

***Ohio Petroleum Underground Storage
Tank Release Compensation Board***

Estimated Unpaid Claims Liability

As of June 30, 2021

Petroleum Underground Storage Tank Release Compensation Board
Estimate of Unpaid Reimbursement Liability
For the Year Ended June 30, 2021

Purpose of Report

The Petroleum Underground Storage Tank Release Compensation Board (the Board) was created in 1989 to administer Ohio's Petroleum Underground Storage Tank (UST) Financial Assurance Fund (the Fund). The Fund was created in response to U. S. Environmental Protection Agency (EPA) regulations requiring responsible persons (UST owners and operators) to demonstrate the capability to pay for correction actions caused by accidental releases of petroleum from UST systems and costs for third party liability resulting from releases. The Fund generally reimburses UST owners up to \$1 million per release, less a deductible. The deductible is based on the number of tanks owned and fees paid in a given year. An owner may receive up to \$4 million per year, depending on the number of tanks owned. To obtain a Certificate of Coverage and be eligible for reimbursement from the Fund, owners must participate in the Fund by paying an annual per-tank fee and certifying compliance with federal and state regulations as well as complying with the Board's internal procedures regarding the reporting and remediation of releases.

The Board annually estimates the unpaid reimbursement liability of the Fund. In fiscal years' 2003 and 2007, as a result of changes in assumptions, the Board engaged a professional actuary firm to perform an independent review of the assumptions and methodology used in developing this estimate as well as to provide an estimate of the Fund's unpaid reimbursement liability for the fiscal year under review. Under the guidance of a professional actuary firm, beginning in fiscal year 2010, management modified the historical analysis framework by adjusting the data available at April 30 to expected June 30 values. These expected values are then used in the development of the loss reserve estimate at June 30.

As a result of ongoing litigation, the Board took action at its January 2015 meeting to suspend the settlement of certain claims filed by four major oil companies (Held Claims). For fiscal years 2018 through 2021, the Board engaged an independent actuarial firm (the Actuary) to develop an estimate of the liability of the unpaid Held Claims, which was combined with the analysis of the unpaid non-Held Claims performed by Board staff to provide a total loss reserve estimate as of June 30, for each respective year.

During fiscal year 2020, the Board entered into a Settlement Agreement and Release (Agreement) with one of the major oil companies. The Agreement provides for payment to the major oil company of \$12.6 million spread over fiscal years 2020 through 2023 to resolve 142 of the Held Claims (Settled Held Claims). The Agreement also included resuming the evaluation and determination process for 35 of the Held Claims for which a subsequent owner or jobber of the subject release site agreed to continue conducting remediation on behalf of the major oil company (Jobber Claims). At its June 9, 2021 meeting, the Board approved contracting with the Actuary for the purpose of assisting the Fund in developing potential claim liability estimates for unpaid claims as of June 30, 2021. The Actuary performed an independent analysis of the Settled Held Claims, Jobber Claims, and remaining 45 Held Claims; management performed an internal analysis of the non-Held Claims. In addition to the formal report provided to the Fund (Independent Actuarial Analysis), the Actuary reviewed management's internal analysis and provided feedback to management. A copy of the Independent Actuarial Analysis may be obtained, pursuant to Ohio Revised Code 149.43, by writing to the Board at P.O. Box 2280, Westerville, Ohio, 43086-2280 or by calling 614-752-8963.

The author of this report is not an actuary, but discussed certain assumptions with the Actuary who provided the Independent Actuarial Analysis and relied on the Actuary's professional input during development of the estimate of the loss reserves and in the preparation of this report.

The following report and schedules are management's estimate of the Fund's loss reserves for the year ended June 30, 2021.

Approach

Separation of Claims

To facilitate the Actuary's review, management provided a listing of the 222 Held Claims, which includes the 142 Settled Held Claims and 35 Jobber Claims. In addition, the historical data on all claims as of April 30, 2021

was provided. A database containing only non-Held Claim data as of April 30, 2021 was used by management to prepare the unpaid claim liability estimate for the non-Held Claims.

The Actuary performed an independent analysis of the Held Claims and provided its findings to management. The results of the Actuary's analysis were combined with management's analysis of the non-Held Claims to obtain the total estimate of the Fund's unpaid claims liability as of June 30, 2021. Additionally, the Actuary reviewed management's analysis of the non-Held Claims and provided comments to management.

Use of April 30 data

Similar to the loss reserve estimate for fiscal year 2020, the Board's staff has prepared this report utilizing data available as of April 30, 2021 to estimate the Fund's unpaid reimbursement liability as of June 30, 2021.

Using data available as of April 30, 2021, adjustments were made to the most current year's (July 1, 2020 – June 30, 2021) data to provide expected values as of June 30, 2021. The adjustment, which assumes no seasonality in the notification or payment of claims is as follows:

Estimated June 30, 2021 value = June 30, 2020 value + (April 30, 2021 value – June 30, 2020 value) x (12/10)

The development of the loss reserve estimate utilized values adjusted to June 30, 2021 for the following items:

- Paid Losses (Reported Exhibit 6)
- Gross Face Value (Reported Exhibit 18)
- Reported Claims by Notification Year (Reported Exhibit 29)
- Closed Claims (Reported Exhibit 30)
- Paid Loss on Closed Claims (Reported Exhibit 11)

The Ratio of Disallowed Costs on Closed Claims to Cumulative Gross Face Value on Closed Claims (Reported Exhibit 25), and the Ratio of Deductible Recoveries on Closed Claims to Cumulative Gross Face Value less Disallowed Costs on Closed Claims (Reported Exhibit 27) use unadjusted April values.

The use of values adjusted to June 30 has the potential to impact the development process. Variances could exist due to abnormalities occurring during the last two months of the fiscal year in relation to the number of claims submitted, amount of gross face value from claims submitted, amount of claim payments, and number of claims closed. However, based upon a comparison of management's expected values against actual data as of June 30, 2021, the utilization of the April 30, 2021 data to develop expected June 30, 2021 values did not result in a significant variance that could have distorted the results of the development process.

Actuarial Methods

For the review of non-Held Claims, management used the following five actuarial methods in projecting ultimate fund losses by program notification year:

- Paid loss development
- Average loss
- Bornhuetter-Ferguson using average loss and paid loss
- Ultimate gross face value adjusted for disallowed costs and deductible recoveries
- Bornhuetter-Ferguson using ultimate gross face value and paid loss

Based on the results of these five tests, ultimate losses are selected by program notification year.

The estimated liability on the incurred but not reported (IBNR) claims as of June 30, 2021 was determined by estimating the ultimate claims by program release year using the following two actuarial methods:

- Reported claim development
- Bornhuetter-Ferguson using exposures and reported claims

Because of regulatory requirements that the Board receive an Application for Eligibility within one year of the release date, the liability on unreported claims is limited to only the latest release year. For fiscal year 2021, this is the period of July 1, 2020 through June 30, 2021.

In addition to the IBNR claims, 102 applications for eligibility were pending review and determination at June 30, 2021. These are added to the IBNR counts. Based on past history, management estimates 63% of the pending applications for eligibility to seek reimbursement from the Fund will be granted.

Findings

The Independent Actuarial Analysis of Fund Liabilities for Held Claims as of June 30, 2021 provided a range of net unpaid claim liability as follows:

Estimate	Total
Optimistic	\$ 8,328,960
Actuarial Central	\$ 9,585,930
Pessimistic	\$ 10,904,940

Following discussions with the Actuary, management selected the Actuary's Actuarial Central Estimate of \$9,585,930 as the total unpaid claim liability for Held Claims. It is management's understanding that the Actuarial Central Estimate reflects assumptions in line with the Fund's historical experience and is neither optimistic, nor pessimistic. The Fund estimated that of the total \$9,585,930 unpaid claim liability estimate provided by the Actuary, \$9,183,930 would be allocated for Held Claims reported prior to June 30, 2021, and \$402,000 would be allocated for Held Claims incurred but not reported as of June 30, 2021.

Management's estimate of the unpaid claim liability for non-Held Claims reported as of the valuation date of June 30, 2021 is \$22,011,435. Management's estimated unpaid claim liability of non-Held Claims incurred but not reported as of June 30, 2021 is \$4,628,400.

Based on management's analysis of non-Held Claims and its selection of the Actuarial Central Estimate for Held Claims, the Fund's total unpaid loss liability as of June 30, 2021 is estimated at \$36,225,765.

The table below details this amount and compares it to the estimate of the unpaid loss liability as of June 30, 2020.

Summary of Unpaid Liabilities				
Valuation Date		Claims Reported As of Valuation Date	Claims Unreported As of Valuation Date	Total
June 30, 2021	Non-Held Claims	\$ 22,011,435	\$ 4,628,400	
	Held Claims	9,183,930	402,000	
	Total	\$ 31,195,365	\$ 5,030,400	\$ 36,225,765
June 30, 2020	Non-Held Claims	\$ 21,343,300	\$ 3,817,500	
	Held Claims	12,850,220	384,000	
	Total	\$ 34,193,520	\$ 4,201,500	\$ 38,395,020

Reported Claims

The decrease in the estimated unpaid liability for reported claims from the June 30, 2020 valuation is a result of claim reimbursements being paid at a rate greater than the increase in the estimated ultimate loss. The estimated ultimate loss increased approximately \$9.36 million from June 30, 2020 to June 30, 2021. The increase in the estimated ultimate loss has three components. The first is the change in the estimates of ultimate losses for Notification Years 2019 and prior, which increased by \$8.12 million. The second component is the estimate of ultimate losses for Notification Year 2020 which totaled \$416,500. The third component is the change in the estimate of Unreported Claims, which increased by \$828,900. By comparison, in fiscal year 2021, approximately \$11.53 million was reimbursed.

The following table summarizes the change in the Estimated Unpaid Ultimate Losses:

<u>Estimate as of June 30, 2020</u>	
(1) Notification Years 2018 and Prior	\$ 34,193,520
(2) Unreported Claims	4,201,500
(3) Total	\$ 38,395,020
<u>Change in Estimated Ultimate Claims</u>	
(4) Notification Years 2019 and Prior	\$ 8,117,710
(5) Notification Year 2020	416,500
(6) Unreported Claims	828,900
(7) Total	\$ 9,363,110
(8) <u>Paid Losses June 30, 2020 – June 30, 2021</u>	\$ 11,532,365
(9) <u>Unpaid Loss June 30, 2021 [(3)+(7)-(8)]</u>	\$ 36,225,765

Unreported Claims

Unreported claims has two components:

- Incurred but Not Reported; and
- Undetermined eligibility applications.

The estimated loss on unreported claims increased \$828,900 or 19.7% from \$4,201,500 as of June 30, 2020 to \$5,030,400 as of June 30, 2021. This is a result of an increase in the number of undetermined eligibility applications and an increase in the selected average loss.

Changes from Prior Analysis

Changes in the methods used to make selections in the process of determining the estimated ultimate loss will have an impact on the loss reserves. Based on discussions with the Actuary, management made changes in the way selections were made for the valuation period ending June 30, 2021, as follows:

- Selection of the Ultimate Loss

The selected ultimate loss amounts, shown on Reported Exhibit 4, column (7), are based on an average of the values in column (3) "Bornhuetter-Ferguson Using Average Loss and Paid Loss"; column (4) "Ultimate Loss Based on Ultimate Face Value Loss Less Disallowed Costs Less Deductible Recoveries"; and column (5) "Bornhuetter-Ferguson Using Gross Face Value and Paid Loss" for notification years 1990 through 2005, 2008 through 2010, and 2017 through 2020. The selection for notification years 2006, 2007, 2013, 2015 and 2016 are based on column (4); notification years 2011, 2012, and 2014 are based on an average of the values in columns (4) and (5); and notification year 1989 is the actual paid loss. The prior year report was based on an average of Reported Exhibit 4,

columns (4) and (5) for notification years 1990 through 2019, and notification year 1989 was the actual paid loss. The effect of this change was an overall increase in the ultimate loss used in Reported Exhibit 1, with increases in the ultimate loss occurring in the years where the selection was made using columns (3), (4), and (5) of Reported Exhibit 4; and decreases in the ultimate loss occurring in notification years where the selection was made using only column (4) of Reported Exhibit 4.

Considerations

Revisions in federal law and the Ohio Administrative (OAC) and Revised (ORC) Codes as well as the Board's internal procedures affect the timing and amount of claim reimbursements. The following changes and assumptions are incorporated in previous reports and continue to affect the outcome of management's estimate:

- UST Performance Standards

In 1988, more stringent requirements were mandated for the design, installation, corrosion protection and release detection of petroleum USTs. All existing tanks were required to be upgraded by December 22, 1998. However, because owners were permitted to take their tanks out of service for up to one year prior to replacement or upgrading, management assumes that all tanks meet the new performance standards as of December 22, 1999.

Because the process of removing and replacing tanks leads to the discovery of more releases, the Fund experienced a large number of claims leading up to December 22, 1998. The number of releases versus the number of tanks decreased significantly after the upgrade deadline and management assumes that this reduced frequency will continue.

- Change in Procedures for Providing Notification (1996)

Prior to 1996, no restrictions existed with regards to notifying the Board of a release. Consequently, the Board may have not received notification of a release occurring in 1990 until several years later. However, effective in November 1996, a change to the OAC imposed a one-year time limit for notifying the Board of a discovered release. Releases required to be reported to the State Fire Marshal (SFM) prior to January 1, 1996 were now required to be reported to the Board on or before January 1, 1997. Releases occurring thereafter must be reported to the Board within one year from the date the release, suspected release or confirmed release, whichever is first discovered, was required to be reported to the SFM. This change in reporting resulted in the unusually high number of claims reported to the Board during the 1996 notification year and the corresponding increase in gross face value.

- Change in Procedures for Submitting Costs (1999)

Prior to 1999, no restrictions were placed on the timing of cost submissions. Owners could submit costs at any point during investigation and remediation of the release or alternatively, wait until all corrective action was complete. However, a change to the OAC in 1999 required that all costs incurred for corrective action program tasks completed prior to July 1, 1999 and that were not previously submitted to the Board, be submitted by July 1, 2000. In addition, costs for program tasks that were completed after July 1, 2000 are required to be submitted within one year of the completion date defined within the OAC.

The immediate effect of this change was a significant increase in the amount of costs submitted in the 1999 notification year. Requiring timely submission of costs results in the acceleration of the reported gross face value when compared to costs submitted prior to this change.

- Change in Reimbursement of Non Pre-approved Costs

After the Board's staff evaluates a reimbursement application, a determination of the claim is issued to the owner. Reimbursements are generally determined as the gross face value less non-reimbursable and undocumented costs and an individual owner's deductible amount. Beginning in 1999, certain corrective action costs require pre-approval in order to be eligible for full reimbursement. Costs that were not pre-approved as required were subject to a 10% reduction in the amount of reimbursement.

In 2003, this 10% reduction was increased to 20% and in April 2005, it was increased to 50%. Effective November 30, 2009, the Board amended its rule, OAC 3737-1-12.1, requiring the pre-approval of costs. As a result of this amendment, only costs exceeding the pre-approved amount by more than 20% or \$6,000, whichever is less, that are not pre-approved are subject to a 50% reduction in the amount of reimbursement.

Because the pre-approval process combined with the penalty for failure to obtain pre-approval when required provides incentive to use the most cost effective cleanup method, management believes mandatory cost pre-approval has the effect of reducing both gross face value and disallowed costs. Additionally, management believes the November 30, 2009 change to the OAC does not impact its estimate of ultimate losses.

- Introduction of Risk Based Corrective Action (RBCA) (1999)

In 1999, a new set of standards for corrective actions was introduced which impacted all releases occurring on or after March 31, 1999. A Risk-Based Corrective Action (RBCA) process was established, allowing for site specific cleanup remedies based on the anticipated future use of the site. Previous to that time, all corrective actions were held to generic standards without consideration of future site use. It was anticipated that the speed of the corrective action process would be accelerated and the overall cost of remediation would be reduced with the implementation of the RBCA process.

Responsible persons with claims, where the release date was before March 31, 1999 (regardless of the status of the corrective action), had the option to remediate their sites in compliance with either the original (non-RBCA) standards or the RBCA process. In loss reserve analyses prior to June 30, 2007, an adjustment was included to reflect the possible impact of the optional RBCA processing. However, beginning with the June 30, 2007 valuation, management assumes the impact from RBCA is imbedded within the data used to develop the estimates and as a result, an adjustment is not necessary.

- Mandatory Risk Based Corrective Action (RBCA) (2005)

Beginning in March 2005, existing clean ups being conducted under the 1992 or 1999 corrective action rules were required to transition to the 2005 RBCA rules by September 1, 2005 or March 1, 2006, respectively, unless approval to remain in an earlier version of the rule was sought from and granted by the SFM. Under the 2005 RBCA rules, the corrective action levels were lowered thereby increasing the amount of corrective action that must be performed to reach acceptable levels of contamination that may remain at the release site. In addition, the 2005 RBCA rules require additional testing and reporting. It is management's belief that costs for transitioning to the 2005 correction action rule do not significantly impact the Fund's liability.

- State Fire Marshal's Corrective Action Rules (2012)

Beginning in March 2012, existing clean ups being conducted under the 1992, 1999, or 2005 corrective action rules were required to transition to the 2012 rules by October 1, 2012, unless approval to remain in an earlier version of the rule was sought from and granted by the SFM. For a limited number of releases transitioned from the 2005 to 2012 corrective action rules, the change will decrease the amount of corrective action that must be performed to reach acceptable levels of contamination that may remain at the release site. This, in turn, will reduce the costs to closure of corrective action for this limited number of releases. It is management's belief that costs for transitioning to the 2012 correction action rule do not significantly impact the Fund's liability.

- State Fire Marshal's Corrective Action Rules (2017)

Effective September 1, 2017, the SFM amended rule 1301:7-9-13 of the Administrative Code to include additional chemicals of concern (COCs). Unlike the 2005 and 2012 corrective action rules previously discussed, responsible persons are not required, but may elect, to conduct corrective actions for a release discovered before the effective date of the rule in accordance with the 2017 corrective action rule. Releases discovered on or after September 1, 2017 must be assessed and remediated under the 2017 corrective rule. Chemicals of concern that exceed site specific target

levels must be cleaned up to acceptable levels. It is management's belief that any additional costs to test for and clean up these newly added COCs will not significantly impact the Fund's liability.

- Limitations on Annual Reimbursement Amounts

Prior to the 1997 notification year, no restrictions were placed on the amount of funds available to make reimbursements during an annual period. Effective with the 1997 notification year, changes to the OAC required the Board to annually obligate a set amount of funds for the payment of claims reimbursements. The amounts obligated by notification year are as follows:

Years	Annual Obligated Amount
1997 - 2000	\$15 Million
2001	\$12 Million
2002 – 2005	\$10 Million
2006 – 2009	\$9 Million
2010	\$8 Million
2011-2019	\$9 Million
2020	\$13 Million
2021	\$12 Million

- Change in Procedures for Processing and Prioritizing Claim Reimbursements

As a means to collectively determine costs submitted incrementally for reimbursement and to manage the backlog of claims created by the regulations requiring timely submission of corrective action costs for reimbursement, beginning in 2004 and continuing through the 2009 notification year, the Board offered lump sum settlements to three major oil companies for releases for which the SFM had issued a "No Further Action" (NFA) determination. A summary of those lump sum settlements follows:

Notification Year	Lump Sum Payments	Lump Sum Claims
2003	\$663,775	36*
2004	\$1,517,500	91
2005	\$912,000	23
2006	\$1,832,000	34
2008	\$1,820,000	30
2009	\$1,215,000	96

*In 2007, 24 claims were re-opened and additional costs continue to be submitted with a 25% reduction in the reimbursable costs as determined by the Board.

Until April 2005, applications for claim reimbursement were generally determined on a first-come, first-serve basis. Applications are submitted incrementally as corrective action program tasks are completed. A change to the OAC in 2005 permitted the prioritization of applications based on the NFA status. Consequently, when the SFM issues a determination of NFA, all in-house applications can be simultaneously evaluated and determined.

Both the lump sum settlements and the prioritizing of reimbursement applications according to the NFA status had the effect of accelerating the number of closed claims and the determination of disallowed costs and deductible values. The prioritization of claims also had the unintended effect of increasing the time to review claims for releases with ongoing investigation and remediation. In December 2011, the prioritization of applications based on NFA status was discontinued and all in-house undetermined claims are generally evaluated and determined on a first-come, first-serve basis.

- Claims Lag

Due to the regulations requiring incremental and timely submission of corrective action costs for reimbursement and staffing limitations, the number of claim reimbursement applications received exceeded the number of claim reimbursement applications determined from the 1999 notification year to the 2010 notification year. This in turn delayed the determination of disallowed costs and the issuance of claim reimbursement payments, affecting the development factors. In notification years 2011 through 2017, the number of claim reimbursement applications determined outpaced the number of claim reimbursement applications received. In notification year 2018, the number of claim

reimbursement applications received again exceeded the number of claim reimbursement claims determined due to the retirement of key personnel. In notification year 2019, the Board's staff moved to a teleworking schedule in response to the COVID-19 pandemic, resulting in delays in claim reimbursement response times and the number of claim reimbursement applications received continued to exceed the number of claim reimbursement applications determined. In notification year 2020, the number of claim reimbursement applications determined exceeded the number of claim reimbursement applications received by 9%. The delays in previous years do not significantly affect the development factors for the June 30, 2021 estimate.

- Ongoing Data Clean-Up

Beginning in 1999, the Board began a re-write of its database system. As part of this project, claims reimbursement data was migrated to the new system and data integrity checks were implemented. Over the past several years, the claims tracking data was reviewed and corrected where appropriate.

In the current reporting period, one claim which was being reviewed for eligibility and not included in the data in prior years was added to the 2019 notification year's data upon determination of eligibility. It is management's belief that this change does not have a significant impact on its estimate of the Fund's ultimate losses

Although future changes in historical values are not currently anticipated, data corrections may nonetheless be required. However, any changes will continue to be very minimal.

- Claims Suspended Due to Pending Litigation

At its January 2015 meeting, the Board took action to suspend the evaluation and determination of any and all claim reimbursement applications filed by or on behalf of any responsible person against whom the Board has authorized the filing of a complaint in litigation. The Board authorized the filing of four complaints and the determination of claim applications for the reimbursement of costs related to 222 claims was suspended. As of June 30, 2021, there are 45 claims for which the determination of the claim applications continue to be suspended. In fiscal years 2018 through 2021, the Board retained the Actuary to assist management with determining the impact of this suspension on the Fund's loss reserves. Therefore, it is management's belief that the effect of this suspension on the Fund's loss reserves has been incorporated into the development of the potential claim liability for unpaid claims as of June 30, 2021.

- Claim Settlement Agreement

At its November 20, 2019 meeting, the Board authorized entering into a Settlement Agreement and Release with a major oil company in exchange for a mutual release and covenant not to sue. Pursuant to the Agreement executed on December 5, 2019, the Board agreed to pay and the major oil company agreed to accept \$12.6 million to be paid in four installments as full and complete satisfaction of all claim reimbursement applications that have been or could be submitted by the major oil company or its vendors for corrective action costs it incurred for Fund eligible claims submitted on or before the effective date of the Agreement. This Agreement resulted in the settlement of claimed costs associated with 143 releases. The payment schedule is as follows:

Fiscal year	payment
2020	\$ 4.1 million
2021	\$ 4 million
2022	\$ 4 million
2023	\$ 500,000

The unpaid liability of \$4,500,000 at June 30, 2021 is included in the Independent Actuarial Analysis for the year ended June 30, 2021.

Limitations / Caveats

The results of this analysis are management's estimates and are likely to change from one valuation period to the next. The changes are due not only to the uncertain nature of the claims reimbursement process, but also because the past is used to forecast the future, with the assumption that the conditions that existed in the past will continue.

Summary of Reserve Estimates

As of June 30, 2021

(A) Estimated Loss Reserves From Non-Held Claims Reported Prior to 7/1/21:	\$ 22,011,435
(B) Estimated Loss Reserves From Held Claims Reported Prior to 7/1/21:	9,183,930
(C) Estimated Loss Reserves From Non-Held Claims Reported or Approved After 7/1/21:	4,628,400
(D) Estimated Loss Reserves From Held Claims Reported or Approved After 7/1/21:	402,000
(E) Total Reserves (A) + (B) + (C) + (D):	\$ 36,225,765

Notes:

1. Row (A) is from Reported Exhibit 1, total of column (3).
2. Row (B) is from Independent Actuarial Analysis, Exhibit 1, column (10), All Held Claims @ 4/30/21 Actuarial Central Estimate less amount in row (D)
3. Row (C) is from Unreported Exhibit 1, column (6).
4. Row (D) is from Independent Actuarial Analysis, Exhibit 2, Actuarial Central, value of (column 21: row 2 x row 7), less (column 21: row 2 x row 7 x column 23: row 12), less (column 21: row 2 x row 7 x column 23: row 16)
5. For Row (B) the Independent Actuarial Analysis includes payments for Held Claims through June 30, 2021.

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 1
Held Claims Removed

Summary of Losses and Reserves
As of 6/30/2021

Notification Year	Ultimate Loss	Paid Loss	Indicated Loss Reserves (1) - (2)	Open Claims	Loss Reserve Per Open Claim (3) / (4)
	(1)	(2)	(3)	(4)	(5)
1989	\$ 22,040	\$ 22,040	\$ -	0	\$ -
1990	29,892,100	29,543,360	348,740	18	19,374
1991	49,721,600	48,952,894	768,706	27	28,471
1992	26,645,500	25,988,437	657,063	13	50,543
1993	23,101,400	22,618,067	483,333	13	37,179
1994	16,135,500	15,516,412	619,088	17	36,417
1995	18,946,600	18,176,176	770,424	12	64,202
1996	28,109,200	26,562,080	1,547,120	23	67,266
1997	8,019,800	7,481,433	538,367	7	76,910
1998	10,783,800	10,005,000	778,800	30	25,960
1999	7,122,200	6,298,475	823,725	15	54,915
2000	2,793,300	2,653,983	139,317	3	46,439
2001	1,771,800	1,613,830	157,970	2	78,985
2002	2,053,100	1,801,016	252,084	5	50,417
2003	1,399,100	1,159,357	239,743	1	239,743
2004	1,136,600	1,054,847	81,753	4	20,438
2005	3,544,500	3,205,983	338,517	9	37,613
2006	3,323,100	2,998,862	324,238	7	46,320
2007	3,414,600	3,001,761	412,839	6	68,807
2008	4,906,000	3,964,515	941,485	18	52,305
2009	5,833,700	5,176,462	657,238	18	36,513
2010	2,900,800	2,656,937	243,863	11	22,169
2011	2,097,300	1,493,884	603,416	10	60,342
2012	3,681,900	2,736,411	945,489	21	45,023
2013	2,433,500	1,750,427	683,073	11	62,098
2014	5,370,500	4,286,315	1,084,185	26	41,699
2015	2,291,700	1,697,978	593,722	10	59,372
2016	2,388,100	1,638,128	749,972	14	53,569
2017	2,077,600	434,193	1,643,407	24	68,475
2018	2,469,300	378,262	2,091,038	38	55,027
2019	3,051,700	758,514	2,293,186	49	46,800
2020	215,500	15,966	199,534	4	49,884
Total	\$ 277,653,440	\$ 255,642,005	\$ 22,011,435	466	\$ 47,235

1. Column (1) is from Reported Exhibit 4, column (7).
2. Column (2) is Actual Paid Loss as of June 30, 2021.
3. Column (4) is from Reported Exhibit 28, column (2).

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 2

Estimated Ultimate Average Loss
As of 06/30/2021

Notification Year	Ultimate Loss (1)	Ultimate Claims (2)	Ultimate Average Loss (1) / (2) (3)	Change in Ultimate Average Loss (4)	Percentage Change (4) / Prior (3) (5)
1989	\$ 22,040	1	\$ 22,040		
1990	29,892,100	323	92,545	70,505	319.897
1991	49,721,600	623	79,810	-12,735	-13.761
1992	26,645,500	348	76,568	-3,242	-4.063
1993	23,101,400	352	65,629	-10,939	-14.286
1994	16,135,500	276	58,462	-7,167	-10.921
1995	18,946,600	274	69,148	10,686	18.279
1996	28,109,200	445	63,167	-5,981	-8.650
1997	8,019,800	158	50,758	-12,409	-19.644
1998	10,783,800	211	51,108	350	0.689
1999	7,122,200	104	68,483	17,375	33.996
2000	2,793,300	65	42,974	-25,509	-37.249
2001	1,771,800	34	52,112	9,138	21.264
2002	2,053,100	45	45,624	-6,487	-12.449
2003	1,399,100	53	26,398	-19,226	-42.140
2004	1,136,600	40	28,415	2,017	7.640
2005	3,544,500	60	59,075	30,660	107.901
2006	3,323,100	61	54,477	-4,598	-7.783
2007	3,414,600	69	49,487	-4,990	-9.160
2008	4,906,000	73	67,205	17,719	35.804
2009	5,833,700	77	75,762	8,557	12.732
2010	2,900,800	34	85,318	9,555	12.612
2011	2,097,300	47	44,623	-40,694	-47.697
2012	3,681,900	68	54,146	9,522	21.339
2013	2,433,500	49	49,663	-4,482	-8.278
2014	5,370,500	68	78,978	29,315	59.027
2015	2,291,700	44	52,084	-26,894	-34.052
2016	2,388,100	45	53,069	985	1.891
2017	2,077,600	39	53,272	203	0.382
2018	2,469,300	49	50,394	-2,878	-5.402
2019	3,051,700	55	55,485	5,092	10.104
2020	215,500	4	53,875	-1,610	-2.902
Total	\$ 277,653,440	4,194			
Exponential Fit:					
Trend (%)			-0.104		
Intercept			\$ 55,650		
R Squared			0.001		

Notes:

1. Column (1) is from Reported Exhibit 4, column (7).
2. Column (2) is from Reported Exhibit 28, column (5).

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 3

Ratio of Ultimate Loss to Ultimate Gross Face Value
As of 06/30/2021

Notification Year	Ultimate Loss	Ultimate Gross Face Value	Ratio (1) / (2)
<u> </u>	<u> </u>	<u> </u>	<u> </u>
	(1)	(2)	(3)
1989	\$ 22,040	\$ 38,000	0.580
1990	29,892,100	47,708,000	0.627
1991	49,721,600	79,589,000	0.625
1992	26,645,500	43,940,000	0.606
1993	23,101,400	38,758,000	0.596
1994	16,135,500	29,225,000	0.552
1995	18,946,600	31,866,000	0.595
1996	28,109,200	48,204,000	0.583
1997	8,019,800	12,968,000	0.618
1998	10,783,800	20,205,000	0.534
1999	7,122,200	11,942,000	0.596
2000	2,793,300	5,349,000	0.522
2001	1,771,800	4,562,000	0.388
2002	2,053,100	4,783,000	0.429
2003	1,399,100	3,933,000	0.356
2004	1,136,600	3,406,000	0.334
2005	3,544,500	7,366,000	0.481
2006	3,323,100	8,358,000	0.398
2007	3,414,600	8,130,000	0.420
2008	4,906,000	11,181,000	0.439
2009	5,833,700	11,705,000	0.498
2010	2,900,800	5,259,000	0.552
2011	2,097,300	5,291,000	0.396
2012	3,681,900	9,251,000	0.398
2013	2,433,500	7,174,000	0.339
2014	5,370,500	11,349,000	0.473
2015	2,291,700	6,756,000	0.339
2016	2,388,100	7,040,000	0.339
2017	2,077,600	5,796,000	0.358
2018	2,469,300	7,108,000	0.347
2019	3,051,700	8,696,000	0.351
2020	215,500	623,000	0.346
Total	\$277,653,440	\$507,559,000	0.547

Notes:

1. Column (1) is from Reported Exhibit 4, column (7).
2. Column (2) is from Reported Exhibit 16, column (4).

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 4

Comparison of Ultimate Loss Estimates
As of 06/30/2021

Notification Year	Paid Loss Development	Average Loss	Bornhuetter-Ferguson Using Average Loss and Paid Loss	Ultimate Loss Based on Ultimate Face Value Less Disallowed Costs Less Deductible Recoveries	Bornhuetter-Ferguson Using Gross Face Value and Paid Loss	Straight Average	Ultimate Loss
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1989	\$ 22,260	\$ 22,040	\$ 22,258	\$ 22,327	\$ 22,261	\$ 22,229	\$ 22,040
1990	30,104,928	29,716,000	30,097,737	29,484,975	30,093,465	29,899,421	29,892,100
1991	50,378,627	48,594,000	50,329,493	48,508,063	50,327,127	49,627,462	49,721,600
1992	26,919,150	26,448,000	26,902,363	26,142,542	26,891,480	26,660,707	26,645,500
1993	23,638,390	22,528,000	23,591,088	22,138,570	23,574,498	23,094,109	23,101,400
1994	16,343,655	16,008,000	16,326,339	15,766,420	16,313,877	16,151,658	16,135,500
1995	19,389,924	18,632,000	19,342,958	18,181,784	19,315,059	18,972,345	18,946,600
1996	28,645,704	27,590,000	28,570,059	27,214,532	28,543,156	28,112,690	28,109,200
1997	8,140,592	8,058,000	8,133,933	7,811,456	8,114,057	8,051,608	8,019,800
1998	11,012,132	10,339,000	10,949,956	10,441,944	10,959,465	10,740,499	10,783,800
1999	7,028,538	6,968,000	7,022,442	7,289,397	7,054,805	7,072,637	7,122,200
2000	3,015,701	2,665,000	2,975,979	2,451,982	2,951,851	2,812,102	2,793,300
2001	1,853,828	1,768,000	1,842,819	1,645,605	1,827,121	1,787,475	1,771,800
2002	2,168,235	1,935,000	2,131,447	1,901,721	2,126,198	2,052,520	2,053,100
2003	1,425,122	1,325,000	1,406,546	1,374,977	1,415,819	1,389,493	1,399,100
2004	1,258,341	1,120,000	1,229,119	980,928	1,199,742	1,157,626	1,136,600
2005	4,414,299	3,120,000	4,074,660	2,616,403	3,942,511	3,633,575	3,544,500
2006	4,255,046	3,599,000	4,065,445	3,323,141	3,985,721	3,845,671	3,323,100
2007	4,526,933	3,519,000	4,196,272	3,414,600	4,162,022	3,963,766	3,414,600
2008	6,236,381	4,380,000	5,568,339	3,792,774	5,357,018	5,066,902	4,906,000
2009	8,289,046	4,774,000	6,921,613	3,970,523	6,809,042	6,112,845	5,833,700
2010	4,537,799	2,210,000	3,549,650	1,783,937	3,368,786	3,090,034	2,900,800
2011	3,017,778	2,773,000	2,894,074	1,794,792	2,399,713	2,575,871	2,097,300
2012	5,599,175	3,876,000	4,637,566	3,138,087	4,225,778	4,295,321	3,681,900
2013	4,512,439	2,793,000	3,469,727	2,433,536	3,251,738	3,292,088	2,433,500
2014	12,459,835	4,012,000	6,996,129	3,849,762	6,891,201	6,841,786	5,370,500
2015	5,668,759	2,596,000	3,544,101	2,291,743	3,333,723	3,486,865	2,291,700
2016	6,467,096	2,700,000	3,676,476	2,388,081	3,445,410	3,735,413	2,388,100
2017	2,208,010	2,262,000	2,250,943	1,966,096	2,015,638	2,140,537	2,077,600
2018	1,853,994	2,793,000	2,662,930	2,411,147	2,333,971	2,411,008	2,469,300
2019	3,939,255	3,135,000	3,188,980	2,949,822	3,016,231	3,245,858	3,051,700
2020	-	228,000	225,822	211,332	209,313	174,893	215,500
Total	\$309,330,972	\$272,486,040	\$292,797,263	\$263,692,999	\$289,277,797	\$285,517,014	\$277,653,440

Notes:

- Column (1) is from Reported Exhibit 5, column (4).
- Column (2) is from Reported Exhibit 8, column (3).
- Column (3) is from Reported Exhibit 9, column (10).
- Column (4) is from Reported Exhibit 12, column (4).
- Column (5) is from Reported Exhibit 13, column (10).
- Selected ultimate loss in column (7) is based on a rounded average of columns (3), (4) and (5) for notification years 1990 - 2005, 2008 - 2010, and 2017 - 2020; for notification years 2006, 2007, 2013, 2015 and 2016 the selection is based on column (4); for notification years 2011, 2012, and 2014 the selection is based on the average of columns (4) and (5); and for notification year 1989 the actual paid loss was used.

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 5

Ultimate Loss Based on Paid Loss Development
As of 06/30/2021

Notification Year	Cumulative Paid Loss	Selected Development Factors	Cumulative Development Factors	Ultimate Loss (1) x (3)
_____	(1)	(2)	(3)	(4)
1989	\$ 22,040	1.010	1.010	\$ 22,260
1990	29,548,265	1.009	1.019	30,104,928
1991	48,991,614	1.009	1.028	50,378,627
1992	25,960,048	1.008	1.037	26,919,150
1993	22,631,404	1.007	1.044	23,638,390
1994	15,500,518	1.009	1.054	16,343,655
1995	18,188,378	1.011	1.066	19,389,924
1996	26,593,144	1.010	1.077	28,645,704
1997	7,484,291	1.010	1.088	8,140,592
1998	9,994,955	1.013	1.102	11,012,132
1999	6,320,801	1.009	1.112	7,028,538
2000	2,674,127	1.014	1.128	3,015,701
2001	1,616,051	1.017	1.147	1,853,828
2002	1,826,237	1.035	1.187	2,168,235
2003	1,160,717	1.034	1.228	1,425,122
2004	992,540	1.033	1.268	1,258,341
2005	3,255,938	1.069	1.356	4,414,299
2006	3,025,315	1.037	1.406	4,255,046
2007	3,041,832	1.058	1.488	4,526,933
2008	3,992,140	1.050	1.562	6,236,381
2009	5,064,419	1.048	1.637	8,289,046
2010	2,611,507	1.062	1.738	4,537,799
2011	1,492,673	1.164	2.022	3,017,778
2012	2,474,585	1.119	2.263	5,599,175
2013	1,775,979	1.123	2.541	4,512,439
2014	4,401,336	1.114	2.831	12,459,835
2015	1,749,098	1.145	3.241	5,668,759
2016	1,676,349	1.190	3.858	6,467,096
2017	452,187	1.266	4.883	2,208,010
2018	256,813	1.478	7.219	1,853,994
2019	264,394	2.064	14.899	3,939,255
2020	-	7.028	104.706	-
Total	\$255,039,695			\$309,330,972

Notes:

1. Paid loss in column (1) is estimated using values available at April 30, 2021.
2. Development factors in columns (2) and (3) are selected in Reported Exhibit 7.

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 6

Paid Loss
As of 06/30/2021

Notification Year	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324	336	348	360	372	384		
1989	0	0	12,000	10,040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1990	12,581	4,579,384	2,292,209	3,016,367	1,986,216	1,987,037	1,726,236	1,251,497	935,901	1,130,393	998,129	1,340,440	896,642	605,459	1,139,992	1,070,421	453,667	538,545	354,919	480,532	313,306	244,357	184,622	373,438	154,964	309,220	281,009	202,889	131,481	83,870	172,568	0		
1991	1,489,080	2,269,827	3,910,687	3,726,186	3,995,865	4,414,741	4,091,423	2,542,295	2,040,694	2,055,667	1,650,294	1,944,494	1,460,518	1,700,451	1,761,191	1,839,665	1,244,550	834,272	600,381	547,600	258,616	255,757	652,051	792,245	494,682	568,992	429,647	597,478	668,832	0	0			
1992	245,967	2,065,236	2,769,858	3,938,737	2,154,469	1,896,197	1,320,402	891,869	891,611	1,081,006	559,977	1,303,570	714,110	1,259,312	691,444	814,645	1,000,206	198,111	585,795	168,995	493,255	142,574	273,318	335,681	141,060	115,053	48,353	38,838	20,419	0	0			
1993	162,107	1,573,898	1,453,998	1,886,065	1,942,300	935,737	972,882	1,890,742	743,008	1,261,592	785,267	938,927	705,173	1,395,179	525,248	574,699	683,680	344,800	579,498	233,966	299,536	424,065	316,673	373,054	446,478	282,381	463,635	436,513	0	0	0			
1994	20,241	1,438,526	1,834,364	1,144,667	1,293,737	662,192	766,610	758,774	696,533	549,255	714,856	709,591	640,587	516,700	697,660	293,147	454,551	380,113	139,870	300,505	255,992	170,972	154,814	410,452	117,531	241,377	139,904	0	0	0	0			
1995	232,842	1,248,543	1,870,339	1,524,669	1,235,166	1,093,987	654,490	833,639	840,187	1,026,492	728,594	757,811	330,406	844,878	535,950	182,885	750,722	471,449	843,853	695,909	506,348	403,927	219,624	140,730	71,098	145,940	0	0	0	0	0			
1996	595,657	1,822,967	2,202,874	2,099,868	1,950,242	1,563,698	1,245,057	1,229,562	1,835,393	1,523,620	1,258,080	1,067,963	1,406,599	962,901	758,271	806,176	1,320,577	869,714	657,246	536,384	204,149	159,290	176,519	93,950	186,386	0	0	0	0	0	0			
1997	149,129	913,347	1,148,545	365,049	510,358	434,607	407,805	321,715	317,449	180,315	342,832	419,408	247,475	271,272	178,729	283,178	206,721	336,348	182,910	127,787	59,828	26,042	56,292	17,149	0	0	0	0	0	0	0	0		
1998	65,987	1,081,129	554,853	604,679	456,741	427,526	464,728	203,943	597,547	500,387	687,571	414,646	222,901	201,585	366,008	308,302	563,574	527,182	294,776	485,022	474,318	221,624	270,209	0	0	0	0	0	0	0	0	0		
1999	105,513	897,046	960,160	483,410	533,123	276,232	239,981	322,396	186,795	133,117	222,492	100,256	188,080	217,946	106,251	162,530	324,067	164,939	133,291	148,126	87,377	328,653	0	0	0	0	0	0	0	0	0	0		
2000	0	46,067	63,586	214,574	72,783	28,424	200,703	86,773	114,038	116,800	63,454	36,749	72,337	73,808	48,596	135,777	108,354	58,065	61,835	13,326	0	0	0	0	0	0	0	0	0	0	0	0	0	
2001	0	19,855	205,426	61,378	92,214	10,232	13,789	365,052	83,197	251,892	175,354	97,219	71,753	63,144	77,968	18,571	4,740	3,186	151,326	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2002	0	78,191	52,753	73,276	62,170	62,115	164,703	177,146	173,252	26,673	99,948	67,182	11,068	8,324	24,547	10,336	60,875	8,160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2003	2,796	18,341	151,879	156,366	80,890	64,383	58,125	224,135	9,332	31,178	35,701	7,264	68,700	24,978	22,394	19,528	16,551	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2004	0	214,346	278,048	269,946	53,212	216,329	49,674	326,639	127,866	316,330	178,636	211,685	295,502	110,341	233,750	413,635	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2005	13,674	88,961	239,996	391,578	160,465	151,876	157,601	282,339	551,422	214,426	253,796	104,948	50,235	208,732	158,716	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2006	19,955	63,102	322,685	117,950	470,926	223,422	278,592	374,576	283,774	295,291	268,565	53,210	29,356	240,427	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2007	0	41,447	295,182	310,205	155,831	311,977	555,210	448,132	433,399	512,060	411,070	291,463	226,164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2008	0	930,963	220,014	659,878	163,164	366,990	374,883	441,674	319,446	289,341	945,653	352,412	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2009	0	151,463	143,072	362,574	154,228	287,573	354,917	166,753	183,584	134,128	333,185	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2010	0	565	633,515	90,118	116,474	142,635	168,905	149,292	113,089	78,081	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2011	0	20,225	464,723	98,262	690,942	372,656	241,426	253,218	433,133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	267,838	390,887	318,408	290,593	211,971	124,828	171,454	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	9,968	535,145	729,731	967,018	697,155	794,129	778,190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	10,951	282,782	636,768	178,909	132,970	306,719	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	0	260,567	821,936	364,521	229,325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	10,651	90,417	191,195	159,924	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	0	284,394	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Paid loss is estimated using values available at April 30, 2021.

Cumulative Paid Loss
As of 06/30/2021

Notification Year	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324	336	348	360	372	384	
1989	0	0	12,000	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040
1990	12,581	4,591,965	6,884,714	9,900,541	11,886,757	13,873,795	15,860,031	16,851,528	17,787,429	18,917,811	19,915,940	21,256,380	22,153,022	22,758,481	23,898,473	24,968,994	25,422,551	26,261,096	26,616,015	27,096,547	27,409,85												

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 7

Paid Loss Development
As of 06/30/2021

Notification Year	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-252	252-264	264-276	276-288	288-300	300-312	312-324	324-336	336-348	348-360	360-372	372-384	384-Ult
1989	0.000	0.000	1.837	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1990	364.994	1.499	1.438	1.201	1.167	1.124	1.080	1.056	1.064	1.053	1.067	1.042	1.027	1.050	1.045	1.018	1.033	1.014	1.018	1.012	1.009	1.007	1.013	1.005	1.011	1.010	1.007	1.005	1.003	1.006		
1991	2.524	2.040	1.486	1.351	1.287	1.207	1.106	1.077	1.072	1.054	1.060	1.043	1.048	1.047	1.042	1.011	1.030	1.020	1.014	1.012	1.006	1.006	1.015	1.017	1.011	1.012	1.009	1.012	1.012			
1992	9.396	2.198	1.775	1.239	1.170	1.101	1.062	1.058	1.067	1.032	1.073	1.037	1.063	1.033	1.037	1.044	1.008	1.025	1.007	1.020	1.006	1.011	1.005	1.006	1.004	1.002	1.001	1.001				
1993	10.709	1.838	1.591	1.383	1.133	1.122	1.212	1.069	1.109	1.061	1.069	1.048	1.091	1.032	1.033	1.039	1.019	1.031	1.012	1.015	1.021	1.016	1.018	1.021	1.013	1.021	1.021	1.020				
1994	72.120	2.257	1.347	1.291	1.116	1.120	1.106	1.088	1.064	1.078	1.072	1.060	1.046	1.059	1.024	1.036	1.029	1.010	1.022	1.018	1.012	1.011	1.028	1.008	1.016	1.008	1.016	1.009				
1995	6.362	2.263	1.455	1.253	1.179	1.119	1.103	1.094	1.105	1.068	1.066	1.027	1.051	1.041	1.013	1.054	1.032	1.056	1.043	1.030	1.023	1.012	1.008	1.004	1.008	1.004	1.004					
1996	4.060	1.911	1.454	1.290	1.180	1.122	1.107	1.144	1.105	1.078	1.062	1.076	1.050	1.036	1.037	1.059	1.037	1.027	1.021	1.008	1.008	1.007	1.004	1.007								
1997	7.125	2.081	1.165	1.198	1.141	1.116	1.082	1.075	1.039	1.072	1.082	1.045	1.047	1.030	1.046	1.032	1.050	1.023	1.018	1.008	1.004	1.008	1.002									
1998	17.384	1.484	1.355	1.198	1.155	1.146	1.056	1.155	1.112	1.139	1.073	1.037	1.032	1.056	1.045	1.079	1.068	1.036	1.057	1.053	1.023	1.028										
1999	9.502	1.958	1.246	1.218	1.093	1.073	1.092	1.049	1.033	1.054	1.023	1.042	1.047	1.022	1.033	1.063	1.030	1.024	1.026	1.015	1.055											
2000	0.000	4.717	1.347	1.060	1.426	1.030	1.100	1.041	1.127	1.027	1.036	1.016	1.052	1.024	1.072	1.126	1.057	1.049	1.031	1.047												
2001	0.000	2.360	2.957	1.224	1.072	1.472	1.139	1.160	1.141	1.067	1.036	1.069	1.096	1.041	1.110	1.079	1.039	1.040	1.008													
2002	0.000	14.368	1.215	1.266	1.023	1.031	1.789	1.100	1.276	1.151	1.073	1.050	1.042	1.050	1.011	1.003	1.002	1.090														
2003	0.000	1.675	1.560	1.304	1.233	1.501	1.359	1.258	1.032	1.115	1.069	1.011	1.008	1.023	1.010	1.056	1.007															
2004	7.560	8.186	1.904	1.246	1.157	1.122	1.421	1.012	1.041	1.045	1.009	1.082	1.027	1.024	1.020	1.017																
2005	0.000	2.297	1.548	1.070	1.265	1.048	1.302	1.091	1.206	1.096	1.104	1.114	1.044	1.090	1.146																	
2006	7.506	3.338	2.143	1.219	1.181	1.149	1.233	1.355	1.106	1.115	1.042	1.019	1.079	1.055																		
2007	4.162	4.885	1.291	1.899	1.225	1.229	1.250	1.152	1.137	1.110	1.020	1.011	1.086																			
2008	0.000	8.122	1.322	1.241	1.389	1.498	1.268	1.205	1.201	1.134	1.084	1.060																				
2009	0.000	1.236	1.573	1.090	1.186	1.160	1.163	1.101	1.093	1.251	1.075																					
2010	0.000	1.945	2.231	1.783	1.228	1.247	1.093	1.094	1.063	1.148																						
2011	0.000	1,122.523	1.142	1.161	1.170	1.172	1.130	1.087	1.055																							
2012	0.000	23.978	1.203	2.013	1.317	1.156	1.142	1.212																								
2013	0.000	2.459	1.483	1.297	1.167	1.084	1.107																									
2014	54.685	2.339	1.759	1.262	1.281	1.215																										
2015	26.823	3.849	1.158	1.102	1.213																											
2016	0.000	4.154	1.337	1.158																												
2017	9.489	2.892	1.547																													
2018	0.000	3.949																														
2019	0.000																															
Average	38.400	42.718	1.568	1.286	1.191	1.168	1.180	1.114	1.097	1.088	1.057	1.045	1.048	1.040	1.043	1.045	1.029	1.032	1.021	1.020	1.015	1.010	1.010	1.009	1.009	1.009	1.007	1.004	1.005	1.003	1.000	
3 Year Average	9.489	3.665	1.347	1.174	1.220	1.152	1.126	1.131	1.067	1.177	1.059	1.030	1.070	1.056	1.059	1.025	1.016	1.060	1.022	1.038	1.027	1.014	1.005	1.006	1.012	1.011	1.010	1.006	1.005	1.003	1.000	
Volume Weighted Average	7.028	2.058	1.477	1.272	1.192	1.146	1.117	1.092	1.085	1.072	1.065	1.047	1.051	1.043	1.039	1.037	1.030	1.026	1.020	1.017	1.012	1.010	1.012	1.011	1.010	1.011	1.009	1.007	1.008	1.006	1.000	
Weighted Average Excluding Last 1 Years	29.772	3.308	1.383	1.344	1.233	1.204	1.173	1.157	1.127	1.148	1.059	1.045	1.050	1.049	1.041	1.071	1.048	1.029	1.032	1.020	1.015	1.011	1.012	1.011	1.011	1.011	1.007	1.009	1.003	1.000		
5 Year Volume Weighted Average	18.276	3.190	1.448	1.279	1.242	1.184	1.131	1.140	1.111	1.161	1.066	1.052	1.060	1.057	1.077	1.062	1.030	1.039	1.033	1.019	1.018	1.012	1.012	1.009	1.010	1.011	1.009	1.007	1.008	1.006	1.000	
Weighted Average 3 Year Volume	9.489	3.824	1.281	1.190	1.237	1.172	1.126	1.138	1.071	1.186	1.064	1.033	1.070	1.065	1.091	1.022	1.016	1.059	1.024	1.039	1.025	1.012	1.005	1.006	1.012	1.010	1.009	1.007	1.008	1.006	1.000	
Weighted Average Excluding Last 1 Years	18.276	3.149	1.441	1.313	1.249	1.163	1.136	1.123	1.119	1.164	1.062	1.048	1.050	1.058	1.037	1.069	1.033	1.034	1.035	1.017	1.014	1.009	1.013	1.010	1.010	1.011	1.007	1.009	1.003	1.000		
Volume Weighted Average Excluding High/Low	8.366	2.064	1.478	1.266	1.190	1.145	1.114	1.088	1.084	1.067	1.064	1.046	1.047	1.042	1.037	1.036	1.028	1.025	1.018	1.015	1.011	1.009	1.011	1.009	1.010	1.009	1.007	1.003	1.003			
Weighted Average Excluding High/Low	-8.000	3.653	1.414	1.237	1.243	1.193	1.126	1.129	1.092	1.132	1.070	1.048	1.057	1.048	1.045	1.054	1.029	1.039	1.023	1.017	1.016	1.011	1.010	1.007	1.011	1.011	1.007	1.003	1.003			
Inverse Power Curve	5.916	2.370	1.649	1.382	1.253	1.181	1.136	1.106	1.086	1.070	1.059	1.050	1.043	1.038	1.033	1.030	1.026	1.024	1.022	1.020	1.018	1.016	1.015	1.014	1.014	1.013	1.012	1.011	1.011	1.009	1.009	1.068
Selected	<u>7.028</u>	<u>2.064</u>	<u>1.478</u>	<u>1.266</u>	<u>1.190</u>	<u>1.145</u>	<u>1.114</u>	<u>1.123</u>	<u>1.119</u>	<u>1.164</u>	<u>1.062</u>	<u>1.048</u>	<u>1.050</u>	<u>1.058</u>	<u>1.037</u>	<u>1.069</u>	<u>1.033</u>	<u>1.034</u>	<u>1.035</u>	<u>1.017</u>	<u>1.014</u>	<u>1.009</u>	<u>1.013</u>	<u>1.010</u>	<u>1.010</u>	<u>1.011</u>	<u>1.009</u>	<u>1.007</u>	<u>1.008</u>	<u>1.009</u>	<u>1.009</u>	<u>1.010</u>
Cumulative	104.706	14.899	7.219	4.883	3.858	3.241	2.831	2.541	2.263	2.022	1.738	1.637	1.562	1.488	1.406	1.356	1.268	1.228	1.187	1.147	1.128	1.112	1.102	1.088	1.077	1.066	1.054	1.044	1.037	1.028	1.019	1.010
Ratio to Ultimate	0.010	0.067	0.139	0.205	0.259	0.309	0.353	0.394	0.442	0.495	0.576	0.611	0.640	0.672	0.711	0.738	0.789	0.814	0.842	0.872	0.887	0.899	0.908	0.919	0.928	0.938	0.948	0.957	0.964	0.972	0.982	0.990

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 8

Ultimate Loss Based on Average Loss
As of 06/30/2021

Notification Year	Ultimate Claims	Selected Average Loss	Ultimate Loss (1) x (2)
	(1)	(2)	(3)
1989	1	22,040	\$ 22,040
1990	323	92,000	29,716,000
1991	623	78,000	48,594,000
1992	348	76,000	26,448,000
1993	352	64,000	22,528,000
1994	276	58,000	16,008,000
1995	274	68,000	18,632,000
1996	445	62,000	27,590,000
1997	158	51,000	8,058,000
1998	211	49,000	10,339,000
1999	104	67,000	6,968,000
2000	65	41,000	2,665,000
2001	34	52,000	1,768,000
2002	45	43,000	1,935,000
2003	53	25,000	1,325,000
2004	40	28,000	1,120,000
2005	60	52,000	3,120,000
2006	61	59,000	3,599,000
2007	69	51,000	3,519,000
2008	73	60,000	4,380,000
2009	77	62,000	4,774,000
2010	34	65,000	2,210,000
2011	47	59,000	2,773,000
2012	68	57,000	3,876,000
2013	49	57,000	2,793,000
2014	68	59,000	4,012,000
2015	44	59,000	2,596,000
2016	45	60,000	2,700,000
2017	39	58,000	2,262,000
2018	49	57,000	2,793,000
2019	55	57,000	3,135,000
2020	4	57,000	228,000
Total	4,194		\$ 272,486,040

Notes:

1. Column (1) is from Reported Exhibit 28, column (5).
2. Selected average loss in column (2) is from Reported Exhibit 10, column (4).

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 9

Ultimate Loss Based on Bornhuetter-Ferguson Using Average Loss and Paid Loss
As of 06/30/2021

Notification Year	Ultimate Claims	Selected Average Loss	Expected Ultimate Loss (1) x (2)	Selected Development Factors	Cumulative Development Factors	Ratio of Cumulative Paid Loss to Ultimate Loss 1 / (5)	Ratio of Undeveloped Paid Loss to Ultimate Loss Face Value 1 - (6)	Undeveloped Paid Loss (3) x (7)	Cumulative Paid Loss	Ultimate Loss (8) + (9)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1989	1	\$ 22,040	\$ 22,040	1.010	1.010	0.990	0.010	\$ 218	\$ 22,040	\$ 22,258
1990	323	92,000	29,716,000	1.009	1.019	0.982	0.018	549,472	29,548,265	30,097,737
1991	623	78,000	48,594,000	1.009	1.028	0.972	0.028	1,337,879	48,991,614	50,329,493
1992	348	76,000	26,448,000	1.008	1.037	0.964	0.036	942,315	25,960,048	26,902,363
1993	352	64,000	22,528,000	1.007	1.044	0.957	0.043	959,684	22,631,404	23,591,088
1994	276	58,000	16,008,000	1.009	1.054	0.948	0.052	825,821	15,500,518	16,326,339
1995	274	68,000	18,632,000	1.011	1.066	0.938	0.062	1,154,580	18,188,378	19,342,958
1996	445	62,000	27,590,000	1.010	1.077	0.928	0.072	1,976,916	26,593,144	28,570,059
1997	158	51,000	8,058,000	1.010	1.088	0.919	0.081	649,642	7,484,291	8,133,933
1998	211	49,000	10,339,000	1.013	1.102	0.908	0.092	955,001	9,994,955	10,949,956
1999	104	67,000	6,968,000	1.009	1.112	0.899	0.101	701,641	6,320,801	7,022,442
2000	65	41,000	2,665,000	1.014	1.128	0.887	0.113	301,852	2,674,127	2,975,979
2001	34	52,000	1,768,000	1.017	1.147	0.872	0.128	226,769	1,616,051	1,842,819
2002	45	43,000	1,935,000	1.035	1.187	0.842	0.158	305,210	1,826,237	2,131,447
2003	53	25,000	1,325,000	1.034	1.228	0.814	0.186	245,829	1,160,717	1,406,546
2004	40	28,000	1,120,000	1.033	1.268	0.789	0.211	236,579	992,540	1,229,119
2005	60	52,000	3,120,000	1.069	1.356	0.738	0.262	818,722	3,255,938	4,074,660
2006	61	59,000	3,599,000	1.037	1.406	0.711	0.289	1,040,131	3,025,315	4,065,445
2007	69	51,000	3,519,000	1.058	1.488	0.672	0.328	1,154,440	3,041,832	4,196,272
2008	73	60,000	4,380,000	1.050	1.562	0.640	0.360	1,576,199	3,992,140	5,568,339
2009	77	62,000	4,774,000	1.048	1.637	0.611	0.389	1,857,194	5,064,419	6,921,613
2010	34	65,000	2,210,000	1.062	1.738	0.576	0.424	938,143	2,611,507	3,549,650
2011	47	59,000	2,773,000	1.164	2.022	0.495	0.505	1,401,400	1,492,673	2,894,074
2012	68	57,000	3,876,000	1.119	2.263	0.442	0.558	2,162,981	2,474,585	4,637,566
2013	49	57,000	2,793,000	1.123	2.541	0.394	0.606	1,693,748	1,775,979	3,469,727
2014	68	59,000	4,012,000	1.114	2.831	0.353	0.647	2,594,794	4,401,336	6,996,129
2015	44	59,000	2,596,000	1.145	3.241	0.309	0.691	1,795,003	1,749,098	3,544,101
2016	45	60,000	2,700,000	1.190	3.858	0.259	0.741	2,000,128	1,676,349	3,676,476
2017	39	58,000	2,262,000	1.266	4.883	0.205	0.795	1,798,756	452,187	2,250,943
2018	49	57,000	2,793,000	1.478	7.219	0.139	0.861	2,406,117	256,813	2,662,930
2019	55	57,000	3,135,000	2.064	14.899	0.067	0.933	2,924,586	264,394	3,188,980
2020	4	57,000	228,000	7.028	104.706	0.010	0.990	225,822	-	225,822
Total	4,194		\$272,486,040					\$ 37,757,572	\$255,039,695	\$ 292,797,263

Notes:

1. Column (1) is from Reported Exhibit 28, column (5).
2. Selected average loss in column (2) is from Reported Exhibit 10, column (4).
3. Development factors in columns (4) and (5) are selected in Reported Exhibit 7.
4. Cumulative Paid Loss in column (9) is estimated using values available at April 30, 2021.

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 10

Preliminary Average Loss Based on Prior Year Estimated Ultimate Loss
As of 06/30/2021

Notification Year	Ultimate Loss Prior Year	Ultimate Claims	Preliminary Average Loss (1) / (2)	Selected Average Loss
_____	(1)	(2)	(3)	(4)
1989	22,040	1	22,040	22,040
1990	29,566,200	323	91,536	92,000
1991	48,879,200	623	78,458	78,000
1992	26,599,700	348	76,436	76,000
1993	22,592,900	352	64,184	64,000
1994	15,942,300	276	57,762	58,000
1995	18,697,600	274	68,239	68,000
1996	27,648,900	445	62,132	62,000
1997	7,987,500	158	50,554	51,000
1998	10,346,300	211	49,035	49,000
1999	6,938,300	104	66,714	67,000
2000	2,669,100	65	41,063	41,000
2001	1,767,400	34	51,982	52,000
2002	1,914,700	45	42,549	43,000
2003	1,328,300	53	25,062	25,000
2004	1,103,400	40	27,585	28,000
2005	3,122,100	60	52,035	52,000
2006	3,576,000	61	58,623	59,000
2007	3,538,300	69	51,280	51,000
2008	4,414,100	73	60,467	60,000
2009	4,957,700	77	64,386	62,000
2010	2,356,500	34	69,309	65,000
2011	2,060,100	47	43,832	59,000
2012	3,314,100	68	48,737	57,000
2013	2,717,000	49	55,449	57,000
2014	4,845,000	68	71,250	59,000
2015	2,607,300	44	59,257	59,000
2016	2,843,000	45	63,178	60,000
2017	1,836,800	39	47,097	58,000
2018	2,039,500	49	41,622	57,000
2019	1,221,600	55	22,211	57,000
2020	0	4	0	57,000
Total	269,452,940	4,194		

Notes:

1. Column (1) is from the Estimated Unpaid Claims Liability Report as of June 30, 2020, Reported Exhibit 4, column (7).
2. Column (2) is from Reported Exhibit 28, column (5).
3. Selected average loss in column (4) is based on column (3) for notification years 1989 - 2008; the rounded average of column (3) from notification year 2008 through the associated year for notification years 2009 - 2018; and the rounded average of column (3) from notification year 2008 through 2018 for notification years 2019 and 2020.

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 11

Cumulative Paid Loss per Cumulative Reported Claims
As of 06/30/2021

Notification Year	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324	336	348	360	372	384	
1989	0	0	12,000	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	
1990	39	14,217	21,313	30,652	36,301	42,953	48,297	52,172	55,699	59,599	61,659	65,809	69,595	70,460	73,989	77,303	78,708	81,304	82,403	83,898	84,860	85,517	86,198	87,344	87,824	88,752	89,652	90,280	90,687	90,946	91,481		
1991	2,390	6,034	12,311	18,292	24,706	31,792	38,359	42,440	45,716	49,014	51,663	54,783	57,127	59,857	62,683	65,315	68,046	68,044	69,383	70,347	71,226	71,640	72,051	73,097	74,369	75,163	76,076	77,125	78,638				
1992	707	6,641	14,601	25,919	32,110	37,559	41,353	43,916	46,478	49,584	51,193	54,939	56,991	60,610	62,597	64,938	67,812	68,381	70,065	70,550	71,988	72,377	73,163	73,553	73,558	74,289	74,428	74,539	74,598				
1993	461	4,952	9,063	14,421	19,939	22,597	25,361	30,732	32,843	36,427	38,659	41,326	43,330	47,293	48,785	50,418	52,360	53,340	54,986	55,651	56,502	57,706	58,006	59,666	60,934	61,737	63,054	64,294					
1994	73	5,269	11,935	16,083	20,770	23,169	25,947	28,696	31,220	33,210	36,800	38,371	40,692	42,564	45,092	46,154	47,801	49,178	49,685	50,773	51,701	52,300	52,881	54,369	54,794	55,669	56,161						
1995	860	5,407	12,233	17,797	22,305	26,294	29,413	32,455	35,222	39,268	41,927	44,693	45,899	48,252	50,208	50,876	53,616	55,336	58,415	60,919	62,767	64,241	65,403	65,589	65,848	66,381							
1996	1,339	5,435	10,385	15,104	19,487	23,001	25,799	28,562	32,686	36,110	38,937	41,337	44,498	46,707	48,411	50,222	53,190	55,144	56,621	57,827	58,285	58,733	59,130	59,341	59,760								
1997	944	6,725	13,994	16,304	19,534	22,285	24,866	26,902	28,911	30,953	32,222	34,877	36,443	38,160	39,291	41,084	42,392	44,521	45,552	46,361	46,739	46,904	47,260	47,399									
1998	313	5,437	8,066	10,932	13,097	15,123	17,325	18,291	21,123	23,495	26,754	28,719	29,775	30,730	32,465	33,926	36,597	39,096	40,493	42,791	45,039	46,090	47,369										
1999	1,015	9,640	18,872	23,521	28,847	31,303	33,601	36,701	38,497	39,778	41,917	42,881	44,690	46,785	47,807	49,370	52,486	54,072	55,353	56,778	57,618	60,777											
2000	0	1,914	9,027	12,159	12,885	18,379	18,933	20,829	21,675	24,419	25,081	25,979	26,400	27,766	28,427	30,481	34,332	36,288	38,084	39,281	41,140												
2001	0	1,355	3,225	9,536	11,677	12,513	18,416	20,968	24,322	27,757	29,624	30,705	32,832	35,003	36,432	40,426	43,612	45,320	47,139	47,531													
2002	0	441	6,340	7,703	9,753	9,980	10,286	18,399	20,248	25,845	29,742	31,902	33,497	34,900	36,631	37,044	37,149	37,220	40,583														
2003	0	1,475	2,471	3,853	5,026	6,198	9,306	12,648	15,917	16,420	18,308	19,574	19,783	19,940	20,403	20,598	21,746	21,900															
2004	70	528	4,325	8,235	10,257	11,866	13,319	18,923	19,156	19,936	20,828	21,010	22,727	23,352	23,912	24,400	24,813																
2005	0	3,572	8,207	12,706	13,593	17,198	18,026	23,470	25,601	30,873	33,850	37,378	41,637	43,476	47,372	54,266																	
2006	224	1,683	5,617	12,036	14,667	17,321	19,904	24,542	33,254	36,770	41,012	42,731	43,555	46,993	49,595																		
2007	289	1,204	5,860	7,550	14,415	17,653	21,690	27,119	31,232	35,511	39,403	40,175	40,600	44,085																			
2008	0	568	4,811	8,861	10,995	15,269	22,875	29,013	34,950	41,965	47,596	51,589	54,687																				
2009	0	12,090	14,948	23,518	25,637	30,403	35,271	41,007	45,156	48,914	61,195	65,772																					
2010	0	4,455	6,663	19,327	34,451	42,321	52,760	57,655	63,065	67,009																							
2011	0	12	13,491	15,408	17,887	20,921	24,515	27,692	30,098	31,759																							
2012	0	297	7,132	8,577	17,267	22,747	26,298	30,021	36,391																								
2013	0	5,466	13,443	19,941	25,872	30,198	32,745	36,244																									
2014	147	8,016	18,748	30,969	41,603	53,262	64,728																										
2015	249	6,676	25,693	29,759	32,781	39,752																											
2016	0	5,790	24,056	32,156	37,252																												
2017	273	2,991	7,494	11,595																													
2018	0	1,327	5,241																														
2019	0	4,807																															
2020	0																																

Note: Paid loss and reported claims are estimated using values available at April 30, 2021.

Cumulative Paid Loss on Closed Claims per Cumulative Closed Claims
As of 06/30/2021

Notification Year	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324	336	348	360	372	384
1989	0	0	0	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040	22,040
1990	0	540,082	149,676	113,917	105,375	96,507	100,313	101,251	100,510	100,308	100,166	102,774	101,069	94,695	94,342	96,112	93,329	93,013	92,382	90,914	91,747	90,847	90,222	89,845	88,731	87,735	87,517	87,170	86,647	86,441	85,934	
1991	496,380	73,355	53,451	54,268	61,429	69,482	76,494	77,537	76,249	78,641	77,990	76,859	75,316	74,115	74,148	72,948	71,588	71,007	71,062	70,962	71,146	70,775	70,231	70,590	70,356	70,337	70,421	70,107	70,268	70,185		
1992	81,989	40,971	60,023	76,916	78,685	82,544	84,963	82,596	82,232	83,673	77,035	77,749	71,812	69,762	68,534	69,305	70,290	70,091	70,471	69,916	69,896	69,164	69,591	69,860	69,102	69,047	68,840	68,835	68,635			
1993	40,527	36,989	43,644	51,115	60,275	58,021	54,126	58,965	57,656	57,377	56,842	54,139	53,462	54,333	54,370	55,150	56,245	55,035	56,188	55,962	54,991	54,824	55,228	55,095	55,227	54,814	55,458	55,337				
1994	10,120	51,545	58,197	64,593	72,124	63,639	60,132	62,688	58,829	56,682	51,733	53,127	50,794	50,655	51,520	52,361	52,344	51,884	51,492	52,036	51,778	51,904	51,766	52,058	51,769	51,601	51,601					
1995	24,300	41,447	59,698	64,625	60,296	61,584	61,869	61,883	61,013	58,616	58,855	55,267	55,107	55,837	56,010	55,721	56,188	56,243	56,680	57,234	58,048	58,942	59,259	59,224	58,968	58,777						
1996	21,638	31,046	43,654	52,927	54,818	55,104	49,856	48,441	48,149	50,165	50,671	51,827	53,074	52,863	53,365	53,816	55,271	55,031	55,615	55,146	54,693	54,386	54,344	54,372	54,304							
1997	149,129	62,499	68,104	58,238	58,565	53,246	47,236	43,344	42,610	40,145	41,617	43,568	43,627	43,440	43,039	43,691	44,162	45,782	44,617	43,232	43,232	43,232	43,232	43,232	43,232							
1998	0	64,629	50,602	51,845	36,334	31,932	32,269	31,056	32,348	32,449	35,140	35,948	36,628	36,351	36,993	36,774	36,678	37,322	37,865	37,523	37,342	36,847	36,520									
1999	102,896	137,738	104,193	88,844	60,892																											

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 12

Ultimate Loss Based on Ultimate Face Value Less Disallowed Costs Less Deductible Recoveries
As of 06/30/2021

Notification Year	Ultimate Gross Face Value (1)	Ultimate Disallowed Costs (2)	Ultimate Deductible Recoveries (3)	Ultimate Loss (1) - (2) - (3) (4)
1989	\$ 38,000	\$ 5,548	\$ 10,125	\$ 22,327
1990	47,708,000	9,064,520	9,158,505	29,484,975
1991	79,589,000	14,564,787	16,516,150	48,508,063
1992	43,940,000	8,612,240	9,185,218	26,142,542
1993	38,758,000	7,751,600	8,867,830	22,138,570
1994	29,225,000	5,728,100	7,730,480	15,766,420
1995	31,866,000	6,436,932	7,247,284	18,181,784
1996	48,204,000	9,158,760	11,830,708	27,214,532
1997	12,968,000	1,919,264	3,237,280	7,811,456
1998	20,205,000	4,041,000	5,722,056	10,441,944
1999	11,942,000	2,388,400	2,264,203	7,289,397
2000	5,349,000	1,069,800	1,827,218	2,451,982
2001	4,562,000	1,277,360	1,639,035	1,645,605
2002	4,783,000	956,600	1,924,679	1,901,721
2003	3,933,000	786,600	1,771,423	1,374,977
2004	3,406,000	681,200	1,743,872	980,928
2005	7,366,000	1,473,200	3,276,397	2,616,403
2006	8,358,000	1,671,600	3,363,259	3,323,141
2007	8,130,000	1,626,000	3,089,400	3,414,600
2008	11,181,000	2,638,716	4,749,510	3,792,774
2009	11,705,000	2,762,380	4,972,097	3,970,523
2010	5,259,000	1,241,124	2,233,939	1,783,937
2011	5,291,000	1,248,676	2,247,532	1,794,792
2012	9,251,000	2,183,236	3,929,677	3,138,087
2013	7,174,000	1,693,064	3,047,400	2,433,536
2014	11,349,000	2,678,364	4,820,874	3,849,762
2015	6,756,000	1,594,416	2,869,841	2,291,743
2016	7,040,000	1,661,440	2,990,479	2,388,081
2017	5,796,000	1,367,856	2,462,048	1,966,096
2018	7,108,000	1,677,488	3,019,365	2,411,147
2019	8,696,000	2,052,256	3,693,922	2,949,822
2020	623,000	147,028	264,640	211,332
Total	\$507,559,000	\$102,159,555	\$141,706,446	\$263,692,999

Notes:

1. Column (1) is from Reported Exhibit 16, column (4).
2. Column (2) is from Reported Exhibit 24, column (3).
3. Column (3) is from Reported Exhibit 26, column (5).

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 13

Bornhuetter-Ferguson Using Gross Face Value and Paid Loss
As of 06/30/2021

Notification Year	Gross Face Value	Selected Ratio	Expected Ultimate Loss (1) x (2)	Selected Development Factors	Cumulative Development Factors	Ratio of Cumulative Paid Loss to Ultimate Loss 1 / (5)	Ratio of Undeveloped Paid Loss to Ultimate Loss 1 - (6)	Undeveloped Paid Loss (3) x (7)	Cumulative Paid Loss	Ultimate Loss (8) + (9)	Calculated Ratio of Loss to Gross Face Value (10) / (11)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1989	\$ 38,000	0.588	\$ 22,327	\$ 1.010	1.010	0.990	0.010	\$ 221	\$ 22,040	\$ 22,261	0.586
1990	47,708,000	0.618	29,484,975	1.009	1.019	0.982	0.018	545,200	29,548,265	30,093,465	0.631
1991	79,589,000	0.609	48,508,063	1.009	1.028	0.972	0.028	1,335,513	48,991,614	50,327,127	0.632
1992	43,940,000	0.595	26,142,542	1.008	1.037	0.964	0.036	931,432	25,960,048	26,891,480	0.612
1993	38,758,000	0.571	22,138,570	1.007	1.044	0.957	0.043	943,095	22,631,404	23,574,498	0.608
1994	29,225,000	0.539	15,766,420	1.009	1.054	0.948	0.052	813,358	15,500,518	16,313,877	0.558
1995	31,866,000	0.571	18,181,784	1.011	1.066	0.938	0.062	1,126,681	18,188,378	19,315,059	0.606
1996	48,204,000	0.565	27,214,532	1.010	1.077	0.928	0.072	1,950,012	26,593,144	28,543,156	0.592
1997	12,968,000	0.602	7,811,456	1.010	1.088	0.919	0.081	629,766	7,484,291	8,114,057	0.626
1998	20,205,000	0.517	10,441,944	1.013	1.102	0.908	0.092	964,510	9,994,955	10,959,465	0.542
1999	11,942,000	0.610	7,289,397	1.009	1.112	0.899	0.101	734,004	6,320,801	7,054,805	0.591
2000	5,349,000	0.458	2,451,982	1.014	1.128	0.887	0.113	277,724	2,674,127	2,951,851	0.552
2001	4,562,000	0.361	1,645,605	1.017	1.147	0.872	0.128	211,070	1,616,051	1,827,121	0.401
2002	4,783,000	0.398	1,901,721	1.035	1.187	0.842	0.158	299,961	1,826,237	2,126,198	0.445
2003	3,933,000	0.350	1,374,977	1.034	1.228	0.814	0.186	255,102	1,160,717	1,415,819	0.360
2004	3,406,000	0.288	980,928	1.033	1.268	0.789	0.211	207,203	992,540	1,199,742	0.352
2005	7,366,000	0.355	2,616,403	1.069	1.356	0.738	0.262	686,573	3,255,938	3,942,511	0.535
2006	8,358,000	0.398	3,323,141	1.037	1.406	0.711	0.289	960,406	3,025,315	3,985,721	0.477
2007	8,130,000	0.420	3,414,600	1.058	1.488	0.672	0.328	1,120,190	3,041,832	4,162,022	0.512
2008	11,181,000	0.339	3,792,774	1.050	1.562	0.640	0.360	1,364,878	3,992,140	5,357,018	0.479
2009	11,705,000	0.339	3,970,523	1.048	1.637	0.611	0.389	1,544,624	5,064,419	6,609,042	0.565
2010	5,259,000	0.339	1,783,937	1.062	1.738	0.576	0.424	757,280	2,611,507	3,368,786	0.641
2011	5,291,000	0.339	1,794,792	1.164	2.022	0.495	0.505	907,040	1,492,673	2,399,713	0.454
2012	9,251,000	0.339	3,138,087	1.119	2.263	0.442	0.558	1,751,193	2,474,585	4,225,778	0.457
2013	7,174,000	0.339	2,433,536	1.123	2.541	0.394	0.606	1,475,759	1,775,979	3,251,738	0.453
2014	11,349,000	0.339	3,849,762	1.114	2.831	0.353	0.647	2,489,865	4,401,336	6,891,201	0.607
2015	6,756,000	0.339	2,291,743	1.145	3.241	0.309	0.691	1,584,625	1,749,098	3,333,723	0.493
2016	7,040,000	0.339	2,388,081	1.190	3.858	0.259	0.741	1,769,062	1,676,349	3,445,410	0.489
2017	5,796,000	0.339	1,966,096	1.266	4.883	0.205	0.795	1,563,451	452,187	2,015,638	0.348
2018	7,108,000	0.339	2,411,147	1.478	7.219	0.139	0.861	2,077,158	256,813	2,333,971	0.328
2019	8,696,000	0.339	2,949,822	2.064	14.899	0.067	0.933	2,751,837	264,394	3,016,231	0.347
2020	623,000	0.339	211,332	7.028	104.706	0.010	0.990	209,313	-	209,313	0.336
Total	\$507,559,000		\$ 263,692,999					\$ 34,238,106	\$255,039,695	\$ 289,277,797	

Notes:

1. Column (1) is from Reported Exhibit 16, column (4).
2. Column (2) is the complement of Reported Exhibit 24, column (2) multiplied by the complement of Reported Exhibit 26, column (4).
3. Development factors in columns (4) and (5) are selected in Reported Exhibit 7.
4. Cumulative paid loss in column (9) is estimated using values available at April 30, 2021.

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 15

Estimated Average Gross Face Value
As of 06/30/2021

Notification Year	Ultimate Gross Face Value	Ultimate Claims	Ultimate Average Gross Face Value (1) / (2)	Change in Ultimate Average Gross Face Value	Percentage Change (4) / Prior (3)
	(1)	(2)	(3)	(4)	(5)
1989	38,000	1	38,000		
1990	47,708,000	323	147,703	109,703	288.692
1991	79,589,000	623	127,751	-19,952	-13.508
1992	43,940,000	348	126,264	-1,487	-1.164
1993	38,758,000	352	110,108	-16,156	-12.796
1994	29,225,000	276	105,888	-4,220	-3.833
1995	31,866,000	274	116,299	10,412	9.833
1996	48,204,000	445	108,324	-7,976	-6.858
1997	12,968,000	158	82,076	-26,248	-24.231
1998	20,205,000	211	95,758	13,682	16.670
1999	11,942,000	104	114,827	19,069	19.913
2000	5,349,000	65	82,292	-32,535	-28.334
2001	4,562,000	34	134,176	51,884	63.049
2002	4,783,000	45	106,289	-27,888	-20.784
2003	3,933,000	53	74,208	-32,081	-30.183
2004	3,406,000	40	85,150	10,942	14.746
2005	7,366,000	60	122,767	37,617	44.177
2006	8,358,000	61	137,016	14,250	11.607
2007	8,130,000	69	117,826	-19,190	-14.006
2008	11,181,000	73	153,164	35,338	29.992
2009	11,705,000	77	152,013	-1,151	-0.752
2010	5,259,000	34	154,676	2,663	1.752
2011	5,291,000	47	112,574	-42,102	-27.219
2012	9,251,000	68	136,044	23,470	20.848
2013	7,174,000	49	146,408	10,364	7.618
2014	11,349,000	68	166,897	20,489	13.994
2015	6,756,000	44	153,545	-13,352	-8.000
2016	7,040,000	45	156,444	2,899	1.888
2017	5,796,000	39	148,615	-7,829	-5.004
2018	7,108,000	49	145,061	-3,554	-2.392
2019	8,696,000	55	158,109	13,048	8.995
2020	623,000	4	155,750	-2,359	-1.492
Total	507,559,000	4,194			
Exponential Fit:					
Trend (%)			1.910		
Intercept			87,498		
R Squared			0.343		

Notes:

1. Column (1) is from Reported Exhibit 16, column (4).
2. Column (2) is from Reported Exhibit 28, column (5).

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 16

Comparison of Ultimate Gross Face Value Estimates
As of 06/30/2021

Notification Year	Gross Face Value Development	Average Gross Face Value	Bornhuetter- Ferguson Using Average Gross Face Value	Ultimate Gross Face Value
(1)	(2)	(3)	(4)	
1989	\$ 37,901	\$ 38,000	\$ 37,902	\$ 38,000
1990	47,658,732	47,804,000	47,661,029	47,708,000
1991	79,508,804	79,744,000	79,513,903	79,589,000
1992	43,988,374	43,848,000	43,984,567	43,940,000
1993	38,778,609	38,720,000	38,776,729	38,758,000
1994	29,208,452	29,256,000	29,210,329	29,225,000
1995	31,909,684	31,784,000	31,904,161	31,866,000
1996	48,282,174	48,060,000	48,270,788	48,204,000
1997	12,974,735	12,956,000	12,973,652	12,968,000
1998	20,177,649	20,256,000	20,182,668	20,205,000
1999	11,932,386	11,960,000	11,934,341	11,942,000
2000	5,360,070	5,330,000	5,357,665	5,349,000
2001	4,565,416	4,556,000	4,564,586	4,562,000
2002	4,790,474	4,770,000	4,788,257	4,783,000
2003	3,940,425	3,922,000	3,938,063	3,933,000
2004	3,409,587	3,400,000	3,408,202	3,406,000
2005	7,357,408	7,380,000	7,361,019	7,366,000
2006	8,358,263	8,357,000	8,358,035	8,358,000
2007	8,121,769	8,142,000	8,125,951	8,130,000
2008	11,188,556	11,169,000	11,184,098	11,181,000
2009	11,705,393	11,704,000	11,705,050	11,705,000
2010	6,069,462	4,148,000	5,560,412	5,259,000
2011	4,990,041	5,687,000	5,196,208	5,291,000
2012	9,983,231	8,364,000	9,405,061	9,251,000
2013	8,047,592	6,174,000	7,300,636	7,174,000
2014	13,644,617	8,908,000	11,493,182	11,349,000
2015	7,644,698	5,852,000	6,771,701	6,756,000
2016	7,993,946	6,120,000	7,005,472	7,040,000
2017	6,404,504	5,382,000	5,796,160	5,796,000
2018	7,657,208	6,811,000	7,108,407	7,108,000
2019	11,299,730	7,645,000	8,696,119	8,696,000
2020	1,052,804	556,000	622,817	623,000
Total	\$518,042,694	\$498,803,000	\$508,197,170	\$507,559,000

- Notes:
1. Column (1) is from Reported Exhibit 17, column (4).
 2. Column (2) is from Reported Exhibit 20, column (3).
 3. Column (3) is from Reported Exhibit 21, column (10).
 4. Selected ultimate gross face value in column (4) is based on a rounded average of columns (1) - (3) for notification years 1989 through 2016. Selected ultimate gross face value for notification years 2017 through 2020 is based on column (3).

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 17

Ultimate Gross Face Value Based on Gross Face Value Development
As of 06/30/2021

Notification Year	Cumulative Gross Face Value	Selected Development Factors	Cumulative Development Factors	Ultimate Gross Face Value (1) x (3)
	(1)	(2)	(3)	(4)
1989	\$ 37,526	1.010	1.010	\$ 37,901
1990	46,905,431	1.006	1.016	47,658,732
1991	77,785,364	1.006	1.022	79,508,804
1992	42,795,178	1.006	1.028	43,988,374
1993	37,534,658	1.005	1.033	38,778,609
1994	28,054,982	1.008	1.041	29,208,452
1995	30,507,370	1.005	1.046	31,909,684
1996	45,807,796	1.008	1.054	48,282,174
1997	12,224,691	1.007	1.061	12,974,735
1998	18,885,113	1.007	1.068	20,177,649
1999	11,087,414	1.007	1.076	11,932,386
2000	4,931,377	1.010	1.087	5,360,070
2001	4,162,939	1.009	1.097	4,565,416
2002	4,271,563	1.023	1.121	4,790,474
2003	3,435,267	1.023	1.147	3,940,425
2004	2,916,981	1.019	1.169	3,409,587
2005	6,181,485	1.018	1.190	7,357,408
2006	6,844,324	1.026	1.221	8,358,263
2007	6,442,992	1.032	1.261	8,121,769
2008	8,638,202	1.028	1.295	11,188,556
2009	8,821,196	1.024	1.327	11,705,393
2010	4,461,490	1.025	1.360	6,069,462
2011	3,513,937	1.044	1.420	4,990,041
2012	6,418,573	1.095	1.555	9,983,231
2013	4,839,209	1.069	1.663	8,047,592
2014	7,447,049	1.102	1.832	13,644,617
2015	3,921,930	1.064	1.949	7,644,698
2016	3,777,279	1.086	2.116	7,993,946
2017	2,594,115	1.167	2.469	6,404,504
2018	2,691,192	1.152	2.845	7,657,208
2019	3,249,860	1.222	3.477	11,299,730
2020	141,596	2.138	7.435	1,052,804
Total	\$451,328,079			\$518,042,694

Notes:

1. Cumulative Gross Face Value in column (1) is estimated using values available at April 30, 2021.
2. Development factors in columns (2) and (3) are selected in Reported Exhibit 19.

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 19

Gross Face Value Development
As of 06/30/2021

Notification Year	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-252	252-264	264-276	276-288	288-300	300-312	312-324	324-336	336-348	348-360	360-372	372-384	384-Ult		
1989	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
1990	2.229	1.426	1.096	1.121	1.081	1.043	1.055	1.046	1.114	1.016	1.031	1.064	1.014	1.027	1.026	1.015	1.016	1.014	1.008	1.009	1.009	1.003	1.006	1.009	1.006	1.003	1.004	1.005	1.002	1.005				
1991	2.320	1.316	1.210	1.182	1.122	1.110	1.062	1.168	1.023	1.039	1.048	1.030	1.030	1.017	1.017	1.016	1.015	1.008	1.010	1.009	1.007	1.007	1.007	1.012	1.007	1.006	1.011	1.008	1.008					
1992	3.279	1.644	1.214	1.240	1.067	1.052	1.176	1.021	1.042	1.050	1.033	1.023	1.031	1.030	1.026	1.011	1.009	1.012	1.007	1.008	1.007	1.003	1.003	1.003	1.003	1.002	1.001	1.001	1.001					
1993	2.866	1.618	1.296	1.217	1.117	1.439	1.062	1.070	1.087	1.044	1.035	1.018	1.022	1.018	1.019	1.016	1.014	1.010	1.009	1.011	1.008	1.013	1.011	1.013	1.017	1.008	1.009							
1994	3.992	1.256	1.224	1.153	1.343	1.047	1.047	1.088	1.049	1.038	1.034	1.033	1.031	1.017	1.031	1.013	1.008	1.010	1.016	1.004	1.013	1.013	1.009	1.009	1.009	1.006	1.010							
1995	2.994	1.493	1.342	1.553	1.073	1.114	1.121	1.061	1.090	1.040	1.030	1.018	1.014	1.017	1.018	1.017	1.024	1.027	1.012	1.019	1.011	1.007	1.006	1.004	1.003									
1996	2.211	1.761	2.002	1.094	1.110	1.101	1.104	1.074	1.051	1.053	1.041	1.033	1.027	1.027	1.025	1.023	1.013	1.012	1.008	1.004	1.005	1.005	1.006	1.002	1.007									
1997	2.629	1.581	1.108	1.178	1.141	1.094	1.050	1.042	1.064	1.045	1.043	1.026	1.029	1.019	1.020	1.018	1.027	1.015	1.007	1.005	1.009	1.001	1.010											
1998	3.344	1.272	1.211	1.248	1.089	1.092	1.090	1.077	1.070	1.064	1.041	1.026	1.029	1.022	1.048	1.062	1.025	1.020	1.041	1.026	1.022	1.041												
1999	7.733	1.326	1.208	1.058	1.062	1.029	1.069	1.028	1.023	1.022	1.033	1.026	1.023	1.016	1.018	1.023	1.018	1.032	1.012	1.005	1.035													
2000	2.678	2.176	1.157	1.101	1.175	1.096	1.054	1.034	1.011	1.015	1.021	1.009	1.028	1.021	1.029	1.042	1.026	1.027	1.022	1.017														
2001	3.083	1.399	1.851	1.165	1.043	1.036	1.041	1.041	1.071	1.024	1.006	1.018	1.007	1.023	1.040	1.016	1.027	1.007	1.010															
2002	6.834	1.632	1.365	1.238	1.135	1.073	1.116	1.042	1.052	1.054	1.023	1.008	1.028	1.010	1.020	1.008	1.006	1.059																
2003	2.245	1.885	1.298	1.174	1.116	1.111	1.064	1.024	1.061	1.011	1.025	1.007	1.011	1.013	1.035	1.001	1.064																	
2004	2.845	1.426	1.183	1.084	1.100	1.042	1.043	1.028	1.025	1.016	1.024	1.009	1.010	1.012	1.006	1.036																		
2005	2.271	1.262	1.211	1.115	1.117	1.052	1.081	1.030	1.058	1.048	1.029	1.027	1.040	1.068	1.027																			
2006	3.233	1.545	1.160	1.049	1.071	1.069	1.136	1.049	1.046	1.031	1.012	1.022	1.032	1.012																				
2007	4.162	1.256	1.151	1.219	1.098	1.057	1.048	1.099	1.075	1.020	1.013	1.031	1.009																					
2008	1.838	1.168	1.175	1.166	1.153	1.149	1.082	1.103	1.074	1.070	1.042	1.022																						
2009	2.204	1.139	1.120	1.070	1.074	1.066	1.101	1.053	1.132	1.047	1.065																							
2010	2.641	1.205	1.312	1.117	1.135	1.079	1.058	1.057	1.097	1.079																								
2011	2.109	1.135	1.115	1.065	1.090	1.047	1.089	1.048	1.022																									
2012	3.023	1.220	1.123	1.155	1.096	1.090	1.141	1.124																										
2013	2.505	1.145	1.125	1.110	1.056	1.037	1.053																											
2014	2.638	1.235	1.207	1.240	1.097	1.074																												
2015	1.424	1.173	1.154	1.131	1.073																													
2016	3.078	1.250	1.09	1.055																														
2017	3.222	1.222	1.209																															
2018	1.948	1.440																																
2019	3.560																																	
Average	3.038	1.400	1.232	1.153	1.105	1.084	1.078	1.059	1.058	1.038	1.030	1.022	1.022	1.020	1.024	1.020	1.019	1.018	1.012	1.010	1.011	1.009	1.006	1.007	1.006	1.005	1.005	1.003	1.003	1.003	1.000	1.000		
3 Year Average	2.910	1.304	1.157	1.142	1.075	1.067	1.094	1.076	1.084	1.066	1.040	1.025	1.027	1.031	1.023	1.015	1.032	1.031	1.015	1.016	1.022	1.016	1.006	1.007	1.009	1.006	1.007	1.004	1.003	1.003	1.000	1.000		
Volume Weighted Average	2.651	1.383	1.248	1.174	1.111	1.100	1.085	1.076	1.060	1.041	1.037	1.030	1.025	1.022	1.024	1.019	1.016	1.014	1.011	1.010	1.010	1.009	1.006	1.008	1.007	1.005	1.007	1.005	1.006	1.005	1.000	1.000		
Weighted Average Excluding Last 1 Years	2.305	1.207	1.143	1.148	1.089	1.081	1.088	1.070	1.082	1.042	1.025	1.020	1.025	1.029	1.024	1.036	1.023	1.016	1.015	1.010	1.010	1.007	1.006	1.009	1.007	1.005	1.006	1.007	1.002	1.000	1.000	1.000		
5 Year Volume Weighted Average	2.402	1.256	1.160	1.146	1.084	1.067	1.092	1.081	1.086	1.048	1.035	1.024	1.023	1.026	1.024	1.021	1.025	1.027	1.022	1.009	1.012	1.012	1.007	1.007	1.007	1.005	1.007	1.005	1.006	1.005	1.000	1.000		
3 Year Volume Weighted Average	2.844	1.300	1.151	1.155	1.079	1.069	1.096	1.085	1.096	1.063	1.042	1.025	1.026	1.033	1.024	1.014	1.030	1.031	1.014	1.018	1.022	1.014	1.005	1.006	1.009	1.006	1.008	1.005	1.006	1.005	1.000	1.000		
5 Year Volume Weighted Average Excluding Last 1 Years	2.138	1.222	1.152	1.167	1.086	1.064	1.102	1.069	1.095	1.044	1.025	1.024	1.028	1.032	1.026	1.018	1.019	1.023	1.023	1.009	1.010	1.007	1.007	1.007	1.007	1.008	1.005	1.006	1.007	1.002	1.000	1.000		
Volume Weighted Average Excluding High/Low	2.635	1.391	1.196	1.155	1.097	1.078	1.075	1.058	1.058	1.040	1.036	1.025	1.025	1.021	1.023	1.017	1.015	1.014	1.010	1.009	1.009	1.007	1.006	1.008	1.008	1.005	1.005	1.003	1.002					
5 Year Volume Weighted Average Excluding High/Low	2.649	1.237	1.166	1.131	1.087	1.069	1.086	1.073	1.080	1.051	1.029	1.024	1.022	1.012	1.027	1.018	1.022	1.025	1.014	1.007	1.014	1.008	1.008	1.006	1.006	1.006	1.005	1.003	1.002					
Inverse Power Curve	2.307	1.435	1.229	1.145	1.102	1.076	1.060	1.048	1.040	1.034	1.029	1.025	1.022	1.020	1.018	1.016	1.015	1.013	1.012	1.011	1.010	1.010	1.009	1.008	1.008	1.008	1.007	1.007	1.006	1.006	1.006	1.045		
Selected	2.138	1.222	1.152	1.167	1.086	1.064	1.102	1.069	1.095	1.044	1.025	1.024	1.028	1.032	1.026	1.018	1.019	1.023	1.023	1.009	1.010	1.007	1.007	1.008	1.008	1.008	1.005	1.008	1.005	1.006	1.006	1.010		
Cumulative	7.435	3.477	2.845	2.469	2.116	1.949	1.832	1.663	1.555	1.420	1.360	1.327	1.295	1.261	1.221	1.190	1.169	1.147	1.121	1.097	1.087	1.076	1.068	1.061	1.054	1.046	1.041	1.033	1.028	1.022	1.016	1.010		
Ratio to Ultimate	0.134	0.288	0.351	0.405	0.473	0.513	0.546	0.601	0.643	0.704	0.735	0.754	0.772	0.793	0.819	0.840	0.856	0.872	0.892	0.912	0.920	0.929	0.936	0.942	0.949	0.956	0.961	0.968	0.973	0.978				

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 20

Ultimate Gross Face Value based on Average Gross Face Value
As of 06/30/2021

Notification Year	Ultimate Claims	Selected Average Gross Face Value	Ultimate Gross Face Value (1) x (2)
_____	(1)	(2)	(3)
1989	1	38,000	\$ 38,000
1990	323	148,000	47,804,000
1991	623	128,000	79,744,000
1992	348	126,000	43,848,000
1993	352	110,000	38,720,000
1994	276	106,000	29,256,000
1995	274	116,000	31,784,000
1996	445	108,000	48,060,000
1997	158	82,000	12,956,000
1998	211	96,000	20,256,000
1999	104	115,000	11,960,000
2000	65	82,000	5,330,000
2001	34	134,000	4,556,000
2002	45	106,000	4,770,000
2003	53	74,000	3,922,000
2004	40	85,000	3,400,000
2005	60	123,000	7,380,000
2006	61	137,000	8,357,000
2007	69	118,000	8,142,000
2008	73	153,000	11,169,000
2009	77	152,000	11,704,000
2010	34	122,000	4,148,000
2011	47	121,000	5,687,000
2012	68	123,000	8,364,000
2013	49	126,000	6,174,000
2014	68	131,000	8,908,000
2015	44	133,000	5,852,000
2016	45	136,000	6,120,000
2017	39	138,000	5,382,000
2018	49	139,000	6,811,000
2019	55	139,000	7,645,000
2020	4	139,000	556,000
Total	4,194		\$498,803,000

Notes:

1. Column (1) is from Reported Exhibit 28, column (5).
2. Selected average gross face value in column (2) is from Reported Exhibit 22, column (4).

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 21

Ultimate Gross Face Value Based on Bornhuetter-Ferguson Using Average Gross Face Value
As of 06/30/2021

Notification Year	Ultimate Claims	Selected Average Gross Face Value	Expected Ultimate Gross Face Value (1) x (2)	Selected Development Factors	Cumulative Development Factors	Ratio of Cumulative Gross Face Value to Ultimate Gross Face Value 1 / (5)	Ratio of Undeveloped Gross Face Value to Ultimate Gross Face Value 1 - (6)	Undeveloped Gross Face Value (3) x (7)	Cumulative Gross Face Value	Ultimate Gross Face Value (8) + (9)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1989	1	\$ 38,000	\$ 38,000	1.010	1.010	0.990	0.010	\$ 376	\$ 37,526	\$ 37,902
1990	323	148,000	47,804,000	1.006	1.016	0.984	0.016	755,597	46,905,431	47,661,029
1991	623	128,000	79,744,000	1.006	1.022	0.978	0.022	1,728,539	77,785,364	79,513,903
1992	348	126,000	43,848,000	1.006	1.028	0.973	0.027	1,189,388	42,795,178	43,984,567
1993	352	110,000	38,720,000	1.005	1.033	0.968	0.032	1,242,070	37,534,658	38,776,729
1994	276	106,000	29,256,000	1.008	1.041	0.961	0.039	1,155,347	28,054,982	29,210,329
1995	274	116,000	31,784,000	1.005	1.046	0.956	0.044	1,396,791	30,507,370	31,904,161
1996	445	108,000	48,060,000	1.008	1.054	0.949	0.051	2,462,992	45,807,796	48,270,788
1997	158	82,000	12,956,000	1.007	1.061	0.942	0.058	748,961	12,224,691	12,973,652
1998	211	96,000	20,256,000	1.007	1.068	0.936	0.064	1,297,555	18,885,113	20,182,668
1999	104	115,000	11,960,000	1.007	1.076	0.929	0.071	846,927	11,087,414	11,934,341
2000	65	82,000	5,330,000	1.010	1.087	0.920	0.080	426,289	4,931,377	5,357,665
2001	34	134,000	4,556,000	1.009	1.097	0.912	0.088	401,647	4,162,939	4,564,586
2002	45	106,000	4,770,000	1.023	1.121	0.892	0.108	516,694	4,271,563	4,788,257
2003	53	74,000	3,922,000	1.023	1.147	0.872	0.128	502,796	3,435,267	3,938,063
2004	40	85,000	3,400,000	1.019	1.169	0.856	0.144	491,221	2,916,981	3,408,202
2005	60	123,000	7,380,000	1.018	1.190	0.840	0.160	1,179,534	6,181,485	7,361,019
2006	61	137,000	8,357,000	1.026	1.221	0.819	0.181	1,513,711	6,844,324	8,358,035
2007	69	118,000	8,142,000	1.032	1.261	0.793	0.207	1,682,959	6,442,992	8,125,951
2008	73	153,000	11,169,000	1.028	1.295	0.772	0.228	2,545,896	8,638,202	11,184,098
2009	77	152,000	11,704,000	1.024	1.327	0.754	0.246	2,883,853	8,821,196	11,705,050
2010	34	122,000	4,148,000	1.025	1.360	0.735	0.265	1,098,922	4,461,490	5,560,412
2011	47	121,000	5,687,000	1.044	1.420	0.704	0.296	1,682,271	3,513,937	5,196,208
2012	68	123,000	8,364,000	1.095	1.555	0.643	0.357	2,986,488	6,418,573	9,405,061
2013	49	126,000	6,174,000	1.069	1.663	0.601	0.399	2,461,427	4,839,209	7,300,636
2014	68	131,000	8,908,000	1.102	1.832	0.546	0.454	4,046,133	7,447,049	11,493,182
2015	44	133,000	5,852,000	1.064	1.949	0.513	0.487	2,849,771	3,921,930	6,771,701
2016	45	136,000	6,120,000	1.086	2.116	0.473	0.527	3,228,193	3,777,279	7,005,472
2017	39	138,000	5,382,000	1.167	2.469	0.405	0.595	3,202,045	2,594,115	5,796,160
2018	49	139,000	6,811,000	1.152	2.845	0.351	0.649	4,417,215	2,691,192	7,108,407
2019	55	139,000	7,645,000	1.222	3.477	0.288	0.712	5,446,259	3,249,860	8,696,119
2020	4	139,000	556,000	2.138	7.435	0.134	0.866	481,221	141,596	622,817
Total	4,194		\$498,803,000					\$ 56,869,088	\$451,328,079	\$ 508,197,170

Notes:

1. Column (1) is from Reported Exhibit 28, column (5).
2. Selected average gross face value in column (2) is from Reported Exhibit 22, column (4).
3. Development factors in columns (4) and (5) are selected in Reported Exhibit 19.
4. Cumulative gross face value in column (9) is estimated using values available at April 30, 2021.

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 22

Preliminary Average Gross Face Value
As of 06/30/2021

Notification Year	Ultimate Gross Face Value Based on Development Method	Ultimate Claims	Preliminary Average Gross Face Value (1) / (2)	Selected Average Gross Face Value (4)
	(1)	(2)	(3)	(4)
1989	\$ 37,901	1	37,901	38,000
1990	47,658,732	323	147,550	148,000
1991	79,508,804	623	127,622	128,000
1992	43,988,374	348	126,403	126,000
1993	38,778,609	352	110,167	110,000
1994	29,208,452	276	105,828	106,000
1995	31,909,684	274	116,459	116,000
1996	48,282,174	445	108,499	108,000
1997	12,974,735	158	82,119	82,000
1998	20,177,649	211	95,629	96,000
1999	11,932,386	104	114,734	115,000
2000	5,360,070	65	82,463	82,000
2001	4,565,416	34	134,277	134,000
2002	4,790,474	45	106,455	106,000
2003	3,940,425	53	74,348	74,000
2004	3,409,587	40	85,240	85,000
2005	7,357,408	60	122,623	123,000
2006	8,358,263	61	137,021	137,000
2007	8,121,769	69	117,707	118,000
2008	11,188,556	73	153,268	153,000
2009	11,705,393	77	152,018	152,000
2010	6,069,462	34	178,514	122,000
2011	4,990,041	47	106,171	121,000
2012	9,983,231	68	146,812	123,000
2013	8,047,592	49	164,237	126,000
2014	13,644,617	68	200,656	131,000
2015	7,644,698	44	173,743	133,000
2016	7,993,946	45	177,643	136,000
2017	6,404,504	39	164,218	138,000
2018	7,657,208	49	156,270	139,000
2019	11,299,730	55	205,450	139,000
2020	1,052,804	4	263,201	139,000
Total	\$ 518,042,694	4,194		

Notes:

1. Column (1) is from Report Exhibit 17, column (4).
2. Column (2) is from Reported Exhibit 28, column (5).
3. Column (4) is based on column (3) for notification years 1989 - 2009; the rounded average of column (3) from notification year 2000 through the associated year for notification years 2010 - 2018; and the rounded average of column (3) of notification years 2000 - 2018 for notification years 2019 - 2020.

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 23

Cumulative Gross Face Value per Cumulative Reported Claims
As of 06/30/2021

Notification Year	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324	336	348	360	372	384	
1989	0	0	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	37,526	
1990	20,087	44,774	63,856	69,974	78,452	84,798	88,405	93,247	97,570	106,726	110,590	113,972	121,211	122,920	126,276	129,962	133,563	135,654	135,572	136,619	137,904	139,081	139,520	140,353	141,970	142,474	142,900	143,538	144,221	144,452	145,218	37,526	
1991	13,299	30,855	40,620	49,153	58,106	62,174	72,354	76,808	89,738	91,789	95,362	99,916	102,892	106,029	107,783	106,641	111,388	113,112	113,998	115,129	116,152	116,982	117,794	118,623	119,999	120,890	121,613	122,920	123,863	124,856	37,526		
1992	8,359	27,408	45,052	54,685	67,820	72,345	76,022	81,351	95,152	99,843	103,246	105,611	108,848	112,106	114,379	116,156	117,260	118,689	119,528	120,483	121,280	121,955	122,022	122,381	122,986	123,745	122,861	122,976	123,863	124,856	37,526		
1993	5,489	15,731	25,452	32,996	40,165	44,853	64,564	68,582	73,385	79,794	83,318	86,219	87,731	89,628	91,228	92,966	94,473	95,768	96,734	97,613	98,672	99,423	100,683	101,790	103,121	104,833	105,647	106,633	37,526	37,526	37,526		
1994	6,389	25,502	32,028	39,208	45,224	60,723	63,003	66,586	72,451	75,993	78,895	81,500	84,280	86,884	88,387	91,087	92,255	92,986	93,952	95,432	95,857	97,057	98,285	99,153	100,048	100,500	101,648	102,359	103,121	103,941	37,526		
1995	9,529	17,751	26,511	35,580	52,241	59,278	66,017	74,004	78,569	85,370	89,010	91,709	93,395	94,726	96,328	98,057	99,678	102,000	104,737	106,008	107,868	109,223	109,934	110,599	110,999	111,341	111,999	112,613	113,183	113,813	37,526		
1996	5,979	13,220	23,282	46,621	51,019	56,832	62,339	68,798	73,890	77,634	81,725	85,097	87,917	90,313	92,750	95,065	97,218	98,487	99,623	100,452	100,883	101,360	101,987	102,235	102,939	103,500	104,028	104,518	105,000	105,483	37,526		
1997	7,497	19,708	31,157	34,530	40,692	46,418	50,772	53,320	55,544	58,116	61,752	64,427	66,107	68,007	69,285	70,676	71,955	73,883	74,963	75,468	75,826	76,479	76,576	77,371	78,100	78,734	79,374	81,974	84,106	85,949	89,603	37,526	
1998	9,864	19,708	25,072	30,364	37,899	41,260	45,053	49,129	52,629	56,028	60,252	62,728	64,378	66,245	67,584	70,936	73,329	77,219	78,734	81,974	84,106	85,949	89,603	93,257	96,911	100,565	104,219	107,873	111,527	115,181	118,835	37,526	
1999	5,121	39,603	52,506	63,412	67,082	71,220	73,250	78,280	80,435	82,236	84,046	86,855	89,073	91,102	92,579	94,216	96,422	98,122	101,252	102,444	102,969	106,610	109,251	111,892	114,533	117,174	119,815	122,456	125,097	127,738	130,379	37,526	
2000	5,960	14,972	32,577	37,665	41,479	48,719	53,378	56,245	58,146	58,771	59,655	60,923	61,477	63,168	64,513	66,405	69,222	71,054	73,007	74,587	76,867	79,147	81,427	83,707	85,987	88,267	90,547	92,827	95,107	97,387	99,667	37,526	
2001	9,867	30,419	42,567	70,297	81,878	85,402	88,437	92,039	96,843	102,674	105,125	105,765	107,661	108,368	110,883	115,263	117,145	120,323	121,222	122,439	123,656	124,873	126,090	127,307	128,524	129,741	130,958	132,175	133,392	134,609	135,826	37,526	
2002	2,736	18,708	30,537	41,680	51,594	58,952	62,848	70,122	73,090	76,894	81,056	82,044	83,544	85,874	86,705	88,398	89,082	89,627	90,924	91,611	92,300	93,000	93,700	94,400	95,100	95,800	96,500	97,200	97,900	98,600	99,300	37,526	
2003	9,952	13,964	29,195	32,715	36,407	42,870	47,425	50,861	51,862	55,016	59,621	57,003	57,376	58,017	58,764	60,952	60,951	64,916	64,916	64,916	64,916	64,916	64,916	64,916	64,916	64,916	64,916	64,916	64,916	64,916	64,916	64,916	37,526
2004	9,964	28,345	40,430	47,813	51,827	56,986	59,358	61,905	63,610	65,204	66,217	67,790	68,397	69,113	69,925	70,359	72,925	72,925	72,925	72,925	72,925	72,925	72,925	72,925	72,925	72,925	72,925	72,925	72,925	72,925	72,925	72,925	37,526
2005	15,200	34,519	43,566	52,780	58,553	65,765	69,711	74,763	77,914	81,468	85,345	87,568	90,253	93,990	100,308	103,025	103,025	103,025	103,025	103,025	103,025	103,025	103,025	103,025	103,025	103,025	103,025	103,025	103,025	103,025	103,025	103,025	37,526
2006	11,617	37,552	58,013	67,279	70,565	75,604	80,790	91,791	96,273	100,735	103,819	105,101	107,419	110,817	112,202	113,587	114,972	116,357	117,742	119,127	120,512	121,897	123,282	124,667	126,052	127,437	128,822	130,207	131,592	132,977	134,362	135,747	37,526
2007	8,230	34,258	43,030	49,525	60,370	66,281	70,778	73,455	80,756	86,849	88,544	89,665	92,506	93,377	94,248	97,089	97,960	98,831	101,672	102,543	103,414	106,255	107,126	107,997	110,838	111,709	112,580	115,421	116,292	117,163	118,034	118,905	37,526
2008	20,782	38,193	44,613	52,432	61,147	70,521	81,055	87,633	94,614	103,793	111,968	115,749	118,332	120,915	123,498	126,081	128,664	131,247	133,830	136,413	138,996	141,579	144,162	146,745	149,328	151,911	154,494	157,077	159,660	162,243	164,826	167,409	37,526
2009	22,730	50,089	57,056	63,928	68,379	73,428	78,286	86,165	90,774	102,757	107,603	114,581	118,560	122,539	126,518	130,497	134,476	138,455	142,434	146,413	150,392	154,371	158,350	162,329	166,308	170,287	174,266	178,245	182,224	186,203	190,182	194,161	37,526
2010	11,361	45,651	55,261	72,510	80,968	91,936	99,190	104,897	110,848	121,985	132,200	138,415	144,630	150,845	157,060	163,275	169,490	175,705	181,920	188,135	194,350	200,565	206,780	212,995	219,210	225,425	231,640	237,855	244,070	250,285	256,500	262,715	37,526
2011	18,700	41,657	47,284	52,734	59,150	61,225	64,104	69,802	73,172	74,795	76,418	78,041	79,664	81,287	82,910	84,533	86,156	87,779	89,402	91,025	92,648	94,271	95,894	97,517	99,140	100,763	102,386	104,009	105,632	107,255	108,878	110,501	37,526
2012	12,878	38,928	47,498	53,551	61,599	67,504	73,608	83,959	84,391	85,843	87,295	88,747	90,199	91,651	93,103	94,555	96,007	97,459	98,911	100,363	101,815	103,267	104,719	106,171	107,623	109,075	110,527	111,979	113,431	114,883	116,335	117,787	37,526
2013	22,947	59,993	68,083	77,219	85,675	90,491	93,812	101,515	98,759	101,515	104,270	107,025	109,780	112,535	115,290	118,045	120,800	123,555	126,310	129,065	131,820	134,575	137,330	140,085	142,840	145,595	148,350	151,105	153,860	156,615	159,370	162,125	37,526
2014	18,069	50,306	62,111	74,967	82,846	101,931	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	109,515	37,526
2015	38,073	54,215	63,608	73,429	83,070	89,135	95,200	101,265	107,330	113,395	119,460	125,525	131,590	137,655	143,720	149,785	155,850	161,915	167,980	174,045	180,110	186,175	192,240	198,305	204,370	210,435	216,500	222,565	228,630	234,695	240,760	246,825	37,526
2016	18,660	47,440	71,806	79,601	83,940	88,279	92,618	96,957	101,296	105,635	110,000	114,365	118,730	123,095	127,460	131,825	136,190	140,555	144,920	149,285	153,650	158,015	162,380	166,745	171,110	175,475	179,840	184,205	188,570	192,935	197,300	201,665	37,526
2017	13,973	45,020	55,029	65,516	75,999	86,482	96,965	107,448	117,931	128,414	138,897	149,380	159,863	170,346	180,829	191,312	201,795	212,278	222,761	233,244	243,727	254,210	264,693	275,176	285,659	296,142	306,625	317,108	327,591	338,074	348,557	359,040	37,526
2018	18,575	38,130	54,922	68,516	82,110	95,704	109,298	122,892	136,486	150,080	163,674	177,268	190,862	204,456	218,050	231,644	245,238	258,832	272,426	286,020	299,614	313,208	326,802	340,396	353,990	367,584	381,178	394,772	408,366	421,960	435,554	449,148	37,526
2019	16,507	39,088	52,672	66,256	79,840	93,424	107,008	120,592	134,176	147,760	161,344	174,928	188,512	202,096	215,680	229,264	242,848	256,432	270,016	283,600	297,184	310,768	324,352	337,936	351,520	365,104	378,688	392,272	405,856	419,440	433,024	446,608</	

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 24

Ultimate Disallowed Costs Based on Ratio to Gross Face Value Development
As of 06/30/2021

Notification Year	Ultimate Gross Face Value	Selected Ratio of Disallowed Costs to Gross Face Value	Ultimate Disallowed Costs (1) x (2)
-----	(1)	(2)	(3)
1989	\$ 38,000	0.146	\$ 5,548
1990	47,708,000	0.190	9,064,520
1991	79,589,000	0.183	14,564,787
1992	43,940,000	0.196	8,612,240
1993	38,758,000	0.200	7,751,600
1994	29,225,000	0.196	5,728,100
1995	31,866,000	0.202	6,436,932
1996	48,204,000	0.190	9,158,760
1997	12,968,000	0.148	1,919,264
1998	20,205,000	0.200	4,041,000
1999	11,942,000	0.200	2,388,400
2000	5,349,000	0.200	1,069,800
2001	4,562,000	0.280	1,277,360
2002	4,783,000	0.200	956,600
2003	3,933,000	0.200	786,600
2004	3,406,000	0.200	681,200
2005	7,366,000	0.200	1,473,200
2006	8,358,000	0.200	1,671,600
2007	8,130,000	0.200	1,626,000
2008	11,181,000	0.236	2,638,716
2009	11,705,000	0.236	2,762,380
2010	5,259,000	0.236	1,241,124
2011	5,291,000	0.236	1,248,676
2012	9,251,000	0.236	2,183,236
2013	7,174,000	0.236	1,693,064
2014	11,349,000	0.236	2,678,364
2015	6,756,000	0.236	1,594,416
2016	7,040,000	0.236	1,661,440
2017	5,796,000	0.236	1,367,856
2018	7,108,000	0.236	1,677,488
2019	8,696,000	0.236	2,052,256
2020	623,000	0.236	147,028
Total	\$507,559,000		\$102,159,555

Notes:

1. Column (1) is from Reported Exhibit 16, column (4).
2. Selected ratio in column (2) is based on column (3) of Reported Exhibit 25 for notification years 1989 through 1997. For notification years 1998 - 2000, and 2002 - 2007 the average ratio of all notification years from Reported Exhibit 25 is used. The ratio for notification year 2001 is calculated by excluding claims with a high gross face value or disallowed cost. The ratio for notification years 2008 - 2020 is based on column (3) from Reported Exhibit 25 using the rounded average of notification years 2000 - 2015.

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 25

Ratio of Disallowed Costs on Closed Claims to Cumulative Gross Face Value on Closed Claims
As of 06/30/2021

Notification Year	Cumulative Disallowed Costs on Closed Claims	Cumulative Gross Face Value on Closed Claims	Ratio (1) / (2)
_____	(1)	(2)	(3)
1989	\$ 5,486	\$ 37,526	0.146
1990	8,047,508	42,388,970	0.190
1991	12,583,000	68,624,168	0.183
1992	7,601,530	38,689,711	0.196
1993	6,545,203	32,799,057	0.200
1994	4,867,204	24,784,549	0.196
1995	5,461,302	26,998,161	0.202
1996	7,712,703	40,599,997	0.190
1997	1,598,464	10,830,351	0.148
1998	2,665,534	12,896,631	0.207
1999	2,787,298	9,068,478	0.307
2000	928,319	3,553,229	0.261
2001	1,404,409	3,358,579	0.418
2002	419,521	3,116,923	0.135
2003	615,749	3,003,252	0.205
2004	353,629	2,180,932	0.162
2005	530,743	3,382,824	0.157
2006	1,415,153	5,494,307	0.258
2007	1,067,747	5,379,324	0.198
2008	1,060,886	3,774,730	0.281
2009	820,529	4,444,123	0.185
2010	283,173	1,635,048	0.173
2011	509,590	2,108,714	0.242
2012	669,043	2,223,280	0.301
2013	1,132,467	2,535,265	0.447
2014	345,858	1,942,366	0.178
2015	434,817	2,435,831	0.179
2016	304,730	2,453,856	0.124
2017	234,817	733,667	0.320
2018	106,087	424,967	0.250
2019	33,153	137,746	0.241
2020	-	-	0.000
Total	\$72,545,652	\$362,036,562	0.200

Notes:

1. Disallowed costs on closed claims in column (1) uses values available at April 30, 2021.
2. Gross face value on closed claims in column (2) uses values available at April 30, 2021.
3. The rounded average of column (3) for notification years 2000 - 2015 is .236. This is used in Reported Exhibit 24, column (2) for notification years 2008 - 2020.

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 26

Ultimate Deductible Recoveries Based on Ratio of Deductible Recoveries to Gross Face Value Less Disallowed Costs
As of 06/30/2021

Notification Year	Ultimate Gross Face Value	Ultimate Disallowed Costs	Ultimate Gross Face Value Less Disallowed Costs (1) - (2)	Ratio of Deductible Recoveries to Total Gross Face Value Less Disallowed Costs (4)	Ultimate Deductible Recoveries (3) x (4)
(1)	(2)	(3)	(4)	(5)	
1989	\$ 38,000	\$ 5,548	\$ 32,452	0.312	\$ 10,125
1990	47,708,000	9,064,520	38,643,480	0.237	9,158,505
1991	79,589,000	14,564,787	65,024,213	0.254	16,516,150
1992	43,940,000	8,612,240	35,327,760	0.260	9,185,218
1993	38,758,000	7,751,600	31,006,400	0.286	8,867,830
1994	29,225,000	5,728,100	23,496,900	0.329	7,730,480
1995	31,866,000	6,436,932	25,429,068	0.285	7,247,284
1996	48,204,000	9,158,760	39,045,240	0.303	11,830,708
1997	12,968,000	1,919,264	11,048,736	0.293	3,237,280
1998	20,205,000	4,041,000	16,164,000	0.354	5,722,056
1999	11,942,000	2,388,400	9,553,600	0.237	2,264,203
2000	5,349,000	1,069,800	4,279,200	0.427	1,827,218
2001	4,562,000	1,277,360	3,284,640	0.499	1,639,035
2002	4,783,000	956,600	3,826,400	0.503	1,924,679
2003	3,933,000	786,600	3,146,400	0.563	1,771,423
2004	3,406,000	681,200	2,724,800	0.640	1,743,872
2005	7,366,000	1,473,200	5,892,800	0.556	3,276,397
2006	8,358,000	1,671,600	6,686,400	0.503	3,363,259
2007	8,130,000	1,626,000	6,504,000	0.475	3,089,400
2008	11,181,000	2,638,716	8,542,284	0.556	4,749,510
2009	11,705,000	2,762,380	8,942,620	0.556	4,972,097
2010	5,259,000	1,241,124	4,017,876	0.556	2,233,939
2011	5,291,000	1,248,676	4,042,324	0.556	2,247,532
2012	9,251,000	2,183,236	7,067,764	0.556	3,929,677
2013	7,174,000	1,693,064	5,480,936	0.556	3,047,400
2014	11,349,000	2,678,364	8,670,636	0.556	4,820,874
2015	6,756,000	1,594,416	5,161,584	0.556	2,869,841
2016	7,040,000	1,661,440	5,378,560	0.556	2,990,479
2017	5,796,000	1,367,856	4,428,144	0.556	2,462,048
2018	7,108,000	1,677,488	5,430,512	0.556	3,019,365
2019	8,696,000	2,052,256	6,643,744	0.556	3,693,922
2020	623,000	147,028	475,972	0.556	264,640
Total	\$507,559,000	\$102,159,555	\$405,399,445		\$141,706,446

Notes:

1. Column (1) is from Reported Exhibit 16, column (4).
2. Column (2) is from Reported Exhibit 24, column (3).
3. Selected ratio in column (4) is based on column (5) from Reported Exhibit 27 for notification years 1989 - 2004 and 2006 - 2007. For notification years 2005 and 2008 - 2020, column (4) is based on column (5) from Reported Exhibit 27 using the rounded average of notification years 2000 - 2015.

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 27

Ratio of Deductible Recoveries on Closed Claims to Cumulative Gross Face Value less Disallowed Costs on Closed Claims
As of 06/30/2021

Notification Year	Cumulative Deductible Recoveries on Closed Claims (1)	Cumulative Gross Face Value on Closed Claims (2)	Cumulative Disallowed Costs on Closed Claims (3)	Cumulative Gross Face Value less Disallowed Costs on Closed Claims (2) - (3) (4)	Ratio (1) / (4) (5)
1989	\$ 10,000	\$ 37,526	\$ 5,486	\$ 32,040	0.312
1990	8,134,626	42,388,970	8,047,508	34,341,462	0.237
1991	14,244,344	68,624,168	12,583,000	56,041,168	0.254
1992	8,095,615	38,689,711	7,601,530	31,088,181	0.260
1993	7,496,876	32,799,057	6,545,203	26,253,854	0.286
1994	6,552,694	24,784,549	4,867,204	19,917,345	0.329
1995	6,138,900	26,998,161	5,461,302	21,536,859	0.285
1996	9,973,454	40,599,997	7,712,703	32,887,293	0.303
1997	2,703,897	10,830,351	1,598,464	9,231,887	0.293
1998	3,623,385	12,896,631	2,665,534	10,231,097	0.354
1999	1,487,034	9,068,478	2,787,298	6,281,180	0.237
2000	1,120,948	3,553,229	928,319	2,624,910	0.427
2001	974,495	3,358,579	1,404,409	1,954,171	0.499
2002	1,356,671	3,116,923	419,521	2,697,401	0.503
2003	1,343,377	3,003,252	615,749	2,387,504	0.563
2004	1,170,062	2,180,932	353,629	1,827,302	0.640
2005	1,718,506	3,382,824	530,743	2,852,081	0.603
2006	2,050,224	5,494,307	1,415,153	4,079,154	0.503
2007	2,046,155	5,379,324	1,067,747	4,311,576	0.475
2008	1,802,735	3,774,730	1,060,886	2,713,845	0.664
2009	1,640,193	4,444,123	820,529	3,623,594	0.453
2010	659,482	1,635,048	283,173	1,351,876	0.488
2011	846,990	2,108,714	509,590	1,599,123	0.530
2012	1,074,619	2,223,280	669,043	1,554,238	0.691
2013	992,863	2,535,265	1,132,467	1,402,798	0.708
2014	1,043,442	1,942,366	345,858	1,596,508	0.654
2015	1,013,633	2,435,831	434,817	2,001,014	0.507
2016	876,243	2,453,856	304,730	2,149,127	0.408
2017	393,502	733,667	234,817	498,850	0.789
2018	269,004	424,967	106,087	318,880	0.844
2019	73,544	137,746	33,153	104,593	0.703
2020	-	-	-	-	0.000
Total	\$90,927,513	\$362,036,562	\$72,545,652	\$ 289,490,911	0.314

Notes:

1. Deductible recoveries on closed claims in column (1) uses values available at April 30, 2021.
2. Gross face value on closed claims in column (2) uses values available at April 30, 2021.
3. Disallowed costs on closed claims in column (3) uses values available at April 30, 2021.
4. The rounded average of column (5) for notification years 2000 - 2015 is .556. This is used in Reported Exhibit 26, column (4) for notification years 2005, and 2008 - 2020.

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 28

Summary of Claim Counts
As of 06/30/2021

Notification Year	Closed Claims	Open Claims	Reported Claims (1) + (2)	IBNR Claims	Ultimate Claims (3) + (4)
_____	(1)	(2)	(3)	(4)	(5)
1989	1	0	1	0	1
1990	305	18	323	0	323
1991	596	27	623	0	623
1992	335	13	348	0	348
1993	339	13	352	0	352
1994	259	17	276	0	276
1995	262	12	274	0	274
1996	422	23	445	0	445
1997	151	7	158	0	158
1998	181	30	211	0	211
1999	89	15	104	0	104
2000	62	3	65	0	65
2001	32	2	34	0	34
2002	40	5	45	0	45
2003	52	1	53	0	53
2004	36	4	40	0	40
2005	51	9	60	0	60
2006	54	7	61	0	61
2007	63	6	69	0	69
2008	55	18	73	0	73
2009	59	18	77	0	77
2010	23	11	34	0	34
2011	37	10	47	0	47
2012	47	21	68	0	68
2013	38	11	49	0	49
2014	42	26	68	0	68
2015	34	10	44	0	44
2016	31	14	45	0	45
2017	15	24	39	0	39
2018	11	38	49	0	49
2019	6	49	55	0	55
2020	0	4	4	0	4
Total	3,728	466	4,194	0	4,194

Note:

1. Column (5) equals column (3), as this analysis is limited to claims reported prior to June 30, 2021.
2. Closed claims in column (1) is estimated using values available at April 30, 2021.
3. Open claims for notification year 2020 in column (2) is estimated using values available at April 30, 2021.

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Notification Year

Reported Exhibit 30

Cumulative Closed Claims
As of 06/30/2021

Notification Year	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324	336	348	360	372	384		
1989	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1990	0	8	44	83	108	138	147	158	167	178	187	195	206	226	237	243	254	261	266	275	275	280	283	287	292	297	298	300	302	303	305			
1991	3	51	142	206	247	280	299	306	355	369	393	419	444	472	493	521	535	551	562	568	571	576	582	583	587	589	591	594	595	596				
1992	3	54	79	112	134	148	158	172	182	191	213	226	254	276	290	297	304	307	312	315	321	326	326	327	332	333	334	335	335					
1993	4	44	68	94	109	128	154	173	187	205	224	248	264	285	294	299	304	309	314	318	327	331	331	334	335	338	338	338	339					
1994	2	28	55	66	76	95	112	119	138	152	179	186	206	216	224	226	232	240	244	245	248	249	251	256	258	259	259							
1995	9	33	51	69	94	108	120	132	147	170	181	206	212	219	227	231	242	245	251	255	257	257	258	259	261	262								
1996	27	69	95	113	139	163	199	226	263	280	300	313	330	348	358	368	380	396	400	410	415	419	420	421	422									
1997	1	17	32	42	49	61	76	90	98	108	112	116	121	126	131	135	137	139	145	151	151	151	151	151										
1998	0	16	30	40	66	84	95	104	116	126	133	140	142	147	153	157	164	170	171	175	176	179	181											
1999	1	7	17	24	43	56	62	67	69	72	72	72	72	73	77	79	82	82	86	87	89													
2000	0	10	17	26	33	40	42	46	50	52	54	56	58	58	60	60	61	62	62	62														
2001	0	1	7	10	14	21	24	26	26	26	26	28	28	28	29	31	32	32	32	32	32													
2002	0	3	9	14	20	26	26	27	27	30	32	35	37	38	39	40	40	40	40	40														
2003	0	4	8	17	24	24	29	34	39	39	44	46	46	46	47	48	48	52																
2004	0	4	15	18	21	24	29	32	32	34	35	36	36	36	36	36	36	36																
2005	0	5	15	17	20	24	35	40	44	44	44	45	48	48	49	50	51																	
2006	0	5	9	17	22	27	32	38	41	43	48	51	53	54	54																			
2007	0	8	15	21	27	37	42	45	48	53	56	58	61	63																				
2008	0	9	15	19	26	32	40	44	51	54	54	54	54	55																				
2009	0	5	25	27	41	46	50	52	52	54	58	59																						
2010	0	3	6	11	14	18	20	21	21	23	23																							
2011	4	12	19	23	26	28	33	33	37	37																								
2012	1	15	26	31	33	38	42	43	47																									
2013	0	9	17	23	29	31	37	38																										
2014	5	26	25	28	34	41	42																											
2015	0	10	21	25	29	34																												
2016	0	10	19	24	31																													
2017	0	5	9	15																														
2018	1	6	11																															
2019	0	6																																
2020	0																																	

Note: Closed claims are estimated using values available at April 30, 2021.

Cumulative Open Claims
As of 06/30/2021

Notification Year	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324	336	348	360	372	384	
1989	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990	323	315	279	240	215	185	176	165	156	145	136	128	117	97	86	80	69	62	57	48	48	43	40	36	31	26	25	23	21	20	18		
1991	620	572	461	417	376	343	324	297	268	254	230	204	179	151	130	102	88	72	61	55	52	47	41	40	36	34	32	29	28	27			
1992	345	294	269	236	214	200	190	176	166	157	135	122	94	72	58	51	44	41	36	33	27	22	22	21	16	15	14	14	13	13			
1993	348	308	284	258	243	224	198	179	165	147	128	104	88	67	58	53	48	43	38	34	25	21	21	18	17	14	14	13					
1994	274	248	221	210	200	181	164	157	138	124	97	90	70	60	52	50	44	36	32	31	28	27	25	20	18	17	17						
1995	265	241	223	205	180	166	154	142	127	104	93	68	62	55	47	43	32	28	23	19	17	17	16	15	13	12							
1996	418	376	350	332	306	282	246	219	182	165	145	132	115	97	87	77	65	49	45	35	30	26	25	24	23								
1997	157	141	126	116	109	97	82	68	60	50	46	42	37	32	27	23	21	19	13	7	7	7	7	7									
1998	211	195	181	171	145	127	116	107	95	85	78	71	69	64	58	54	47	41	40	36	35	32	30										
1999	103	97	87	80	61	48	42	37	35	32	32	32	31	27	25	22	22	18	17	15	15												
2000	65	55	48	39	32	25	23	19	15	13	11	9	7	7	5	5	5	4	3	3	3												
2001	34	33	27	24	20	13	10	8	8	6	6	6	5	3	2	2	2	2	2														
2002	45	42	36	31	25	19	19	18	18	15	13	10	8	7	6	5	5	5	5														
2003	53	49	45	38	29	24	19	14	14	9	7	7	7	6	5	5	1																
2004	40	36	25	22	19	16	11	8	8	6	5	4	4	4	4	4	4																
2005	60	55	45	43	40	36	25	20	16	16	15	12	12	11	10	9																	
2006	61	56	52	44	39	34	29	23	20	18	13	10	8	7	7																		
2007	69	61	54	48	42	32	27	24	21	16	13	11	8	6																			
2008	73	64	58	54	47	41	33	29	22	19	19	19	18																				
2009	77	72	52	50	36	31	27	25	25	23	19	18																					
2010	34	31	28	23	20	16	14	13	13	11	11																						
2011	43	35	28	24	21	19	14	10																									
2012	67	53	42	37	35	30	26	25	21																								
2013	49	40	32	26	20	18	12	11																									
2014	63	52	43																														

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Release Year - Total (RBCA and Non-RBCA)

Unreported Exhibit 1
Held Claims Removed

Estimated Ultimate Average Loss

As of June 30, 2021

Release Year	Estimated Reported Claims 07/01/21- 06/30/22	Undetermined Eligibility Applications as of 06/30/21	Estimated Approval Percentage	Estimated Additional Claims from Undetermined Eligibility Applications (2) x (3)	Selected Average Loss	Total Ultimate Loss [(1) + (4)] x (5)
	(1)	(2)	(3)	(4)	(5)	(6)
ALL	23	102	63%	64	\$ 53,200	\$ 4,628,400

Notes:

1. Column (1) is from Unreported Exhibit 2, total column (11).
2. Selected average loss in column (5) is based on the volume weighted average of the severities for the 2017 through 2020 notification years using the Ultimate Loss amounts in Reported Exhibit 2.

Ohio Petroleum Underground Storage Tank Release Compensation Board
By Release Year

Unreported Exhibit 2

Ultimate Claims Based on Bornhuetter-Ferguson Using Exposures and Reported Claims
As of 6/30/2021

Release Year	Reported Claims as of 06/30/21 (1)	Cumulative Development Factors (2)	Ratio to Ultimate 1 / (2) (3)	Reported Claim Ultimate (1) x (2) (4)	Exposures (5)	Ratio of Indicated Claim Frequency (4) / (5) (6)	Selected Claim Frequency (7)	B-F Reported Claim Ultimate (8)	Selected Ultimate Claims (9)	Total IBNR Claims (9) - (1) (10)	Estimated Reported Claims 7/1/21 - 06/30/22 (11)
1988	0	\$ 1.0000	\$ 1.0000	0	0	0.0000	0.0000	0	0	0	
1989	344	1.0000	1.0000	344	50,367	0.0068	0.0068	344	344	0	0
1990	489	1.0000	1.0000	489	49,412	0.0099	0.0099	489	489	0	0
1991	543	1.0000	1.0000	543	45,678	0.0119	0.0119	543	543	0	0
1992	409	1.0000	1.0000	409	41,260	0.0099	0.0099	409	409	0	0
1993	288	1.0000	1.0000	288	38,314	0.0075	0.0075	288	288	0	0
1994	291	1.0000	1.0000	291	34,989	0.0083	0.0083	291	291	0	0
1995	205	1.0000	1.0000	205	32,665	0.0063	0.0063	205	205	0	0
1996	161	1.0000	1.0000	161	31,198	0.0052	0.0052	161	161	0	0
1997	192	1.0000	1.0000	192	29,949	0.0064	0.0064	192	192	0	0
1998	178	1.0000	1.0000	178	27,825	0.0064	0.0064	178	178	0	0
1999	66	1.0000	1.0000	66	24,928	0.0026	0.0026	66	66	0	0
2000	36	1.0000	1.0000	36	24,748	0.0015	0.0015	36	36	0	0
2001	40	1.0000	1.0000	40	24,437	0.0016	0.0016	40	40	0	0
2002	43	1.0000	1.0000	43	24,190	0.0018	0.0018	43	43	0	0
2003	57	1.0000	1.0000	57	23,913	0.0024	0.0024	57	57	0	0
2004	41	1.0000	1.0000	41	23,480	0.0017	0.0017	41	41	0	0
2005	67	1.0000	1.0000	67	23,367	0.0029	0.0029	67	67	0	0
2006	57	1.0000	1.0000	57	23,123	0.0025	0.0025	57	57	0	0
2007	72	1.0000	1.0000	72	22,786	0.0032	0.0032	72	72	0	0
2008	73	1.0000	1.0000	73	22,370	0.0033	0.0033	73	73	0	0
2009	59	1.0000	1.0000	59	22,074	0.0027	0.0027	59	59	0	0
2010	41	1.0000	1.0000	41	21,799	0.0019	0.0019	41	41	0	0
2011	56	1.0000	1.0000	56	21,524	0.0026	0.0026	56	56	0	0
2012	61	1.0000	1.0000	61	21,311	0.0029	0.0029	61	61	0	0
2013	61	1.0000	1.0000	61	21,093	0.0029	0.0029	61	61	0	0
2014	59	1.0000	1.0000	59	20,981	0.0028	0.0028	59	59	0	0
2015	35	1.0000	1.0000	35	20,924	0.0017	0.0017	35	35	0	0
2016	44	1.0000	1.0000	44	20,731	0.0021	0.0021	44	44	0	0
2017	42	1.0000	1.0000	42	20,644	0.0020	0.0020	42	42	0	0
2018	54	1.0000	1.0000	54	20,523	0.0026	0.0026	54	54	0	0
2019	35	1.0000	1.0000	35	20,442	0.0017	0.0017	35	35	0	0
2020	2	2.1869	0.4573	4	20,245	0.0002	0.0021	25	25	23	23
Total	4,201			4,203				4,224			

- Notes:
- Cumulative development factors in column (2) are selected in Unreported Exhibit 4.
 - Column (8) is (column (7) x column (5)) x (1 - 1 / column (2)) + column (1).
 - Column (11) is (prior year column (3) - column (3)) / (1 - 1 / column (3)) x column (10) for release year 2020 only. Other release years are equal to 0 because of the Board's one-year reporting requirement.

Ohio Petroleum Underground Storage Tank Release Compensation Board By Release Year

Unreported Exhibit 5

Cumulative Closed Claims As of 6/30/2021

Release Year	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324	336	348	360	372	384	396			
1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1989	0	0	2	18	38	55	70	81	84	87	96	107	118	133	144	161	173	193	200	208	219	221	227	230	235	239	241	242	243	244	246	248	0			
1990	0	2	31	72	100	128	146	159	176	185	192	222	245	267	279	294	299	309	319	324	326	329	334	336	342	343	345	346	348	349	0	0	0			
1991	0	5	53	94	120	134	143	157	178	189	201	232	254	290	307	329	342	353	356	356	361	367	371	373	374	380	383	384	384	384	0	0	0			
1992	0	9	24	37	53	62	75	89	103	118	133	150	175	194	211	218	228	234	245	250	256	262	264	268	271	273	275	275	276	0	0	0	0			
1993	0	4	15	34	42	49	57	69	79	84	96	115	118	131	135	145	152	157	162	167	172	174	175	177	179	182	183	183	0	0	0	0	0			
1994	0	3	16	24	26	34	40	48	61	74	91	104	124	129	136	142	146	155	162	170	175	177	180	180	180	181	182	0	0	0	0	0	0			
1995	0	4	16	23	27	40	48	58	70	86	96	107	113	118	121	125	129	131	135	136	141	141	141	141	142	143	144	0	0	0	0	0	0			
1996	0	6	11	22	28	31	38	49	61	68	75	80	81	84	87	88	93	96	101	106	108	108	108	109	109	0	0	0	0	0	0	0	0			
1997	0	1	12	20	26	35	48	58	69	75	82	88	90	96	101	103	107	113	116	120	121	122	125	0	0	0	0	0	0	0	0	0	0	0		
1998	0	3	8	15	29	41	52	62	71	77	81	84	86	87	89	93	99	103	103	105	106	107	107	0	0	0	0	0	0	0	0	0	0	0		
1999	0	0	2	4	10	14	15	18	21	23	25	26	26	27	27	29	30	30	31	32	33	33	0	0	0	0	0	0	0	0	0	0	0	0		
2000	0	0	1	5	7	11	15	18	21	21	21	22	22	22	22	23	24	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	
2001	0	0	1	2	7	14	17	18	18	18	21	22	25	27	29	29	29	29	29	29	29	29	0	0	0	0	0	0	0	0	0	0	0	0	0	
2002	0	0	2	5	9	17	17	20	21	23	23	27	29	29	30	31	32	32	32	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2003	0	0	3	16	19	21	26	33	36	36	38	39	40	40	41	41	41	41	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2004	0	1	5	10	11	12	15	24	26	28	28	29	31	31	31	32	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2005	0	0	8	11	16	22	29	36	42	44	45	49	52	54	55	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2006	0	1	4	15	19	24	28	33	36	38	40	41	43	45	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2007	0	5	10	16	20	26	35	38	41	47	50	51	52	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2008	0	3	7	14	20	27	37	39	45	46	47	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2009	0	2	10	14	23	27	31	34	35	36	40	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2010	0	2	5	11	14	18	21	23	23	27	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2011	0	3	13	19	24	26	31	32	35	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012	0	7	17	21	25	31	34	38	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2013	0	5	17	24	27	32	38	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2014	0	2	13	21	25	31	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2015	0	0	8	14	16	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2016	0	3	11	15	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2017	0	1	6	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2018	0	2	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cumulative Open Claims As of 6/30/2021

Release Year	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324	336	348	360	372	384	396			
1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1989	1	161	314	302	286	278	267	263	260	257	248	237	226	211	200	183	171	151	144	136	125	123	117	114	109	105	103	102	101	100	98	96	0	0		
1990	163	431	412	373	351	326	343	330	313	304	297	280	267	244	222	210	195	190	180	170	165	163	161	155	153	147	146	144	141	141	141	140	0	0		
1991	198	434	424	402	384	409	400	386	365	354	342	311	289	253	236	214	201	190	187	187	182	176	172	170	169	163	160	159	159	159	0	0	0	0		
1992	92	314	327	334	354	346	334	320	306	291	276	259	234	215	198	191	181	175	164	159	153	147	145	141	138	136	134	134	134	133	0	0	0	0		
1993	77	217	234	254	246	239	231	219	209	204	192	173	170	157	153	143	136	131	126	121	116	114	113	111	109	106	105	105	0	0	0	0	0	0		
1994	71	215	274	267	265	257	251	243	230	217	200	187	167	162	155	149	145	136	129	121	116	114	111	111	111	110	109	0	0	0	0	0	0	0	0	
1995	64	198	189	182	178	165	157	147	135	119	109	98	92	87	84	80	76	74	70	69	64	64	64	63	62	61	0	0	0	0	0	0	0	0	0	
1996	79	153	150	139	133	130	123	112	100	93	86	81	80	77	74	73	68	65	65	60	55	53	53	52	52	52	0	0	0	0	0	0	0	0	0	
1997	73	191	180	172	166	157	144	134	122	123	117	110	104	102	96	91	89	85	79	76	72	71	69	67	0	0	0	0	0	0	0	0	0	0	0	0
1998	89	171	170	163	149	137	126	116	107	101	97	94	92	91	89	85	79	75	75	73	72	71	71	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	19	66	64	62	56	52	51	48	45	43	41	40	40	39	39	37	36	36	35	34	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	14	36	35	31	29	25	21	18	15	15	15	14	14	14	14	13	12	11	11	11	11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	12	40	39	38	33	26	23	22	22	22	22	19	18	15	13	11	11	11	11	11	11	0	0	0												