

## **Attachment D**

# **Landfill Capacity Documentation**



**KING COUNTY SOLID WASTE DIVISION  
CEDAR HILLS REGIONAL LANDFILL CAPACITY**

Disposal Areas		Area 7 <sup>1</sup>	Area 8 <sup>2</sup>	Areas 5 & 6	Total System Capacity
Area Capacity (CY)		--	3,815,609	3,030,000	6,845,609
Area Capacity (tons) @ 1600 lbs/CY		--	3,052,487	2,424,000	5,476,487
Date	Monthly Tonnage <sup>3</sup>	Area 7 Remaining Capacity (tons)	Area 8 Remaining Capacity (tons)	Areas 5 & 6 Remaining Capacity (tons)	Total Remaining Capacity (tons)
October, 2023	9,283	--	3,043,204	2,424,000	5,467,204
November, 2023	69,960	--	2,973,244	2,424,000	5,397,244
December, 2023	67,166	--	2,906,078	2,424,000	5,330,078
January, 2024	71,362	--	2,834,717	2,424,000	5,258,717
February, 2024	71,362	--	2,763,355	2,424,000	5,187,355
March, 2024	71,362	--	2,691,993	2,424,000	5,115,993
April, 2024	71,362	--	2,620,632	2,424,000	5,044,632
May, 2024	71,362	--	2,549,270	2,424,000	4,973,270
June, 2024	71,362	--	2,477,909	2,424,000	4,901,909
July, 2024	71,362	--	2,406,547	2,424,000	4,830,547
August, 2024	71,362	--	2,335,186	2,424,000	4,759,186
September, 2024	71,362	--	2,263,824	2,424,000	4,687,824
October, 2024	71,362	--	2,192,462	2,424,000	4,616,462
November, 2024	71,362	--	2,121,101	2,424,000	4,545,101
December, 2024	71,362	--	2,049,739	2,424,000	4,473,739
January, 2025	72,798	--	1,976,941	2,424,000	4,400,941
February, 2025	72,798	--	1,904,143	2,424,000	4,328,143
March, 2025	72,798	--	1,831,344	2,424,000	4,255,344
April, 2025	72,798	--	1,758,546	2,424,000	4,182,546
May, 2025	72,798	--	1,685,748	2,424,000	4,109,748
June, 2025	72,798	--	1,612,950	2,424,000	4,036,950
July, 2025	72,798	--	1,540,151	2,424,000	3,964,151
August, 2025	72,798	--	1,467,353	2,424,000	3,891,353
September, 2025	72,798	--	1,394,555	2,424,000	3,818,555

**KING COUNTY SOLID WASTE DIVISION  
CEDAR HILLS REGIONAL LANDFILL CAPACITY**

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Date	Monthly Tonnage <sup>3</sup>	Area 7 Remaining Capacity (tons)	Area 8 Remaining Capacity (tons)	Areas 5 & 6 Remaining Capacity (tons)	Total Remaining Capacity (tons)
October, 2025	72,798	--	1,321,757	2,424,000	3,745,757
November, 2025	72,798	--	1,248,958	2,424,000	3,672,958
December, 2025	72,798	--	1,176,160	2,424,000	3,600,160
January, 2026	73,605	--	1,102,555	2,424,000	3,526,555
February, 2026	73,605	--	1,028,949	2,424,000	3,452,949
March, 2026	73,605	--	955,344	2,424,000	3,379,344
April, 2026	73,605	--	881,739	2,424,000	3,305,739
May, 2026	73,605	--	808,133	2,424,000	3,232,133
June, 2026	73,605	--	734,528	2,424,000	3,158,528
July, 2026	73,605	--	660,922	2,424,000	3,084,922
August, 2026	73,605	--	587,317	2,424,000	3,011,317
September, 2026	73,605	--	513,711	2,424,000	2,937,711
October, 2026	73,605	--	440,106	2,424,000	2,864,106
November, 2026	73,605	--	366,501	2,424,000	2,790,501
December, 2026	73,605	--	292,895	2,424,000	2,716,895
January, 2027	73,663	--	219,233	2,424,000	2,643,233
February, 2027	73,663	--	145,570	2,424,000	2,569,570
March, 2027	73,663	--	71,907	2,424,000	2,495,907
April, 2027	73,663	--	--	2,422,245	2,422,245
May, 2027	73,663	--	--	2,348,582	2,348,582
June, 2027	73,663	--	--	2,274,920	2,274,920
July, 2027	73,663	--	--	2,201,257	2,201,257
August, 2027	73,663	--	--	2,127,595	2,127,595
September, 2027	73,663	--	--	2,053,932	2,053,932
October, 2027	73,663	--	--	1,980,269	1,980,269
November, 2027	73,663	--	--	1,906,607	1,906,607
December, 2027	73,663	--	--	1,832,944	1,832,944
January, 2028	74,140	--	--	1,758,804	1,758,804
February, 2028	74,140	--	--	1,684,664	1,684,664

**KING COUNTY SOLID WASTE DIVISION  
CEDAR HILLS REGIONAL LANDFILL CAPACITY**

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Area Capacity (tons) @ 1600 lbs/CY		--	3,052,487	2,424,000	5,476,487
Date	Monthly Tonnage <sup>3</sup>	Area 7 Remaining Capacity (tons)	Area 8 Remaining Capacity (tons)	Areas 5 & 6 Remaining Capacity (tons)	Total Remaining Capacity (tons)
March, 2028	74,140	--	--	1,610,524	1,610,524
April, 2028	74,140	--	--	1,536,385	1,536,385
May, 2028	74,140	--	--	1,462,245	1,462,245
June, 2028	74,140	--	--	1,388,105	1,388,105
July, 2028	74,140	--	--	1,313,965	1,313,965
August, 2028	74,140	--	--	1,239,825	1,239,825
September, 2028	74,140	--	--	1,165,685	1,165,685
October, 2028	74,140	--	--	1,091,545	1,091,545
November, 2028	74,140	--	--	1,017,405	1,017,405
December, 2028	74,140	--	--	943,265	943,265
January, 2029	74,917	--	--	868,348	868,348
February, 2029	74,917	--	--	793,431	793,431
March, 2029	74,917	--	--	718,514	718,514
April, 2029	74,917	--	--	643,598	643,598
May, 2029	74,917	--	--	568,681	568,681
June, 2029	74,917	--	--	493,764	493,764
July, 2029	74,917	--	--	418,847	418,847
August, 2029	74,917	--	--	343,930	343,930
September, 2029	74,917	--	--	269,013	269,013
October, 2029	74,917	--	--	194,096	194,096
November, 2029	74,917	--	--	119,179	119,179
December, 2029	74,917	--	--	44,262	44,262
January, 2030	76,424	--	--	(32,161)	-32161

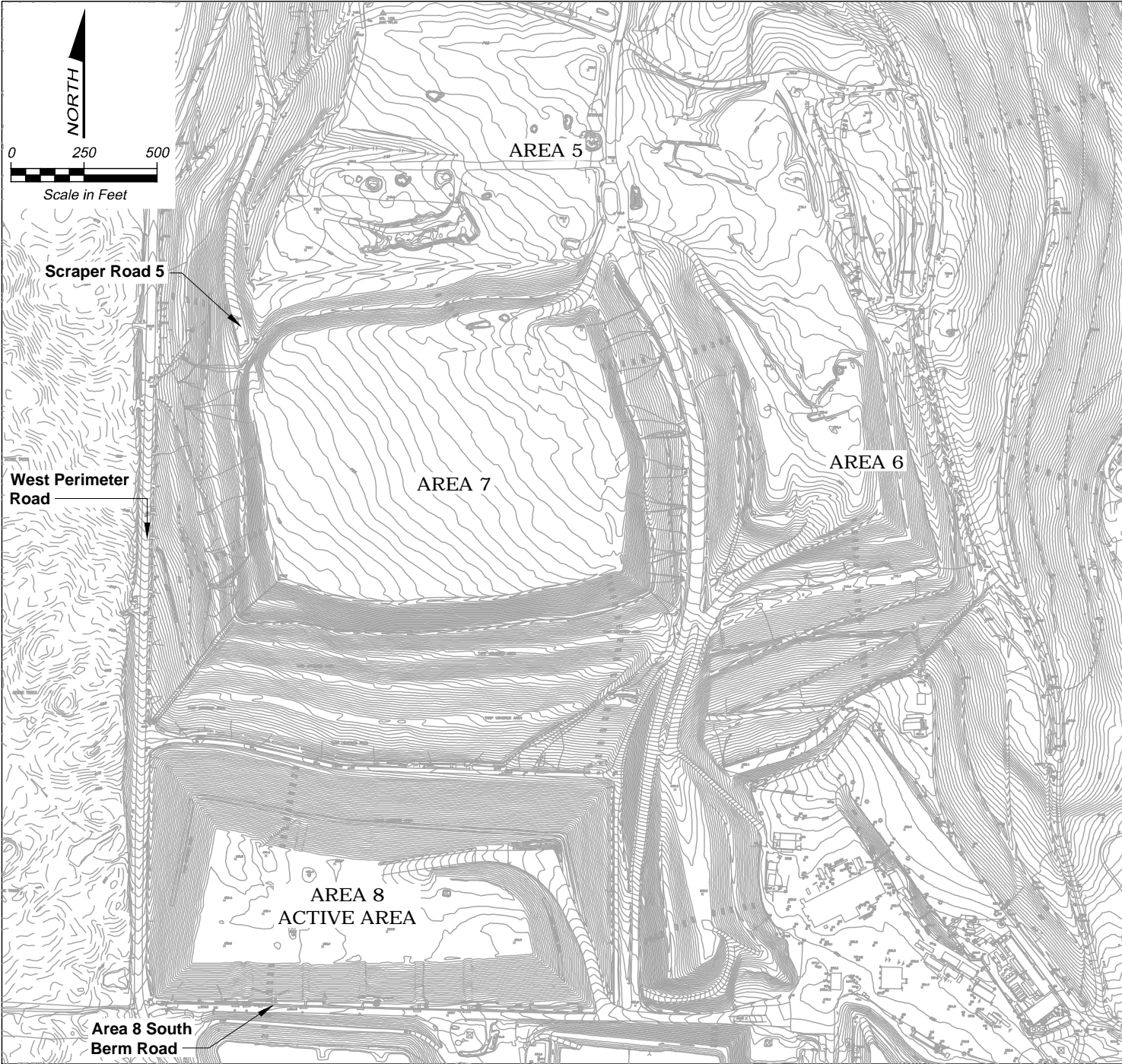
<sup>1</sup> Area 7 stopped receiving waste as of summer of 2019.

<sup>2</sup> Area 8 Capacity: 7,621,000 CY remaining as calculated from October 29th, 2019 aerial. 7,308,417 CY remaining as calculated from February 25th, 2020 aerial. 6,632,616 CY remaining as calculated from November 2nd, 2020 aerial. 6,166,367 CY remaining as calculated from March 31st, 2021 aerial. 5,526,640 CY remaining as calculated from October 19th, 2021 aerial. 4,875,840 CY capacity remaining as of June 1, 2022 aerial flyover. 4,420,703 CY capacity remaining as of November 18, 2022 aerial flyover. 4,001,899 CY capacity remaining as of April 28, 2023. 3,815,609 CY capacity remaining as of October 27, 2023.

<sup>3</sup> Monthly tonnage either actual amounts (Cell B46 in Tonnage Report for each month), or based on February 2023 forecast into future months. Flyovers that occur within the middle of the month prorate the capacity for the remaining tonnage in the same month.



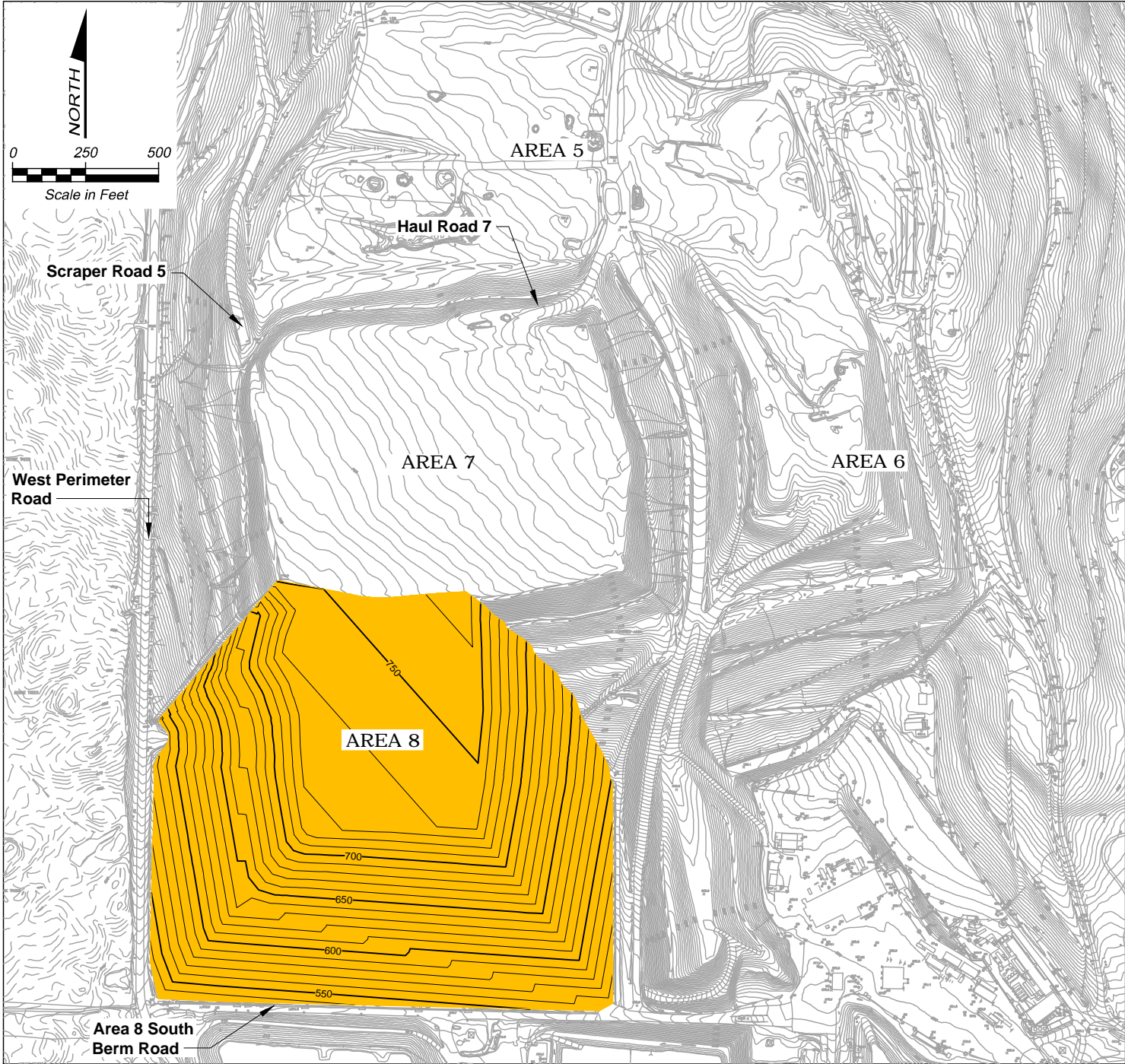
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**EXISTING CONDITIONS**

**THE EXISTING CONDITIONS INCLUDES THE FOLLOWING ELEMENTS:**

- AREA 8 ACTIVE FILLING; 219,000 CY
- FALL 2019 AERIAL, FLOWN OCTOBER 29, 2019



**PROPOSED CONDITIONS**

**AREA 8 TOP DECK WITH CONSTANT 4% SLOPE FROM NE CORNER TO SW CORNER**

**VOLUME:**  
7.84 MCY



1601 Fifth Avenue, Suite 500  
Seattle, WA 98101  
206.505.3400/206.505.3406 (fax)  
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**King County**  
Department of Natural Resources & Parks  
Solid Waste Division

**Cedar Hills Regional Landfill  
Area 8 Proposed Filling**

Figure

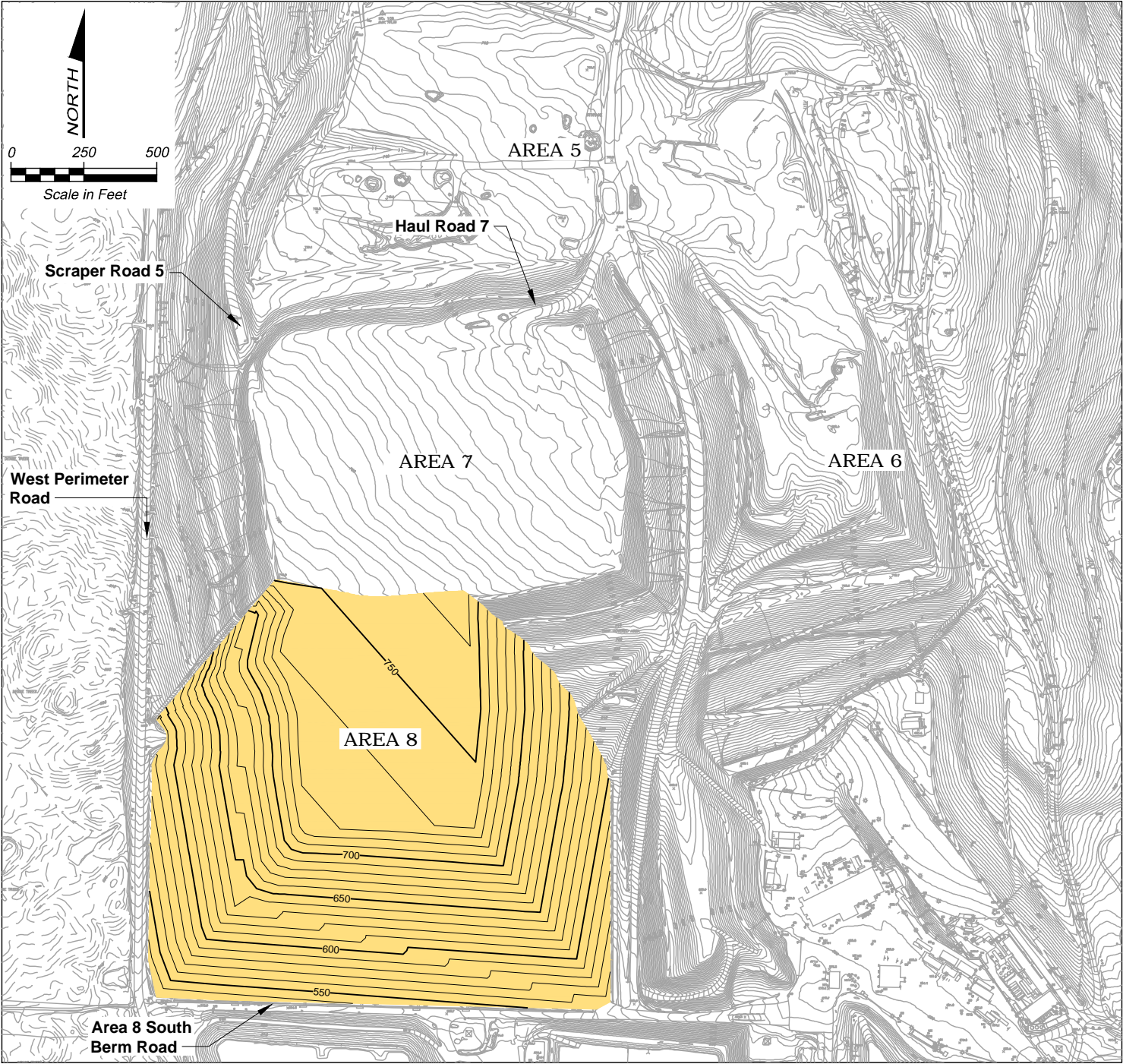
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Date

Apr 2020



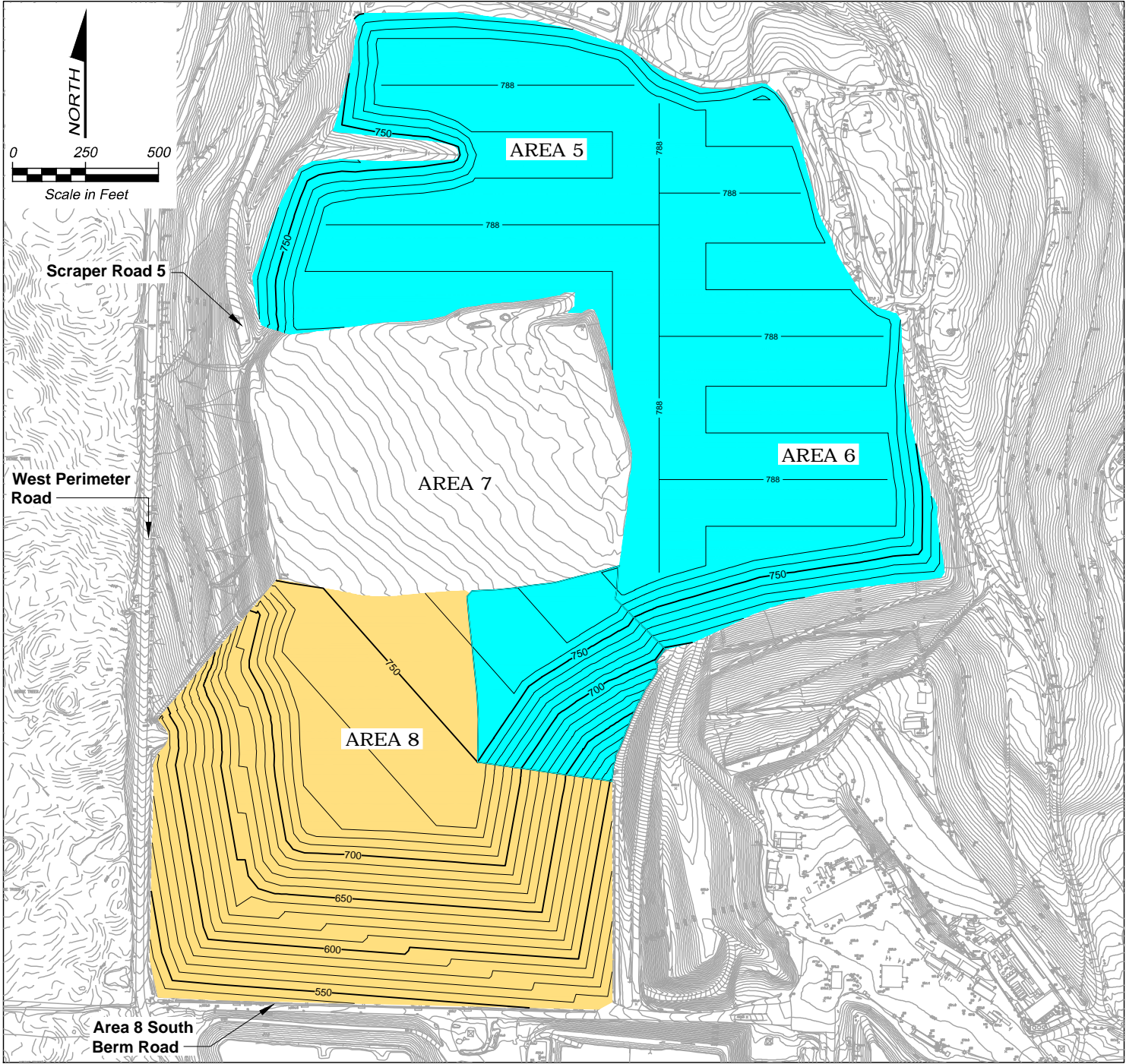
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**EXISTING CONDITIONS**

THE EXISTING CONDITIONS INCLUDES THE FOLLOWING ELEMENTS:

- AREA 8 PROPOSED FULL; 7.84 MCY
- FALL 2019 AERIAL, FLOWN OCTOBER 29, 2019



**PROPOSED CONDITIONS**

AREA 8 TOP DECK WITH WITH CONSTANT 4% SLOPE FROM NE CORNER TO SW CORNER; AREA 5 & 6 TOP DECK

**VOLUME:**

AREA 8: 7.84 MCY  
AREA 5 & 6: 3.03 MCY

**NET VOLUME:**

10,870,000 CY



1601 Fifth Avenue, Suite 500  
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**King County**  
Department of Natural Resources & Parks  
Solid Waste Division

Cedar Hills Regional Landfill  
Area 8 Proposed Filling  
Area 5 & 6 Proposed Filling

Figure

2

Date

Apr 2020



# Volume Report

## Cedar Hills Landfill Maple Valley, WA

*Presented to:*

King County Department of Natural Resources  
Solid Waste Division  
201 South Jackson Street #701  
Seattle, WA 98104

*Submitted by:*



860 McKinley Street  
Eugene, OR 97402

June 1, 2023



Cedar Hills Landfill

Job # 230122

(Volumes Computed TIN surface to TIN surface)

Photo Dates: 18 November 2022 to 28 April 2023

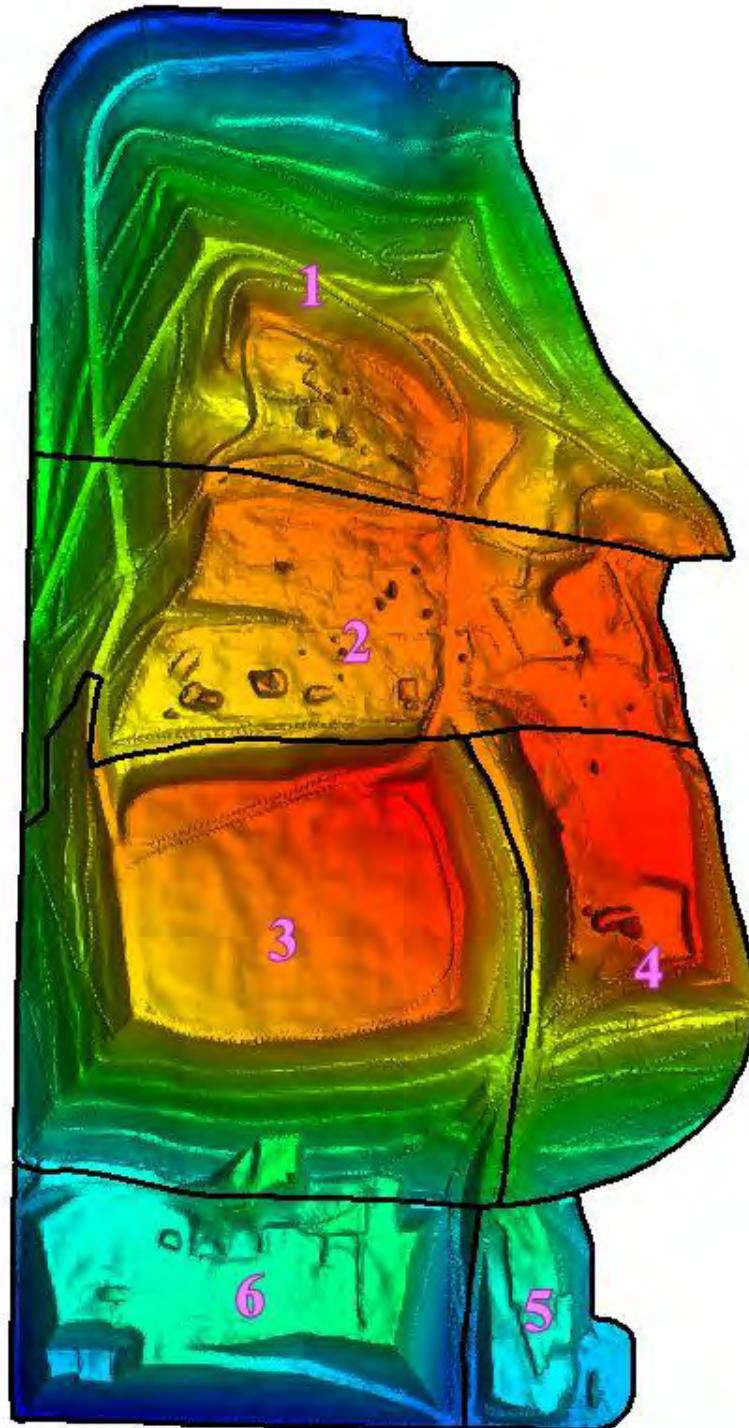
Zone Name	Area (ft <sup>2</sup> )	Volume (ft <sup>3</sup> )			Volume (yd <sup>3</sup> )		
		Cut(-)	Fill(+)	Net	Cut(-)	Fill(+)	Net
1	3,419,429	87,440	91,146	3,706	3,239	3,376	137
2	2,081,940	85,802	407,209	321,407	3,178	15,082	11,904
3	2,956,353	2,414,128	1,433,845	-980,283	89,412	53,105	-36,307
4	1,276,760	42,304	276,638	234,333	1,567	10,246	8,679
5	421,727	64,336	735,116	670,780	2,383	27,227	24,844
6	1,423,185	10,636,551	1,289,430	-9,347,121	393,946	47,757	-346,190

Cedar Hills Landfill  
Volume Comparison from Fall 2022 to Spring 2023  
Isopach Surface



Green = no change  
Yellow-Red = material added  
Blue = material removed

Perspective view (Hill shade): Spring 2023 surface





Perspective view (Hill shade): Fall 2022 surface



# Volume Report

## Cedar Hills Landfill Maple Valley, WA

*Presented to:*

King County Department of Natural Resources  
Solid Waste Division  
201 South Jackson Street #701  
Seattle, WA 98104

*Submitted by:*



860 McKinley Street  
Eugene, OR 97402

December 4, 2023

Cedar Hills Landfill

Job # 230391

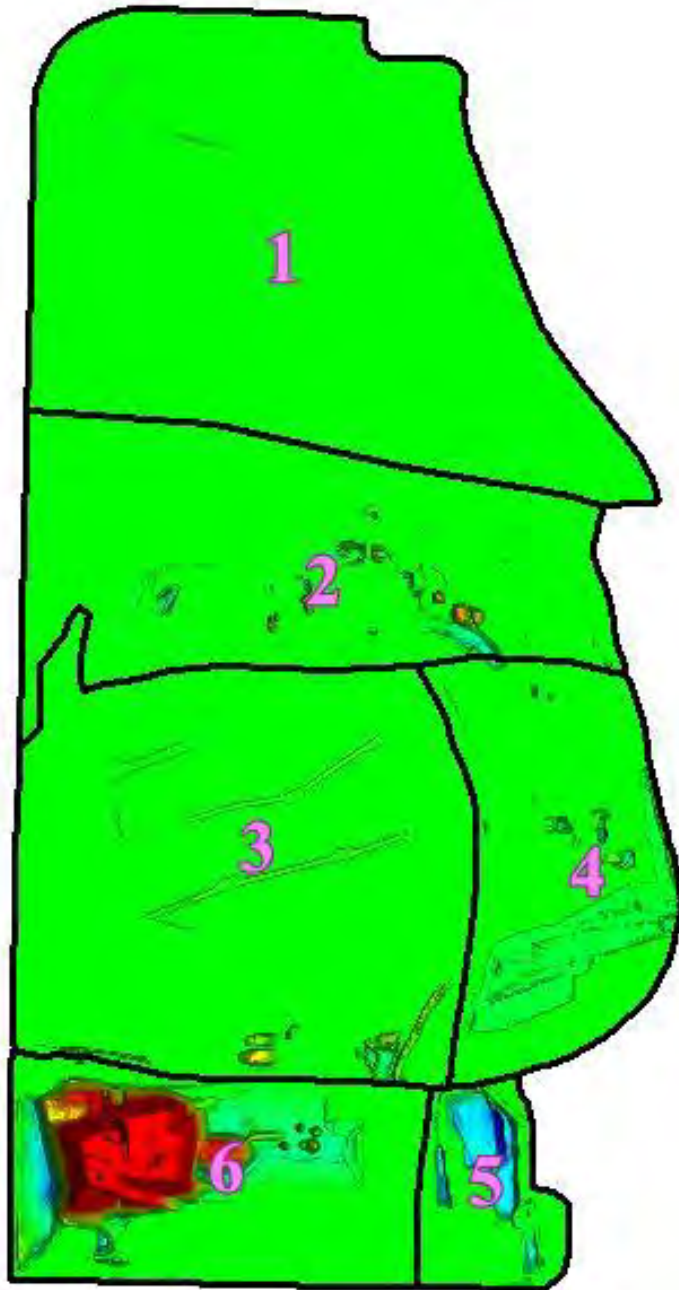
(Volumes Computed TIN surface to TIN surface)

Photo Dates: 01 August 2023 to 27 October 2023

Zone Name	Area (ft <sup>2</sup> )	Volume (ft <sup>3</sup> )			Volume (yd <sup>3</sup> )		
		Cut(-)	Fill(+)	Net	Cut(-)	Fill(+)	Net
1	3,419,429	3,903	6,412	-2,509	145	237	-93
2	2,081,940	97,761	147,617	-49,856	3,621	5,467	-1,847
3	2,956,353	151,176	100,580	50,596	5,599	3,725	1,874
4	1,276,760	12,574	373,674	-361,100	466	13,840	-13,374
5	421,727	3,212	765,182	-761,970	119	28,340	-28,221
6	1,423,185	6,733,089	773,560	5,959,529	249,374	28,650	220,723

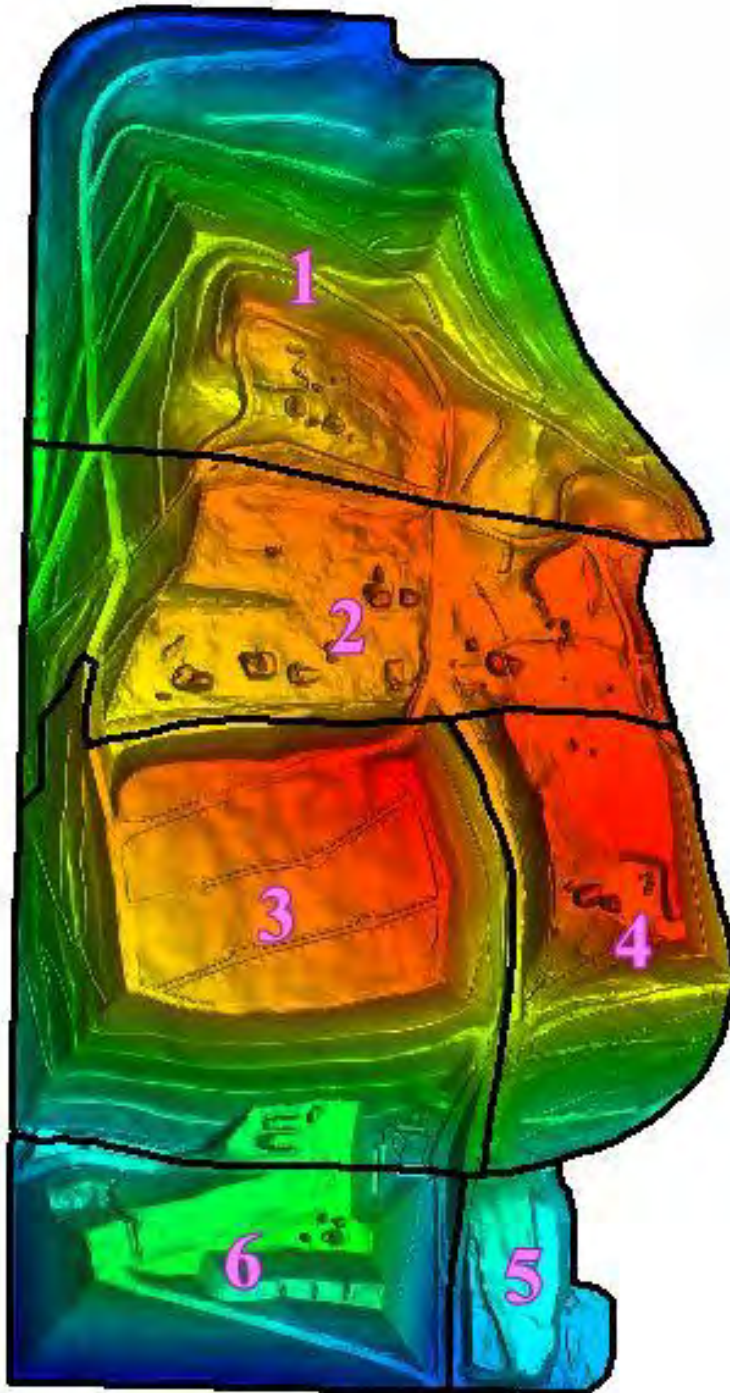


Cedar Hills Landfill  
Volume Comparison from Summer 2023 to Fall 2023  
Isopach Surface



Green = no change  
Yellow-Red = material added  
Blue = material removed

Perspective view (Hill shade): Fall 2023 surface



Perspective view (Hill shade): Summer 2023 surface

