WENCK now part of Stantec

Memo

To:	Geoff Strack, PE, Waste Connections	From:	Bradley W Sullivan, PE, Stantec Consulting Services Inc.
File:	Project #B3053-20-517	Date:	January 9, 2021

Reference: WCI Austin Landfill, LLC 2020 Annual CCR Inspection Report

Purpose

This memorandum fulfills the requirements of 40 CFR § 257.84 Inspection Requirements for CCR Surface Landfills, Part b, regarding an annual inspection by a qualified professional engineer.

Background and Applicability

WCI Austin Landfill, LLC owns and operates the WCI Austin Landfill, which is a Class III landfill facility that operates under MPCA Solid Waste Permit SW-514 that was originally issued in 1996. The facility is accessed via 52563 243rd St, Austin, MN, which is located off and State Highway 218, north of Austin, MN.

Landfill cells Phase 1 through 5 are currently permitted. Phase 1 is unlined and has not received any CCR material. Phase 2 is composite lined with a portion constructed as an overlay liner on Cell 1's southern slope. Phase 3 and 4 also have a composite liner. Construction of Phase 4 was completed in 2018 and is immediately north of Phase 3. Currently operations are split between the upper lifts of Phase 2 and 3 and the initial lower lifts of Phase 4. The site began receiving CCR material in June of 2015 and it has all been placed in the various Phases 2 through 4.

See Figure 1 which is a facility site plan.

CCR Landfill Inspection (40 CFR § 257.84)

On October 23, 2020, Brad Sullivan, PE, of Wenck (now part of Stantec) and conducted the on-site inspection of the CCR landfill. As part of the inspection, the following operating and inspection records were reviewed:

- Weekly visual CCR inspections performed by landfill operators;
- Previous annual inspections performed by a licensed professional engineer;
- CCR unit design and construction information required by § 257.73(c)(1) and §257.74(c)(1); and
- Previous periodic structural stability assessments required under § 257.73(d).

Landfill Cell Design

In general, the facility's landfill cell embankments were constructed using on-site and imported borrow materials. A typical perimeter section, taken from the Cell 2, Phase 2 Construction Documentation Report, prepared by CRA in November, 2012 is shown below.

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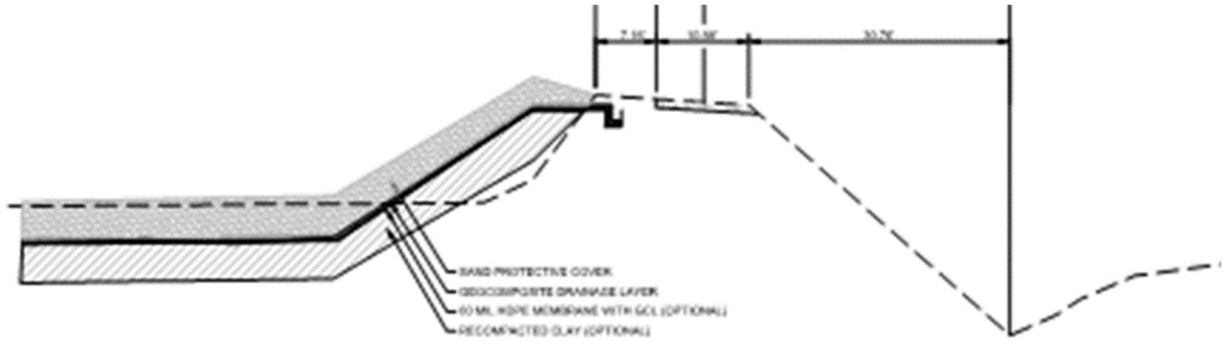

Typical Landfill Berm Detail

During the inspection, no signs of landfill cell embankment distress, no signs of waste slope instability, or other CCR landfill issues were observed. The landfill embankments and interim covered slopes were generally in good condition with a well-established vegetation cover and no signs of significant erosion.

Photos were taken during the inspection. Figure 1 presents the photo locations, and Attachment 1 contains a photo log and the photos taken.

CCR Landfill Inspection Report

40 CFR § 257.84, Subpart b.2 requires the following topics in italics be addressed within this report. The requirements are shown in italics with the response immediately afterwards for each item.

(i) *Any changes in geometry of the impounding structure since the previous annual inspection;*

Phase 4 is the most recently constructed landfill cell, which was completed in 2018. The northern limit of the expansion is terminated with "rain flap" with the primary liner running out for future connection. The east and west embankments appeared per the Record Drawings.

There were no apparent changes to the embankment geometry of Cells 1, 2, 3, or 4 when compared to the permit drawings or the past inspection reports. This year's annual aerial photogrammetry survey was performed on October 28, 2020, which the estimated in-place volume is based on. A comparison 2020 and 2019 aerial survey

confirm that the embankment and slope topography is substantially unchanged with no significant movement. The 2020 aerial survey is included as Figure 2.

(ii) The approximate volume of CCR contained in the unit at the time of the inspection;

Approximately 65,000 of CCR material was received during between the 2019 and 2020 annual surveys. Therefore, the approximate volume of CCR material contained in the landfill at the time of the inspection is 116,900 cubic yards.

(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 and appurtenant structures; and

None of the following were observed that could indicate structural weakness;

- Signs of slumping or rotational movement;
- Lateral or vertical distortion of the embankment crest;
- Seepage on the outboard slopes; or
- Borrowing or damage due to vectors.

(iv) Any other change(s) which may have affected the stability or operation of the impounding structure since the previous annual inspection.

There were no changes noted that could potentially affect the stability or operation of the landfill berm. Observations in 2020 were consistent with those noted in the previous report.

Notification Requirements

The WCI Austin Landfill is in compliance with the recordkeeping requirements specified in § 257.105(g), the notification requirements specified in § 257.106(g), and the internet requirements specified in § 257.107(g).

Conclusions and Recommendations

The WCI Austin Landfill facility has been constructed and operated in accordance with the facility permit and the CCR regulations. No embankment or waste slope stability issues were observed during the visual inspection.

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40 CFR § 257.83, Subpart b.5 and 40 CFR § 257.84, Subpart b.5 each require that if a deficiency or release is identified during an inspection, the owner or operator must remedy the deficiency or release as soon as feasible and prepare documentation detailing the corrective measures taken. There were no deficiencies or releases related to CCR operations that were identified during the inspection.

The SKB Rosemount Landfill facility has been constructed and operated in accordance with the facility permit and the CCR regulations. No embankment or waste slope stability issues were observed during the visual inspection.

40 CFR § 257.83, Subpart b.5 and 40 CFR § 257.84, Subpart b.5 each require that if a deficiency or release is identified during an inspection, the owner or operator must remedy the deficiency or release as soon as feasible and prepare documentation detailing the corrective measures taken. There were no deficiencies or releases related to CCR operations identified during the inspection.

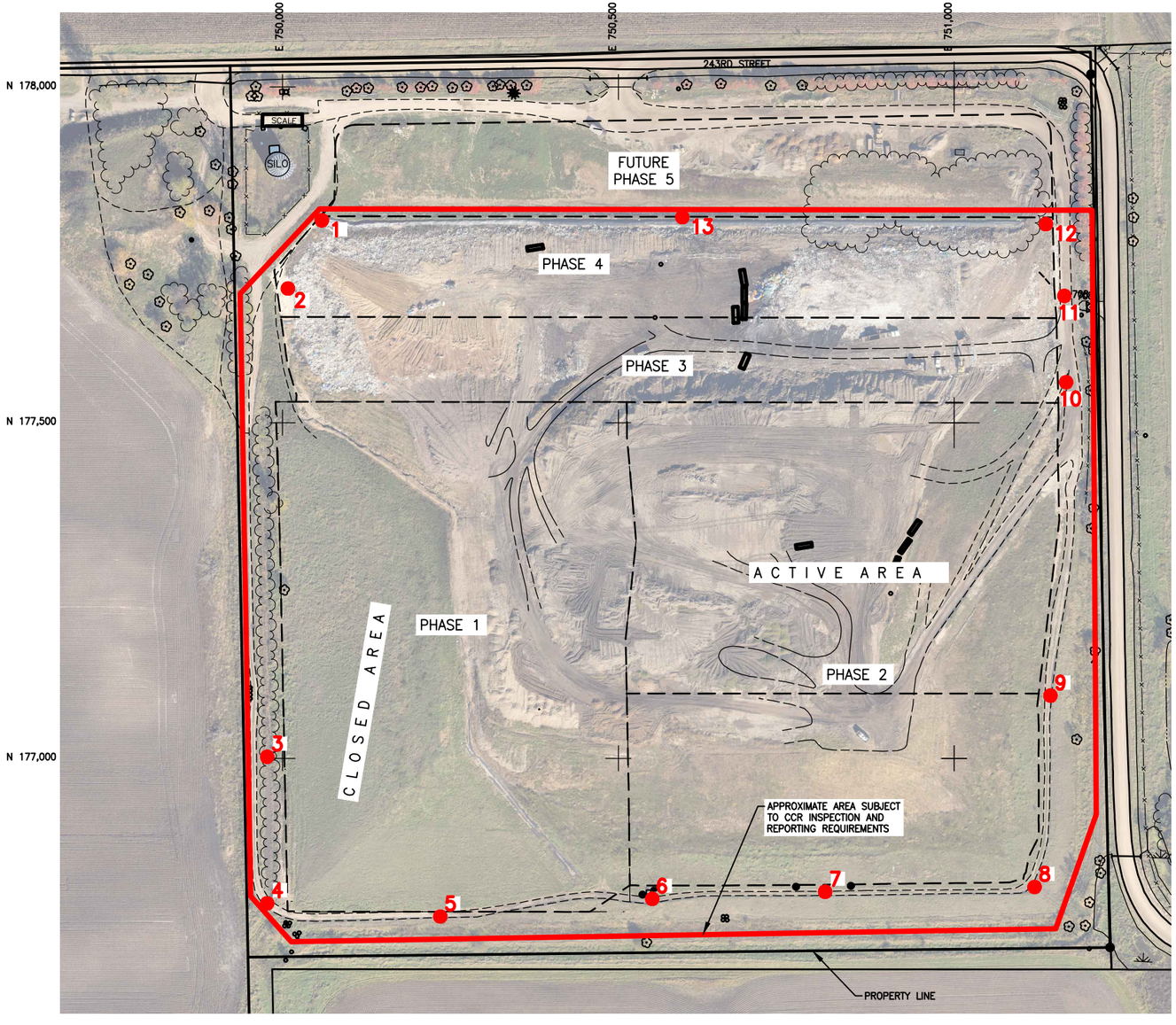
Stantec Consulting Services Inc.

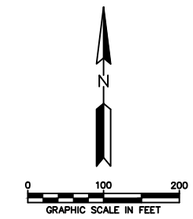
Bradley W. Sullivan, PE
Civil Engineer, Associate

Phone: (763) 479-4259
Cell: (603) 289-5257

I hereby certify that this engineering document was prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under the laws of the State of Minnesota.

Bradley W Sullivan PE # 56502
January 9, 2021





LEGEND

● PHOTO LOCATIONS

NOTE:
BASE MAPPING HAS BEEN UPDATED BY AERIAL SURVEY PROVIDED BY CONTINENTAL MAPPING COMPLETED ON OCTOBER 2019.

REV	DESCRIPTION / REVISION DESCRIPTION	XXX / DWN	XXX / APP	XX/XX/XX / REV DATE
#	DESCRIPTION	XXX	XXX	XX/XX/XX

SEAL

SUB CONSULTANT

PRIME CONSULTANT
WENCK
now part of
Stantec

PROJECT TITLE
2020 CCR INSPECTION REPORT

SKB (AUSTIN) ENVIRONMENTAL, LLC
AUSTIN, MINNESOTA

SHEET TITLE
PHOTO LOCATIONS

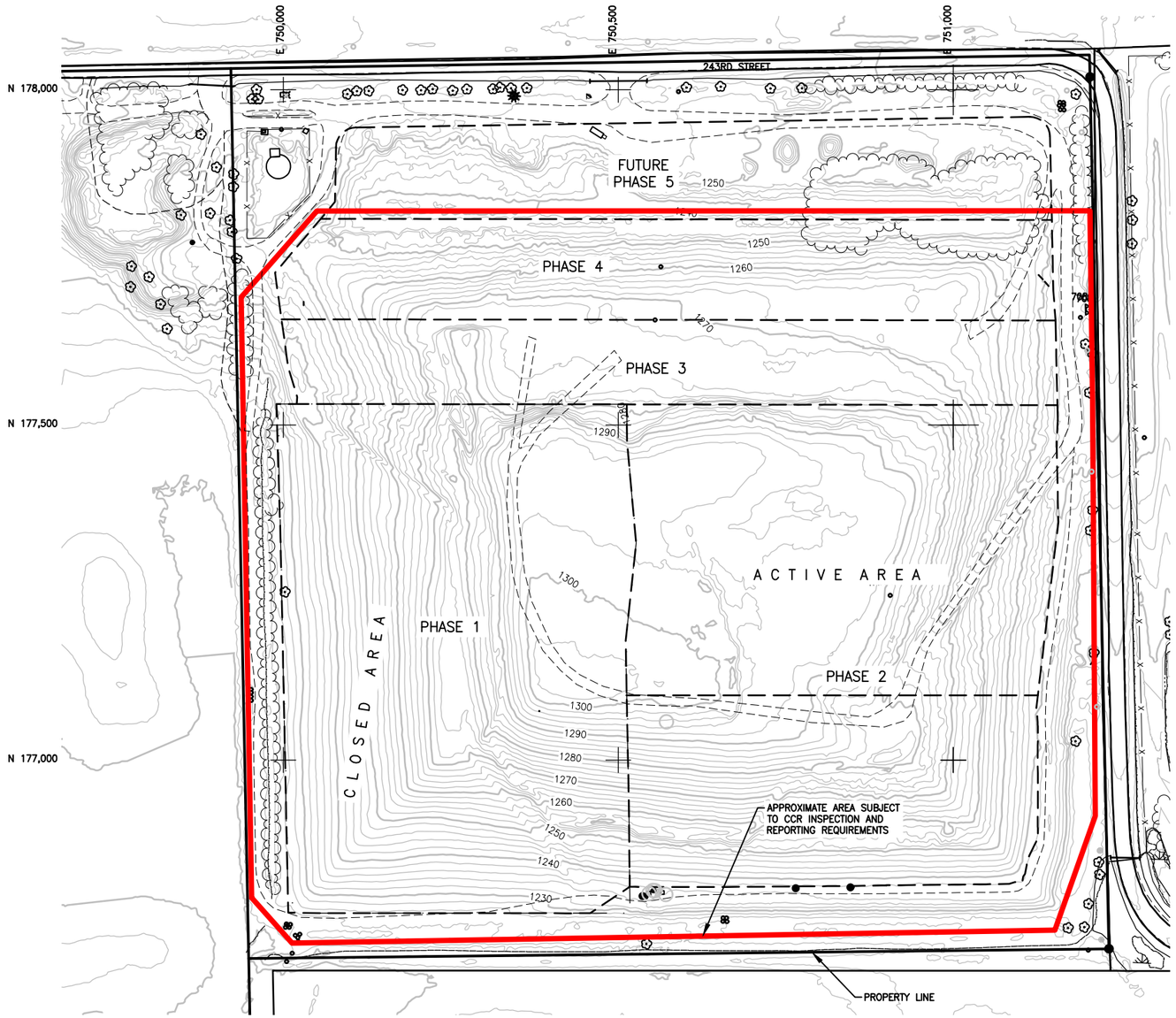
DWN BY	CHK'D	APP'D	DWG DATE
JJT	TJS	BWS	JAN. 2021

SCALE AS NOTED

PROJECT NO. 3053-20-517

SHEET NO. FIGURE 1

REV NO. 0



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GRAPHIC SCALE IN FEET

NOTE:
BASE MAPPING HAS BEEN UPDATED BY AERIAL SURVEY PROVIDED BY CONTINENTAL MAPPING COMPLETED DURING OCTOBER 2019.

BASE MAPPING HAS BEEN UPDATED BY AERIAL SURVEY PROVIDED BY CONTINENTAL MAPPING COMPLETED ON OCTOBER 2020.

#	DESCRIPTION	XXX	XXX	XX/XX/XX
REV	REVISION DESCRIPTION	DWN	APP	REV DATE

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Stantec

PROJECT TITLE
2020 CCR INSPECTION REPORT

SKB (AUSTIN) ENVIRONMENTAL, LLC
AUSTIN, MINNESOTA

SHEET TITLE
SITE MAP

DWN BY	CHK'D	APP'D	DWG DATE	JAN. 2021
JJT	TJS	BWS	SCALE	AS NOTED

PROJECT NO. 3053-20-517
SHEET NO. FIGURE 2
REV NO. 0

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Location 1 – Looking East, Phase 4 Northern Rain Flap

Location 1 – Looking Southwest, Phase 4 Anchor Trench

Location 2 – Looking Northeast, Phase 4 Anchor Trench

Location 2 – Looking South, Phase 3/1 Western Perimeter

Location 3 – Looking South, Toe of Phase 1 Western Slope

Location 3 – Looking North, Toe of Phase 1 Western Slope

Location 4 – Looking North, Toe of Phase 1 Western Slope

Location 4 – Looking East, Toe of Phase 1 Southern Slope

Location 5 – Looking West, Toe of Phase 1 Southern Slope

Location 5 – Looking East, Toe of Phase 1 Southern Slope

Location 6 – Looking West, Phase 1 Southern Slope

Location 6 – Looking West, Phase 1/2 Overlay Liner & Southern Slope

Location 6 – Looking East, Phase 2 Southern Slope

Photo 14: Location 6 – Looking East, Phase 2 Southern Berm

Location 7 – Looking West, Phase 2 Southern Perimeter Road and Slope

Location 7 – Looking West, Phase 2 Southern Berm

Location 7 – Looking East, Phase 2 Southern Perimeter Road and Slope

Location 7 – Looking East, Phase 2 Southern Berm

Location 8 – Looking West, Phase 2 Southern Perimeter Road and Slope

Location 8 – Looking West, Phase 2 Southern Berm

Location 8 – Looking North, Phase 2 Eastern Slope

Location 8 – Looking North, Phase Eastern Berm

Location 9 – Looking South, Phase 2 Eastern Perimeter Road & Slope

Location 9 – Looking North, Phase 2 Eastern Perimeter Road & Slope

Location 9 – Looking South, Phase 2 Eastern Berm

Location 9 – Looking North, Phase 2 Eastern Berm

Location 10 – Looking North, Eastern Perimeter Road

Location 10 – Looking South, Phase 2 Eastern Slope and Interior Access Road Entrance

Location 11 – Looking West, Phase 3/4 Connection, Phase 3 Norther Interior Waste Slope

Photo 30: Location 11 – Looking North, Phase 4 Eastern Anchor Trench

Location 12 – Looking South, Phase 4 Eastern Anchor Trench & Phase 3 Eastern Waste Slope

Location 12 – Looking West, Phase 4 Northern Rain Flap

Location 13 – Looking East, Phase 4 Northern Rain Flap

Location 13 – Looking West, Phase 4 Northern Rain Flap