

From: [Paul Nietfeld](#)
To: [Bromann, Bill](#); [REDICK Daniel](#)
Cc: [Benton County Talks Trash](#)
Subject: Re: DEQ intake data
Date: Wednesday, January 4, 2023 8:46:16 PM

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Bill, Daniel:

Picking this thread back up to address concerns expressed by Daniel in the 1/3/2023 A.1 meeting about discrepancies between the intake volume figures I used for the Coffin Butte Landfill Intake Volume plot (Section 1.C of the draft A.1 report) and values that he had extracted from the Coffin Butte Annual Report ("CBAR") documents.

- The values I used were all extracted from the CBAR files online at <https://www.co.benton.or.us/cd/page/coffin-butte-landfill-and-prc-annual-reports>.
- As noted in the mail above, and as noted in some detail in the A.1 draft report text immediately prior to the Intake Volume plot (Section 1.C), in the case of internal contradictions within a given year's report I am using the intake tonnage total figure shown in the detailed intake breakdown table, wherever that may be located in that particular CBAR, over whatever other value may be quoted in the narrative. I believe this figure is typically the most detailed in the document (in terms of being a sum of discrete, defined components, often contributions from various counties), and will be most consistent with any breakdown of "contribution by county" data that we might present.

I have updated the plot source data table (see below) to include the values from Daniel's plot and the relative "delta" (i.e. ratio between the values I am using and those provided by Daniel). All delta values other than 1.0000 (no difference) are flagged as a cell with gold fill.

Plot Source Data			Alternate Data	
Year	CBAR Volume (Tons)	2000 FA Threshold	Daniel R. Volume (Tons)	Δ CBAR v Daniel
1993	310,648	#N/A	313,572	0.9907
1994	268,472	#N/A	270,645	0.9920
1995	287,932	#N/A	308,843	0.9323
1996	369,835	#N/A	368,704	1.0031
1997	378,919	#N/A	378,887	1.0001
1998	395,751	#N/A	395,751	1.0000
1999	401,408	#N/A	403,679	0.9944
2000	413,493	#N/A	413,493	1.0000
2001	425,723	600,000	426,000	0.9993
2002	453,261	612,000	457,000	0.9918
2003	550,506	624,240	550,360	1.0003

2004	586,076	636,725	589,147	0.9948
2005	580,275	649,459	580,275	1.0000
2006	618,340	662,448	624,875	0.9895
2007	546,996	675,697	546,996	1.0000
2008	528,396	689,211	528,395	1.0000
2009	519,058	702,996	519,058	1.0000
2010	458,590	717,056	458,590	1.0000
2011	482,951	731,397	482,951	1.0000
2012	473,550	746,025	473,550	1.0000
2013	479,160	760,945	479,160	1.0000
2014	499,687	776,164	499,688	1.0000
2015	530,971	791,687	530,971	1.0000
2016	552,979	807,521	552,979	1.0000
2017	941,430	823,671	941,430	1.0000
2018	1,010,879	840,145	1,010,879	1.0000
2019	1,034,934	856,948	1,034,934	1.0000
2020	863,210	874,087	863,210	1.0000
2021	1,046,067	#N/A	1046067	1.0000
2022				
2023				

Comments:

- For all years other than 1995 and 2006 the discrepancy is less than +/- 1%.
- There are no discrepancies in our reporting for years 2007 and later.
- I have reviewed the 1995 and 2006 CBAR files.
- I find that the 1995 report lists 287,000 in two charts (P. 6 and P. 9 of the pdf) while listing 287,932 in the "Actual 1995 Incoming Volume" table (P. 48 of the pdf). I do not see the reference to a volume of 308,843. **Daniel: could you point to the page/table source for the 308,843 figure?**
- I find that the 2006 report lists 624,875 in the summary (P. 2) but "618,339.82" (which I rounded to 618,340) in the detailed table of "Disposal - Total for Year 2006 / Total Tons" (P. 71).

If either of you objects to using the detailed tabular results over the narrative summary value in cases in which these values disagree within a given report please let me know. Otherwise, I propose that we use the values originally established, with the stated caveats in the report.

Thank you
Paul

On Sat, Nov 12, 2022 at 11:05 AM Paul Nietfeld <pnietfeld@gmail.com> wrote:

Hello Bill,

I went through the Coffin Butte Annual Report files available on the Benton County website and updated my chart source data matrix (see below). The "CBAR" column contains the numbers I found in the annual reports, while "Old Volume" contains the figures I had used previously for the table I presented to the workgroup on 9/15/2022.

Year	CBAR Volume (Tons)	Old Volume
1989		230,000
1990		225,000
1991		225,000
1992		315,000
1993	310,648	310,000
1994	268,472	265,000
1995	287,932	305,000
1996	369,835	365,000
1997	378,919	380,000
1998	395,751	395,000
1999	401,408	400,000
2000	413,493	370,000
2001	425,723	425,000
2002	453,261	450,000
2003	550,506	550,000
2004	586,076	585,000
2005	580,276	575,000
2006	618,340	615,000
2007	546,996	545,000
2008	528,396	520,000
2009	519,058	510,000
2010	458,590	450,000
2011	482,951	475,000
2012	473,550	465,000
2013	479,160	470,000
2014	499,687	490,000
2015	530,971	520,000
2016	552,979	545,000
2017	941,430	941,429
2018	1,010,879	1,010,879
2019	1,034,934	1,034,934
2020	863,210	863,210
2021	1,046,067	1,046,067
2022	1100000	1100000

A few comments:

- Most values are very close, with most deltas <2%; exceptions are 1995, 2000 (since we are missing the 2000 Annual Report I used the 2000 figure contained in the 2001 report - this is why it is highlighted in pink), and 2015.
- In my opinion none of these differences will meaningfully impact the shape of the resulting plot.
- Particularly in the earlier reports (prior to 2008, when Republic Services took over

operation) there were often discrepancies between values quoted in one year and then referenced in subsequent years (e.g. look-back comparisons) and even between sections of the same year's report. These were almost always small. Wherever possible I have extracted figures from the intake volume table itself, rather than from other sections of the reports.

- The 2022 figure is of course estimated. Given the 1H2022 intake volume of about 550,000 Tons (from the Q1 and Q2 DEQ filings), it seems likely that Coffin Butte intake will hit the cap level of 1,100,100 Tons this year. Of course, if you have a more informed estimate I would use that.

Let me know if you have any questions or comments on these figures. I plan to re-run the plot on Monday so that I can send it out to the group prior to our next A.I meeting.

Regards,
Paul Nietfeld

On Fri, Nov 11, 2022 at 10:17 AM Bromann, Bill <WBromann@republicservices.com> wrote:

Paul,
I will see what we have. Thank you.

Bill Bromann
Area Environmental Manager - A01 Northwest.

From: Paul Nietfeld <pnietfeld@gmail.com>
Sent: Friday, November 11, 2022 11:15:32 AM
To: Bromann, Bill <WBromann@republicservices.com>
Cc: REDICK Daniel <daniel.redick@co.benton.or.us>
Subject: Re: DEQ intake data

This Message Is From an Untrusted Sender

You have not previously corresponded with this sender.

Report Suspicious

Bill:

Thank you for the guidance. It appears we have the annual reports for 1993 - 2001 (inclusive) posted on the county document library. I will wade through those and extract the reported annual intake, unless you happen to have an existing summary handy.

FYI, I did compare the 2021 annual report volume intake value to that obtained by summing the intakes listed in the DEQ 2001 quarterly disposal reports (SW + Tires + Sludge) and the totals were very close (discrepancy < 0.01%).

Regards,
Paul Nietfeld

On Thu, Nov 10, 2022 at 2:24 PM Bromann, Bill <WBromann@republicservices.com> wrote:

Paul,

The Benton County annual report numbers are what I would consider the most relevant for records of what has come across our scales at the LF, not DEQ. My understanding is that the DEQ reporting is mainly for fee payment and uses a different methodology for calculating tons that are reported.

So I believe you should have your source be Benton County.

William Bromann P.E.

Area Environmental Manager Northwest

8343 154th Ave NE Ste 110

Redmond, WA 98052

e wbromann@republicservices.com

o 425-646-2547

c 541-230-0721

w RepublicServices.com



Sustainability in Action

From: Paul Nietfeld <pnietfeld@gmail.com>
Sent: Thursday, November 10, 2022 9:31 AM
To: Bromann, Bill <WBromann@republicservices.com>
Cc: REDICK Daniel <daniel.redick@co.benton.or.us>
Subject: DEQ intake data

This Message Is From an Untrusted Sender

[Report Suspicious](#)

You have not previously corresponded with this sender.

Good morning Bill,

Attached is the raw Coffin Butte intake data I received from DEQ under a public records request. A few comments:

1. Data for 1990 through 2020 was received as a consolidated single file, while 2021 data was provided via separate copies of the quarterly solid waste disposal reports.
2. It seems the reporting changed in 2003 - 2004 in that some breakdown information began to be provided.
3. If you let me know what components Republic considers to be included in the annual intake figure I can compile the annual numbers into an Excel spreadsheet for your review.
4. Alternatively, if you have the annual numbers already compiled into a spreadsheet, I can compare that to the ODEQ and we can discuss any questions/discrepancies if needed.

My expectation is that once we have agreement on the underlying data I will update my Excel file with the new figures and rerun the intake volume plot, then send it to you for review. Unless you object I would like to keep the same basic format of this plot, as I tuned it to match an intake plot generated by our CDD staff and presented to the BoC in 2018, so they are already familiar with this look.

Please feel free to contact me at the above email address if you have any comments, questions or concerns.

Regards,

Paul Nietfeld