

March 22, 2023

Ms. Cindy Koepke Hydrogeologist Wisconsin Department of Natural Resources 3911 Fish Hatchery Road Fitchburg, WI 53711

Subject: Refuse Hideaway Landfill

February 2023 Operation Monitoring and Maintenance Activities

Dear Cindy:

TRC completed the following operation, monitoring, and maintenance activities and system troubleshooting at the Refuse Hideaway Landfill (the Site) in Middleton, WI in February 2023.

- February 7, 2023 Gas Probe Monitoring
- February 27, 2023 Monthly Site Inspection

Electrical Upgrades

TRC is working with an electrical subcontractor to restore electrical service to the Site to allow for system operation.

Gas Extraction System

The gas extraction system (GES) was restarted in October 2022 and was operated until December 15, 2022 when an overvoltage fault was observed and the system was shut down until the electrical service to the Site is repaired.

Perimeter gas probe monitoring was conducted at the site on February 7, 2023.

Field data from system and gas probe monitoring is included in the attachments.

Leachate Extraction System

The leachate extraction system remained off during the month of February due to the lack of electrical service to the Site.

The leachate tank level was gauged during the February 27, 2023, Monthly Site Inspection and contained 96.25 inches of leachate.

Cap Inspection

Due to snow cover, TRC was unable to conduct a monthly inspection of the landfill cap and stormwater conveyance features in February 2023.

Monitoring results collected during the site visits completed in February 2023 are attached.

Ms. Cindy Koepke Wisconsin Department of Natural Resources March 22, 2023 Page 2

Indrew M. Stehn

If you have any questions, please contact me at astehn@trccompanies.com or 608-807-8112.

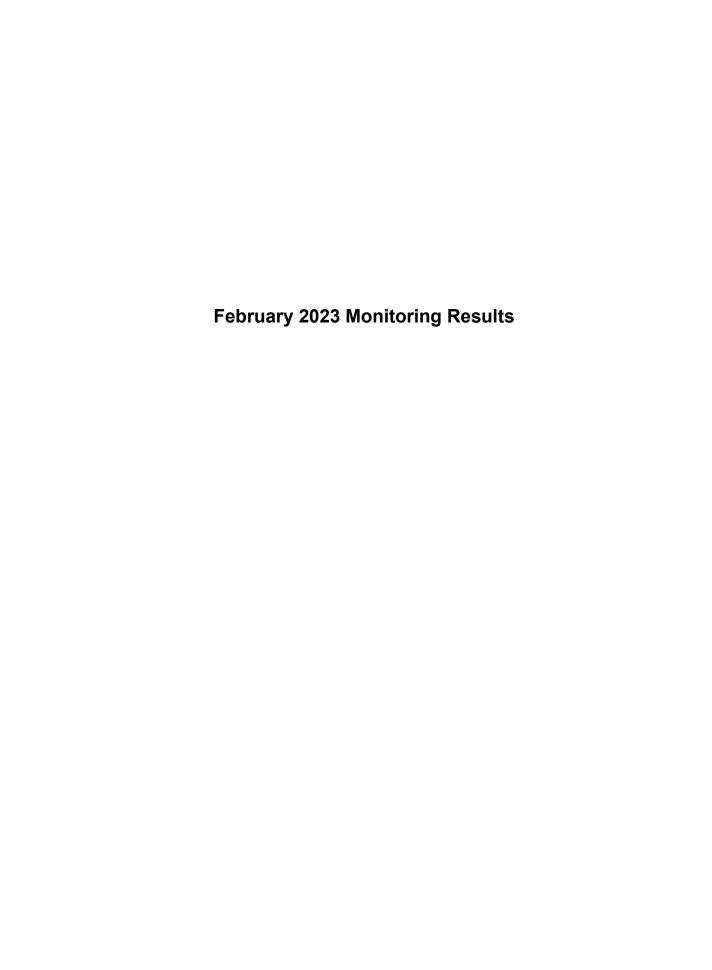
Sincerely,

TRC

Andrew Stehn, PE Project Manager

Attachments: February 2023 Monitoring Results





REFUSE HIDEAWAY LANDFILL GAS PROBE MONITORING FORM

| TECHNICIAN(S): | J. Roelke | DATE: | 2/ 7 /2023 |
|-----------------------|----------------------------|------------------------------|----------------------|
| | | START TIME: | 9:45 AM |
| | | END TIME: | 3:00 PM |
| GAS/INSTRUMENT TYPE: | GEM 2000 | | |
| SERIAL NO.: | 11668 | WEATHER CONDITIONS: | cloudy |
| DATE LAST CALIBRATED: | 2/7/2023 | TEMPERATURE: | 35 °F |
| METHOD: | Standard Calibration Gases | BAROMETRIC PRESSURE & TREND: | 29.97 in. Hg, rising |
| PRESS INSTRUMENT : | Manometer | GROUND CONDITIONS: | frozen |
| | | | |

| GAS PROBE NAME | Time | PRESSURE (in. WC) | METHANE (% LEL) | METHANE (%, by vol.) | CARBON DIOXIDE (%, by vol.) | OXYGEN (%, by vol.) | COMMENTS |
|----------------|-------|----------------------|--------------------|-------------------------|-----------------------------------|------------------------|-----------------------------------|
| GP-1D | 10:11 | 0.0 | 0.0 | 0.0 | 1.4 | 19.7 | (2) |
| GP-1S | 10:13 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 | (2) |
| GP-2D | 10:16 | 0.0 | 0.0 | 0.0 | 0.6 | 20.4 | (1) |
| GP-2S | 10:18 | -0.05 | 0.0 | 0.0 | 0.8 | 20.1 | (1) |
| GP-3 | 10:21 | 0.0 | 46 | 2.3 | 3.9 | 15.4 | (1) |
| GP-4 | 10:27 | -0.01 | 0.0 | 0.0 | 2.5 | 19.8 | (1) |
| GP-5 | 10:30 | 0.0 | 0.0 | 0.0 | 0.8 | 20.1 | (2) |
| GP-6 | 10:36 | 0.0 | 0.0 | 0.0 | 0.2 | 19.8 | (1) |
| GP-7 | 10:43 | 0.0 | 0.0 | 0.0 | 1.6 | 19.7 | (2) |
| GP-8 | 10:51 | 0.0 | 0.0 | 0.0 | 2.2 | 19.8 | (2) |
| GP-9 | 10:55 | 0.0 | 0.0 | 0.0 | 1.5 | 19.7 | (1) |
| GP-10 | 10:59 | 0.0 | 0.0 | 0.0 | 1.5 | 19.8 | (1) |
| GP-11D | 11:08 | 0.0 | 0.0 | 0.0 | 0.0 | 20.6 | (2) |
| GP-11S | 11:10 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 | (2) |
| GP-12D | 11:15 | 0.0 | 70 | 3.5 | 4.0 | 16.8 | (1) Stable readings at 2 minutes. |
| GP-12S | 11:18 | 0.0 | 0.0 | 0.0 | 1.2 | 19.8 | (1) |
| GP-13D | 11:22 | 0.0 | 0.0 | 0.0 | 0.2 | 20.6 | (2) |
| GP-13S | 11:24 | 0.0 | 0.0 | 0.0 | 0.4 | 20.3 | (2) |

| GAS PROBE NAME | Time | PRESSURE (in. WC) | METHANE (% LEL) | METHANE (%, by vol.) | CARBON DIOXIDE (%, by vol.) | OXYGEN (%, by vol.) | COMMENTS |
|-------------------------|-------|----------------------|--------------------|-------------------------|-----------------------------------|------------------------|----------|
| GP-16D | 11:41 | -0.03 | 0.0 | 0.0 | 9.2 | 6.5 | (2) |
| GP-16S | 11:43 | 0.0 | 0.0 | 0.0 | 1.0 | 19.0 | (2) |
| GP-17D | 11:34 | 0.0 | 0.0 | 0.0 | 1.8 | 18.7 | (1) |
| GP-17M | 11:36 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 | (1) |
| GP-17S | 11:38 | 0.0 | 0.0 | 0.0 | 0.4 | 20.5 | (1) |
| GP-18D | 11:50 | -0.08 | 0.0 | 0.0 | 0.0 | 20.8 | (2) |
| GP-18M | 11:52 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 | (2) |
| GP-18S | 11:54 | 0.0 | 0.0 | 0.0 | 0.2 | 20.6 | (2) |
| GP-19 ⁸⁵⁻¹⁰⁰ | 12:40 | -0.03 | 0.0 | 0.0 | 1.9 | 18.5 | (1) |
| GP-19 ⁵⁰⁻⁷⁰ | 12:42 | 0.0 | 0.0 | 0.0 | 2.4 | 17.7 | (1) |
| GP-19 ²⁵⁻⁴⁰ | 12:44 | 0.0 | 0.0 | 0.0 | 2.8 | 17.1 | (1) |
| GP19 ²⁻¹⁵ | 12:46 | 0.0 | 0.0 | 0.0 | 2.5 | 17.8 | (1) |
| GP-20 ⁸⁵⁻¹⁰⁰ | 12:31 | -0.06 | 0.0 | 0.0 | 0.8 | 19.7 | (2) |
| GP-20 ⁵⁰⁻⁷⁰ | 12:33 | 0.0 | 0.0 | 0.0 | 1.5 | 19.0 | (2) |
| GP-20 ²⁵⁻⁴⁰ | 12:35 | 0.0 | 0.0 | 0.0 | 1.8 | 18.5 | (2) |
| GP-20 ²⁻¹⁵ | 12:37 | 0.0 | 0.0 | 0.0 | 1.5 | 18.8 | (2) |
| GP-21 ⁸⁵⁻¹⁰⁰ | 12:23 | -0.15 | 0.0 | 0.0 | 0.4 | 20.3 | (2) |
| GP-21 ⁵⁰⁻⁷⁰ | 12:25 | -0.06 | 0.0 | 0.0 | 1.0 | 19.8 | (2) |
| GP-21 ²⁵⁻⁴⁰ | 12:27 | -0.04 | 0.0 | 0.0 | 0.0 | 20.8 | (2) |
| GP-21 ²⁻¹⁵ | 12:29 | 0.0 | 0.0 | 0.0 | 0.9 | 20.0 | (2) |
| GP-22 ⁸⁵⁻¹⁰⁰ | 12:51 | -0.04 | 0.0 | 0.0 | 2.2 | 19.1 | (2) |
| GP-22 ⁵⁰⁻⁷⁰ | 12:53 | -0.06 | 0.0 | 0.0 | 1.1 | 20.0 | (2) |
| GP-22 ²⁵⁻⁴⁰ | 12:55 | 0.0 | 0.0 | 0.0 | 1.4 | 19.6 | (2) |
| GP-22 ²⁻¹⁵ | 12:57 | 0.0 | 0.0 | 0.0 | 1.7 | 19.4 | (2) |

| GAS PROBE NAME | Time | PRESSURE (in. WC) | METHANE (% LEL) | METHANE (%, by vol.) | CARBON DIOXIDE (%, by vol.) | OXYGEN (%, by vol.) | COMMENTS |
|-------------------------|-------|----------------------|--------------------|-------------------------|-----------------------------------|------------------------|-------------|
| GP-23 ⁸⁵⁻¹⁰⁰ | 13:02 | -0.02 | 0.0 | 0.0 | 0.0 | 20.8 | (2) |
| GP-23 ⁵⁰⁻⁷⁰ | 13:04 | -0.03 | 0.0 | 0.0 | 0.0 | 20.8 | (2) |
| GP-23 ²⁵⁻⁴⁰ | 13:06 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 | (2) |
| GP-23 ²⁻¹⁵ | 13:08 | 0.0 | 0.0 | 0.0 | 2.4 | 18.4 | (2) |
| GP-24 ⁸⁵⁻¹⁰⁰ | 13:13 | -0.07 | 0.0 | 0.0 | 0.0 | 20.8 | (2) |
| GP-24 ⁵⁰⁻⁷⁰ | 13:15 | -0.09 | 0.0 | 0.0 | 0.4 | 20.4 | (2) |
| GP-24 ²⁵⁻⁴⁰ | 13:17 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 | (2) |
| GP-24 ²⁻¹⁵ | 13:19 | 0.0 | 0.0 | 0.0 | 0.3 | 20.4 | (2) |
| GPW-1D | 14:37 | -0.79 | 0.0 | 0.0 | 0.0 | 20.8 | (1) |
| GPW-1M | 14:39 | -0.71 | 0.0 | 0.0 | 0.0 | 20.8 | (1) |
| GPW-1S | 14:41 | 0.0 | 0.0 | 0.0 | 1.1 | 19.7 | (1) |
| G-1D | 10:03 | -0.06 | 0.0 | 0.0 | 0.0 | 20.8 | (1) |
| G-1S | 10:05 | -0.04 | 0.0 | 0.0 | 0.1 | 20.7 | (1) |
| G-2D | 11:27 | -0.02 | 0.0 | 0.0 | 0.0 | 20.8 | (1) |
| G-2S | 11:29 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 | (1) |
| G-5 | 10:48 | 0.0 | 0.0 | 0.0 | 1.3 | 19.7 | (1) |
| G-6 | 9:56 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 | (1) |
| G-8 | 12:17 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 | (1) |
| G-9 | 12:04 | 0.0 | 0.0 | 0.0 | 2.1 | 16.5 | (1) |
| G-10 | 13:27 | -0.82 | 0.0 | 0.0 | 0.0 | 20.8 | (1) |
| Speedway Office | 10:07 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 | Open to ATM |

NOTES:

(1); Locked probe casing.(2): Probe is above casing and cannot be locked.(3): No cap for probe casing and cannot be locked.

Key:

Shallow or 2'-15' Medium or 25'-40' Deep or 50'-70' 85'-100'

Entered by: J. Roelke 3/20/2023 Checked by: T. Perkins 3/20/23

Monthly System Inspection Log Landfill Gas Extraction and Leachate Pump System WDNR - Refuse Highway Landfill Middleton, Wisconsin

| TRC Operato | r Name: John Roelke | | | | |
|-------------|---------------------|---------------|-------|----------------|-------|
| Date: | 2/27/2023 | Arrival Time: | 13:27 | Departure Time | 13:57 |

| Г | Site Conditions | Initial ¹ | Final ² | E | quipment |
|---|----------------------------|---------------------------|--------------------|-----------------------|----------------------------|
| Г | Weather Conditions: | Light rain | - | Gas/Instrument Type: | GEMS 2000 |
| | Ground Condition: | Frozen ground, snow cover | - | Serial Number: | 11668 |
| | Barometric Pressure: | 29.15 in Hg | - | Date Last Calibrated: | NA |
| | Barometric Pressure Trend: | Falling | - | Method: | Standard field calibration |
| | Temperature: | 38F | - | Pressure Instrument: | Dwyer Series 475 Manometer |

| · | emperature. | | 301 | | riessure ilistrume | it. Dwyer series | 473 Manometer |
|-------------------|----------------|----------------------|---|--------------------------|--------------------|------------------------------------|---------------------|
| | | | | | | | |
| | | | Landfill Gas Extrac | tion System ³ | | | |
| System | Location | Tag # | Equipment Description | Set Point | Typical Range | Initial Field Reading ¹ | Final Field Reading |
| | | | Amperage | - | 3 - 4 amps | NM | NM |
| | Remote | | Speed | - | 1800 - 1900 rpm | NM | NM |
| Diamer Mater | | CUC DID 201 | Frequency | - | 30 - 35 Hz | NM | NM |
| Blower Motor - | HMI | GHS-BLR-301 | Amperage | - | 3 -4 amps | NM | NM |
| | HMI | 1 | Speed | - | | NM | NM |
| | HMI | 1 | Hours | - | - | NM | NM |
| lower Operating (| (YES). Note ex | cessive noise or iss | ues observed. | | | | |
| | HMI | PT-301 | Blower Inlet Vacuum | 7 in. w.c. | 7 in. w.c. | NM | NM |
| | HMI | TE-301 | Blower Inlet Temperature | - | 50 - 90 °F | NM | NM |
| | Local | GHS-PI-301 | Blower Inlet Vacuum | 7 in. w.c. | 7 in. w.c. | NM | NM |
| | Local | GHS-TI-301 | Blower Inlet Temperature | - | 50 - 90 °F | NM | NM |
| Blower Inlet | | | Gas Composition - % Methane | - | | NM | NM |
| | | | Gas Composition - % CO2 | - | | NM | NM |
| | Local | Sample Port | Gas Composition - % Oxygen | - | | NM | NM |
| | | | Gas Composition - % Balance | - | | NM | NM |
| | Local | GHS-PDI-301 | Demister Differential Pressure | - | 1-2 in w.c | NM | NM |
| Demister | Local | | Slight Glass: Liquid Present | - | - | NM | NM |
| | HMI | LS-701 | Level Indication | - | - | NM | NM |
| | HMI | PT-302 | Blower Outlet Flow Pressure | - | - | NM | NM |
| | HMI | TE-302 | Blower Outlet Temperature | - | 50 - 90 °F | NM | NM |
| | HMI | PDT-301 | Blower Outlet Flow Differential Pressure | - | 1-2 in w.c | NM | NM |
| | HMI | - | Blower Outlet Flow Rate | - | 180 - 190 scfm | NM | NM |
| | Local | GHS-PI-302 | Blower Outlet Flow Pressure | - | - | NM | NM |
| Blower Outlet | Local | GHS-TI-302 | Blower Outlet Temperature | - | 50 - 90 °F | NM | NM |
| | 2000. | 01.5 11 502 | Gas Composition - % Methane | - | 30 30 1 | NM | NM |
| | | | Gas Composition - % CO2 | - | | NM | NM |
| | Local | Sample Port | Gas Composition - % Oxygen | - | | NM | NM |
| | | | Gas Composition - % Balance | - | | NM | NM |
| | Local | North | North Branch Vacuum | - | 6 - 7 in w.c. | NM | NM |
| | Local | North | Valve Position | 6 turns open /6 | 6 turns open | NM | NM |
| | 2000. | | Gas Composition - % Methane | - | o tarris open | NM | NM |
| | | North Sample | Gas Composition - % CO2 | _ | | NM | NM |
| | Local | Port | Gas Composition - % Oxygen | _ | | NM | NM |
| | | - 1010 | Gas Composition - % Balance | - | | NM | NM |
| | Local | Central | Central Branch Vacuum | _ | 6 - 7 in w.c. | NM | NM |
| | Local | Central | Valve Position | _ | 6 turns open | NM | NM |
| | Local | Central | Gas Composition - % Methane | _ | o turns open | NM | NM |
| Branch Headers | | Central | Gas Composition - % CO2 | _ | | NM | NM |
| | Local | Sample Port | Gas Composition - % Oxygen | | | NM | NM |
| | | Juniple Fort | Gas Composition - % Oxygen | - | | NM | NM |
| | Local | South | South Branch Vacuum | _ | 6 - 7 in w.c. | NM | NM |
| | Local | South | Valve Position | - | 6 turns open | NM | NM |
| | Local | Joutil | Gas Composition - % Methane | - | o turns open | NM | NM |
| | | South Sample | Gas Composition - % CO2 | - | | NM | NM |
| | Local | Port | Gas Composition - % CO2 Gas Composition - % Oxygen | - | | NM | NM |
| | ĺ | FUIL | Gas Composition - % Oxygen Gas Composition - % Balance | + - | | NM | NM |
| | l | | Gas Composition - % Balance | - | | IVIVI | IVIVI |

| | Ai | r Compress | or System ^{3,5} | " - AIR CON | /IPRESSOR | SYSTEM OFFLIN | E | | |
|--|---|--------------------|--------------------------|----------------|---------------------|---------------|------------------------------|---------------|----------|
| | | Pres | sure Set Poin | ts | | | Condensate Set | Points | |
| Operational Settings | Tank Low (psi) | Tank High (psi) | Well Field (psi) | On (min.) | Off (min.) | Open (sec.) | Closed (min.) | Test O | peration |
| | | | | NOT OPER | ATING | | | (ye | s/no) |
| Air Dryer System ⁴ - A | AIR DRYER OFFLI | INE | | Electr | ical Status | | HMI Heat | er/Air Condit | tioner |
| System Operation | nal: | NA | 3-Phas | e Power Indi | cator: | <u>3</u> of 3 | Operational | 1 | ⁄es |
| Condensate Drain Ope | erational: | NA | | GFI 1 Status: | | GREEN | Temperature | | 44 |
| Alarm Indicto | r: | NA | | GFI 2 Status: | | GREEN | Filter Cleaned | | No |
| Condenser Clear | ned²: | No | | | | Leachate Tank | /Loadout | | |
| Dew Point | Indicator: | | Liqu | id Level (inch | ies): | 96.25 | V | isual Check: | |
| | | | Contact W | /DNR if level | is above | 71 inches | · Evidence of Tank | Overflow: | No |
| -5777 | | | Leak Dete | ction Test Co | mpleted: | (yes/no) | ·Inspect concret | e pad and st | orm sewe |
| 00000000000000000000000000000000000000 | Indicate which bars a red (R) and note | | Overfil | Float Func | tional [′] | (yes/no) | for damage or ba | ackup | |
| | red (R) and note (| (r) ii iiasiiiig. | | | | Exhaust St | ack | | |
| | | | Drain Stac | k Sump (vol. | removed) | 0 gal | Stack Condition ⁶ | | Good |

- 1. Initial site conditions represents readings collected upon arrival to the site and initial field readings are collected prior to the landfill balancing.
- 2. Final site conditions represents readings collected upon departure from the site and final field readings are collected following the landfill balancing.
- $\textbf{3. Check all air lines and gas extraction lines for leaks during each site \textit{visit. Drain inline air filters and replace as needed.}\\$
- 4. Air Dryer Clean the condenser monthly using an air jet (max. 2 bar / 30 psig) inside out. Make sure not to damage the aluminum lamellae of the cooling package.
- 5. On a quarterly basis change the oil and check/clean the air filters and intercoolers for the air compressor.
- ${\it 6. Inspect mounting brackets and bolts for the air compressor and \it effluent stack for tightness.}$
- 7. Test overfill float operation on a monthly basis.

Comments/Notes: NM - Not Measured

Blower offline. Heat trace is working. No balancing of gas extraction wells. Blower 301, over voltage fault/3210 on Dec. 15 at 02:53. Shut off breaker to blower 301.

Data Entered By: T. Perkins 3/20/2023 Checked By: J. Roelke 3/20/2023

| ote: Photograph all issues encountered during inspection of the Seep which traffic to grave Indaways, avoid driving on the landfill surface the landfill surface covered in snow (I/N)? Yes spect the landfill surface when not covered in snow. Describe the condition and any issues observed for each category below: up integrity: up integrity: up integrity: undition of drainage ways: undition of drainage ways: undition of drainage ways: undition of spection - Snow cover. detert of vegetation cover: undition of spection - Snow cover. gnificant erosion: unspection - Snow cover. gnificant erosion: unspection - Snow cover. getation die-off: unspection - Snow cover. lapeated erosion: unspection - Snow cover. lapeated erosion, blockages, and vegetation, describe and note any issues: |
|--|
| the landfill surface covered in snow (Y/N)? Yes spect the landfill surface when not covered in snow. Describe the condition and any issues observed for each category below: ap integrity: o inspection - Snow cover. or inspection - Snow cover. detent of vegetation cover: or inspection - Snow cover. gnificant erosion: or inspection - Snow cover. gnificant erosion: or inspection - Snow cover. epecated erosion: or inspection - Snow cover. |
| spect the landfill surface when not covered in snow. Describe the condition and any issues observed for each category below: a pin integrity: o inspection - Snow cover. ondition of drainage ways: o inspection - Snow cover. stent of vegetation cover: o inspection - Snow cover. grificant erosion: o inspection - Snow cover. epeated erosion: o inspection - Snow cover. epeated erosion: o inspection - Snow cover. epeated erosion: o inspection - Snow cover. |
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| o inspection - Snow cover. gnificant erosion: o inspection - Snow cover. epeated erosion: o inspection - Snow cover. egetation die-off: o inspection - Snow cover. laintain surface water conveyances and the sedimentation basin by completing the following: spect drainage ditches for erosion, blockages, and vegetation, describe and note any issues: |
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| egetation die-off: o inspection - Snow cover. laintain surface water conveyances and the sedimentation basin by completing the following: uspect drainage ditches for erosion, blockages, and vegetation, describe and note any issues: |
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| o inspection - Snow cover. |
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| spect sedimentation basin banks and outfalls for erosion, describe and note any issues: |
| o inspection - Snow cover. |
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| leasure the distance between the invert of the codimentation basin outlet and the ten of the sediments assumulated in the basin (Ivus Outlet). |
| leasure the distance between the invert of the sedimentation basin outlet and the top of the sediments accumulated in the basin (June Only!): A |
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Created by: J Roelke 3/20/2023 Checked by: T. Perkins 3/20/2023