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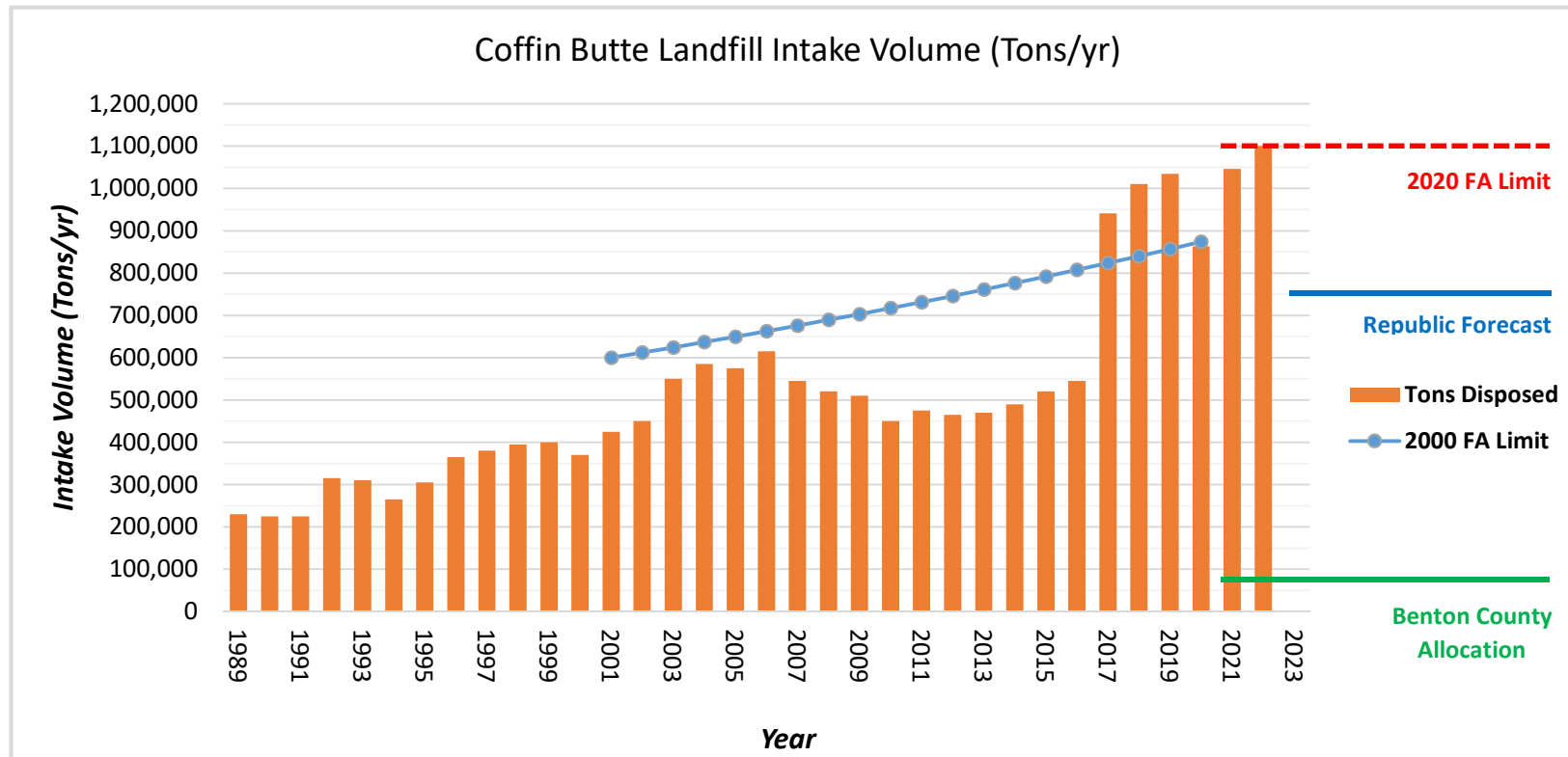
The attached document covers three areas that I believe should be included in the Common Understandings section of the workgroup recommendations document:

1. Coffin Butte intake volume history (graph).
2. Coffin Butte landfill life comparative estimates
3. Summary of the Coffin Butte "Quarry Problem" that is stated by the franchisee to be driving the need for an additional landfill cell.

This document presents basic information on each topic, with comments and questions that may drive further discussion. I would be happy to work with CDD staff and/or the workgroup to verify the underlying data and calculations for formal inclusion in the workgroup document.

Thank you  
Paul Nietfeld

## Coffin Butte: Intake Volume History



- Large-scale industrial operation: 1.1 M Tons/year => 7,000,000 lbs/day, 6 days/week
- Dramatic growth starting in 2017 – *What happened to cause and sustain this?*
- The 2000 Franchise Agreement intake limit was violated in years 2017–2019 – *Why no County action?*
- 2022 volume is estimated from first half 2022 filings with DEQ.
- Recent years show sustained high demand for landfill volume – *Does Republic plan to maintain this level?*
- Even a 5,000,000 cubic yard expansion cell would fill in less than 5 years at the current intake rate

**This plot shows why we (workgroup, staff, administration, the public and the franchisee) are here: Large intake volume in the last 6 years is quickly depleting the available Cell 5 volume.**

## Coffin Butte: Estimate of Remaining Life

### Assumptions:

1. Remaining capacity is 16,066,982 yd<sup>3</sup> at the end of 2022 [17,299,778 yd<sup>3</sup> at end of 2021 per Annual Report – 1.1 MTons @ 0.93T/yd<sup>3</sup> (three year average density per 2021 Annual Report)].
2. Simple estimate - not including daily and intermediate cover, intended to provide general guidance.
3. Density over remaining life assumed to be 0.93T/yd<sup>3</sup>, consistent with the 2021 Annual Report value.

### Landfill life:

<b>Volume</b> (Tons/year)	<b>Operating Life</b> (years, beyond 2022)	<b>Year Capacity is Reached</b>	<b>Notes</b>
75,000	199	2221	Benton County volume
500,000	29.9	2051	Approx. 2008 volume
750,000	19.9	2041	Republic forward estimation volume
1,100,000	13.6	2035	Current rate and 2020 Franchise Agreement cap

## Coffin Butte: The Quarry Problem

### Problem statement:

Per Republic Services, Coffin Butte landfill intake volume is consuming available space at a rate which will outstrip the capacity of the existing cell (Cell 5) in approximately 4 years, about 4 years before quarry mining (to be used for Cell 6) is complete.

### Causes:

- High intake rate (73% Y/Y increase in 2017, continued very high intake from then; why?)
- Lack of planning by franchisee and/or business motivations to maintain high intake even with looming space problem and/or unavoidable or difficult-to-avoid disposal needs. *None of these are the responsibility of Benton County government, staff, or citizens.*
- Slow quarry excavation – approx. 250k yd<sup>3</sup> per year? *Is this additional space actually permitted for landfill?*

### Options:

1. Lower intake volume until Cell 6 is ready (if deficit is ~1M yd<sup>3</sup>, a decrease to about 750,000 Tons/year over the next 4 years should work).
2. Accelerate quarry extraction and stockpile.
3. Write off the additional (unmined) Cell 6 space.
4. Expansion cell in current landfill area, similar to the East and West triangles in 2003.
5. Expansion cell south of Coffin Butte road – effectively establishing a new landfill site.
6. Other(s)?