Workers' Compensation and Employer Liability Trust Board Regular Meeting

February 3, 2022 | 4:00 p.m. Council Chambers Conference Room 88 E. Chicago St., Chandler, AZ or Webex 1-415-655-0001 code 2597 640 4363 password JEaZpKt9b28





Board Members

Alexander Myer, Chair Michael Bohnert, Vice Chair Lily Longacre, Secretary Terry Bond Val Gale

Pursuant to Resolution No. 4464 of the City of Chandler and to A.R.S. § 38-431.02, notice is hereby given to the members of the Workers' Compensation and Employer Liability Trust Board and to the general public that the Workers' Compensation and Employer Liability Trust Board will hold a REGULAR MEETING open to the public on Thursday, February 3, 2022, at 4:00 p.m., at Council Chambers Conference Room, 88 E. Chicago Street, Chandler, AZ or via Webex by dialing 1-415-655-0001, Access Code 2597 640 4363 and passcode JEaZpKt9b28.

Persons with disabilities may request a reasonable modification or communication aids and services by contacting the City Clerk's office at (480) 782-2181(711 via AZRS). Please make requests in advance as it affords the City time to accommodate the request. Agendas are available in the Office of the City Clerk, 175 S. Arizona Avenue.

Workers' Compensation and Employer Liability Trust Board Regular Meeting Agenda - February 3, 2022

Call to Order/Roll Call

Scheduled/Unscheduled Public Appearances

Members of the audience may address any item not on the agenda. State Statute prohibits the Board or Commission from discussing an item that is not on the agenda, but the Board or Commission does listen to your concerns and has staff follow up on any questions you raise.

Consent Agenda

Items listed on the Consent Agenda may be enacted by one motion and one vote. If a discussion is required by members of the Board or Commission, the item will be removed from the Consent Agenda for discussion and determination will be made if the item will be considered separately.

1. November 18, 2021 City of Chandler Workers' Compensation and Employer Liability Trust Board Minutes

Move to approve the Chandler Workers' Compensation and Employer Liability Trust Board minutes from November 18, 2021.

Briefing

2. Rate Contribution and Reserve Recommendation - Management Services

- 3. Actuarial Audit Report Oliver Wyman
- 4. Financial Audit Report Heinfeld Meech
- 5. Financial Statements Management Services
- 6. Investment Report Management Services

Action Agenda

7. Resolution No. WC-009

Move to approve Resolution No. WC-009 for the City of Chandler Workers' Compensation and Employer Trust Liability Trust Fund Board Recommending Workers' Compensation Contribution and Reserve Level for Fiscal Year 2022-23.

Member Comments/Announcements

Calendar

8. Next meeting is scheduled for Thursday, June 16, 2022 (combined meeting).

Informational

- 9. Financial Statements
- 10. Investment Report
- 11. Excess Insurance Renewal
- 12. CorVel Contract Renewal
- 13. New Members and Election of Officers

Adjourn



Workers' Compensation And Employer Liability Trust Board Human Resources Memo No.

Date: 02/03/2022

To: Workers' Compensation And Employer Liability Trust Board

From: Teresa Canjar, Management Assistant

Subject: November 18, 2021 City of Chandler Workers' Compensation and Employer Liability Trust Board Minutes

Proposed Motion:

Move to approve the Chandler Workers' Compensation and Employer Liability Trust Board minutes from November 18, 2021.

Attachments

11-18-21 Minutes

Meeting Minutes Workers' Compensation and Employer Liability Trust Board Regular Meeting

November 18, 2021 | 4:00 p.m. Council Chambers Conference Room 88 E. Chicago St., Chandler, AZ



Gail to Order

The meeting was called to order by Chairman Myer at 4:04 p.m.

Roll Call Board Attendance

Chair Alex Myer Vice Chair Michael Bohnert Secretary Lily Longacre Val Gale

Other Attendance

Fernanda Osgood, Benefits/Compensation Manager Kristi Smith, Accounting Manager Rae Lynn Nielsen, HR Director Roni Laxa, Assistant City Attorney Teresa Canjar, Management Assistant

Absent

Terry Bond

Scheduled and Unscheduled Public Appearances

Consent Agenda and Discussion

1. September 16, 2021Minutes

Vice Chair Bohnert made a motion to approve the minutes as presented from the September 16, 2021, meeting of the City of Chandler Workers' Compensation and Employer Liability Trust Board, seconded by Ms. Longacre, motion carried.

Briefing

1. Financial Statements

Statement of Net Position as of September 30, 2021

Kristi Smith advised the Board that the total assets were \$14,775,342, cash is up \$700,000 from last quarter, and Due from the City is down about \$510,000. Total liabilities is \$31,000, down \$75,000 because no accounts payable were reported this quarter. The unrestricted net position is \$14,744,342 which is up from last quarter. When you compare the Net Reserve to 6/30/20, there is a surplus of almost \$3.4 million. The Trust audit has been completed by Heinfeld Meech and the results will be presented at the February 2, 2022, meeting. Special thank you to Human Resources staff for all the information they provided.

Statement of Revenues, Expenses and Changes in Net Position – September 30, 2021

The 2021 Budget prorated for 3 months. The total actual operating revenues are \$1,193,370 which is slightly over budget. Operating expenses are under budget at \$945,547. The actual operating Income is \$247,823 which is higher than anticipated. The nonoperating revenues and expenses total \$29,141 and there is a change in net position at \$276,964. The ending net position is \$14,744,342 which agrees with the Statement of Net Position.

Statement of Cash Flows - September 30, 2021

Kristi Smith advised the Board that this report shows the inflows and outflows of cash by activity. The Cash and Investments total \$14,571,252 which agrees with the Statement of Net Position.

2. Investment Report – September 30, 2021

Kristi Smith provided a brief overview of the Investment Performance Review. The report looks a little different because they have changed their name to PFM Asset Management LLC and are now under the US Bank umbrella. The portfolio statistics yield at cost is 0.50% which is down from 0.56% in the previous quarter. Yield at Market is 0.32% which is the same as last quarter. Effective Duration is at 1.87 as compared to the prior quarter of 1.83. The Benchmark Effective Duration is 1.83. The money market rate for Wells Fargo (now Allspring Global Investments) is 0.01% and PFM is 0.02%, which is in line with the last quarter. The Sector Allocation has been pretty consistent with prior quarters.

Calendar

The next regular meeting will be held on Thursday, February 3, 2022, at 4:00 p.m., in the Council Chambers Conference Room, 88 E. Chicago St.

Informational Items

Agenda Items for Future Meeting Dates

Financial Audit Report – Heinfeld Meech Financial Statements – Management Services Investment Report – Management Services Rate Contribution and Reserve Recommendation – Management Services

Adjourn

Mr. Gale made a motion to adjourn the meeting of the City of Chandler Workers' Compensation and Employer Liability Trust Board of November 18, 2021, at 4:12 p.m., seconded by Vice Chair Bohnert, motion carried.

Teresa Canjar, Secretary

Alexander Myer, Chair



Workers' Compensation And Employer Liability Trust Board Human Resources Memo No.

Date:	02/03/2022
То:	Workers' Compensation And Employer Liability Trust Board
From:	Teresa Canjar, Management Assistant
Subject:	Rate Contribution and Reserve Recommendation - Management Services

Attachments

Rate Contribution and Reserve Analysis

Workers' Compensation and Employer Liability Trust Contribution and Reserve Analysis for FY 2022-23

			Change from
Actuarial Report Comparison	June 30, 2020	June 30, 2021	Prior Year
	Νοι	minal/Central Valu	e
Estimated Unpaid Losses & ALAE	8,795,715	10,458,761	1,663,046
Projected Ultimate Losses & ALAE	2,555,000	2,700,000	145,000
	11,350,715	13,158,761	1,808,046
			15.9%
			Change from
Audit Report Comparison	June 30, 2020	June 30, 2021	Prior Year
		Net Position	
Net Position, restated	3,705,693	4,001,471	295,778
IBNR & Case Reserves	8,975,715	10,458,761	1,483,046
Net Position w/o IBNR	12,681,408	14,460,232	1,778,824
			14.0%
Amount over (under)	1,330,693	1,301,471	

	Actual FY		Estimated FY	Proposed FY	
Reserve Analysis	19/20	Actual FY 20/21	21/22	22/23	
Beginning Fund Balance	9,521,901	12,325,282	14,467,378	15,270,137	
Revenues					
Contribution to Fund/Int Income	4,629,344	4,795,083	4,443,000	4,483,700	
Transfer In from Utilites for Safety Pos.	55,288	57,286	58,971	58,922	
Transfer In from General Fund	1,000,000	-	-	-	
Transfer In for Muni FF Cancer Reimb Fd	-	-	676,429	676,429	
Total Revenues	5,684,632	4,852,369	5,178,400	5,219,051	
Expenditures					
Operating Expenditures	(958,842)	(873,839)	(1,970,641)	(2,173,828)	
Claim Expenditures	(1,922,409)	(1,836,434)	(2,405,000)	(3,000,000)	
Total Expenditures	(2,881,251)	(2,710,273)	(4,375,641)	(5,173,828)	
Ending Fund Balance	12,325,282	14,467,378	15,270,137	15,315,360	
Actuarially Calculated "Nominal/Central Level" (6/30/21 report)					
Projected Fund Balance for FY 2022-23 over Nominal/Central Level					

Recommendation of Change in City Contribution to Trust for FY 2022-23	FY 2021-22	FY 2022-23	Change in Contribution
Ongoing Contribution	4,383,700	4,383,700	-



Workers' Compensation And Employer Liability Trust Board Human Resources Memo No.

Date:	02/03/2022
То:	Workers' Compensation And Employer Liability Trust Board
From:	Teresa Canjar, Management Assistant
Subject:	Actuarial Audit Report - Oliver Wyman

Attachments

Summary Actuarial Audit Report **OLIVER WYMAN**

Workers Compensation Unpaid Losses & ALAE Executive Summary



Scope of Analysis

- Estimated unpaid losses and allocated loss adjustment expense (ALAE) as of June 30, 2021 for accidents occurring between January 1, 2003 and June 30, 2021 at an actuarial central estimate and various probability levels
- Projected ultimate losses and ALAE for policy period July 1, 2021 – 2022 at an actuarial central estimate and various probability levels

Important Assumptions

 All estimates are limited to the City's self-insured retentions, which increased from \$500,000 to \$600,000 per-occurrence effective 7/1/12, to \$1M for police / fire effective 7/1/15, to \$1.25M for police / fire effective 7/1/18, to \$750,000 / \$2.25M effective 7/1/20 and to \$1M / \$3M effective 7/1/21.

Key Findings

- The unpaid estimate has increased by approximately \$1.7M due to the experience in 7/1/20-21 policy year, which already has seven claims exceeding \$75k, including a police officer COVID claim with \$1.1M in case reserves.
- The forecast for 21/22 is up 5.7% from the prior forecast due to increases in payroll and the retained limits.

Actual vs. Expected Results Reported Losses & ALAE 6/30/20 to 6/30/21 Actual Expected AvE \$1,465,601 \$1,049,346 \$416,255 Ultimate Losses & ALAE 6/30/20 to 6/30/21 Prior Current Change \$34,617,455 \$35,594,116 \$976,661



• Actual versus Expected results reflect changes in the claims from 6/30/20 to 6/30/21.

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CLIVER WYMAN

Workers Compensation Unpaid Losses & ALAE Executive Summary

City of Chandler Data evaluated as of June 30, 2021

Ultimate Loss Cost 14.00 12.00 10.00 8.00 6.00 4.00 2.00 0.00 1.0¹/₂, 21¹², 21¹², 21¹², 51¹², 11¹², 81¹², 91¹², 201¹²





Trend Assumptions

- The selected frequency trend is -0.5%.
- The selected severity trend is 2.5%.
- The selected loss cost trend is 2.0%.
- The loss cost and severity trends are adjusted to the current benefit level.
- The loss cost and severity trends are shown at a per occurrence retention of \$75,000.
- The combination of negative frequency trend and rising severity is not uncommon amongst municipalities and WC in general.

Key Findings

- Frequency has remained relatively stable, if not decreasing slightly, over the past 10 years, ranging from 1.0 to 1.5 claims per million dollars of payroll.
- Severity, with claims limited to \$75,000, has ranged from \$7,000 to \$12,000, and is generally increasing.
- The loss cost, with claims limited to \$75,000, has ranged from \$8 to \$13 per thousand dollars of payroll.

inning of Period Unpaid Losses as of 6/30/20	\$8,795,715
Plus Estimated Ultimate Losses for 7/1/20 - 6/30/21	\$3,515,000
Plus Change in Ultimate Losses through 6/30/21	\$16,661
Less Actual Payments (6/30/20-6/30/21)	\$1,868,615
of Period Unpaid Losses as of 6/30/21	\$10,458,761

Reconciliation of Reserves

		Current	Current		Incurred	Current
Claimant	Date of Loss	Status	Incurre d	Prior Incurred	Change	Paid
CN-21-005148	12/27/2020	0	\$1,106,036	\$0	\$1,106,036	\$23,80
CN-18-005439	3/6/2018	0	\$627,354	\$192,181	\$435,173	\$183,35
CN-17-005633	4/20/2017	0	\$533,992	\$149,744	\$384,248	\$155,28
CN-03-0500013	2/12/2003	0	\$759,016	\$536,033	\$222,984	\$530,98
CN-21-005129	12/7/2020	0	\$184,857	\$0	\$184,857	\$158,58
CN-21-005153	12/29/2020	0	\$145,605	\$0	\$145,605	\$12,14
CN-08-0500047	9/13/2007	0	\$125,775	\$1,593	\$124,183	\$5,81
CN-13-005205	3/19/2013	0	\$329,972	\$209,557	\$120,415	\$207,41
CN-21-005190	3/11/2021	0	\$107,351	\$0	\$107,351	\$58,66

Your Actuarial Team

Adam Hirsch, FCAS, MAAA Principal adam.hirsch@oliverwyman.com 213-346-5352

Visit Us

Los Angeles Office: 633 West Fifth St., Suite 1200 Los Angeles, CA 90071

www.oliverwyman.com

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ACTUARIAL ANALYSIS OF WORKERS' COMPENSATION UNPAID LOSSES & ALAE AS OF JUNE 30, 2021

CITY OF CHANDLER

September 29, 2021

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1. EXECUTIVE SUMMARY

Purpose and Scope

Oliver Wyman Actuarial Consulting, Inc. (Oliver Wyman) has been retained by the City of Chandler (the City) to provide actuarial consulting services. The purpose of this analysis is to estimate unpaid losses and allocated loss adjustment expense (ALAE) as well as claim cost projections for the City's workers' compensation (WC) exposures. The conclusions in this study are related to its stated purpose and may not be applicable for other purposes.

The analysis provides the following:

- Unpaid losses and ALAE as of June 30, 2021 for claims incurred through that same date.
- Projected ultimate losses and ALAE for policy period July 1, 2021-22.
- Estimates of the 70%, 80% and 90% probability levels of the unpaid losses and ALAE as well as the projected ultimate losses as of June 30, 2021.

The estimates are based on data evaluated as of June 30, 2021 and additional information provided to Oliver Wyman (and only that information provided) through September 29, 2021.

The estimates are prepared on a nominal basis only; that is, there is no consideration of the time value of money.

Estimates are presented as actuarial central estimates. An actuarial central estimate is defined as an expected value over the range of reasonably possible, as opposed to all conceivable, outcomes.

Additionally, estimates are provided at the 70%, 80% and 90% probability levels, meaning the estimates include a margin for potential adverse development over the long term average. These estimates represent the amount for which there is a 70%, 80% or 90% chance that the actual unpaid losses and ALAE or projected ultimate losses and ALAE will be less than or equal to this value.

Unless otherwise stated, all references to loss should be understood to include ALAE and be net of salvage and subrogation. Please note that ALAE is an insurance industry term which generally refers to costs that can be attributed to the settlement of individual claims. Fees paid to outside defense attorneys and medical management costs represent a major portion of this expense item. Also, please note that the terms unpaid losses, reserves and liabilities are used interchangeably throughout this report.

The scope of this project did not include the estimation of any expenses other than ALAE that are sometimes associated with insurance programs. Such expenses include unallocated loss adjustment expense (ULAE), reinsurance premiums, the costs of trustee, legal, administrative, risk management and actuarial services, taxes, fees and assessments, and costs for surety bonds or letters of credit pertaining to outstanding liabilities or capital requirements. ULAE is the insurance industry term generally used to refer to any claims-handling costs that cannot be attributed to individual claims. Fees paid to third party administrators (TPAs) and salaries paid to in-house claim adjusters and in-house defense attorneys represent examples of this type of expense.

This report sets forth the results of Oliver Wyman's analysis and is accompanied by exhibits which should be considered integral parts of this report.

Actuarial Findings

Table 1 below summarizes the nominal unpaid losses & ALAE, at the appropriate self-insured retention (SIR) levels as of June 30, 2021. Estimates are presented both at an actuarial central estimate and the 70%, 80% and 90% probability levels.

Evaluation Date	Actuarial Central	Probability Levels		
	Estimate	70th	80th	90th
As of June 30, 2021	10,458,761	11,975,281	13,878,776	17,016,404
As of June 30, 2020	8,795,715	10,079,889	11,707,097	14,416,177
Change	1,663,046	1,895,392	2,171,679	2,600,227

Table 1:	Estimated	Unpaid	Losses	& ALAE
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The estimate of approximately \$10.5 million as of June 30, 2021 represents an increase of approximately \$1.7 million since the actuarial analysis performed as of June 30, 2020. The increase is driven by the inclusion of the experience in policy year 7/1/20 - 6/30/21, which already has seven claims above the \$75,000 incurred threshold, including claim number CN-21-005148, which has approximately \$1.1 million in case reserves and is one of three police officer COVID claims the City has seen with incurred amounts over \$75,000. Total incurred to date for this policy year, approximately \$2.6 million, has already surpassed our initial projected ultimate loss for the period and is notably higher than the incurred values of prior policy years 12 months from inception.

Projected Ultimate Losses and ALAE

The nominal losses and ALAE expected to be incurred during policy period 7/1/21 - 6/30/22 by the City, with a self-insured retention of \$3.0 million for police and fire employees and \$1.0 million for all other employees, are as shown in Table 2 below.

Self-Insured	Actuarial Central	Pr	obability Lev	els
Retention	Estimate	70th	80th	90th
1M / 3M	2,700,000	3,096,900	3,626,100	4,514,400

Table 2: Pr	rojected Ultimate I	Losses and ALAE	for Polic	y Period 21/22
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This forecast is based on Oliver Wyman's estimated loss costs (losses per unit of exposure) and the City's forecasted exposures. It should be noted that since the projected losses and ALAE are directly related to the forecasted exposures, if actual exposures differ from the forecast, the projected losses and ALAE should be adjusted accordingly.

Relevant Comments

Unpaid losses and ALAE are composed of claims examiners' estimates and IBNR amounts. The claims examiners' estimates are established by individual claim adjusters on open claims. Claims examiners' estimates are based on the facts of a claim as they are known today; these estimates do not anticipate that a claim will change. The IBNR amounts are estimated by Oliver Wyman and include amounts for late reported and re-opened claims as well as development on known open claims. The fact that Oliver Wyman's IBNR amounts include a provision for development on known claims does not necessarily imply that there is a problem with the claim examiner estimates. The tendency is that, in aggregate, damages or injuries are worse than originally thought. Thus, an adequate provision for unpaid losses and ALAE should include a provision for upward development. Please note that Oliver Wyman's IBNR amounts are appropriate for all historical policy periods in aggregate but not necessarily for any one particular policy period.

2. BACKGROUND

Founded on May 17, 1912, the City of Chandler is located in the Greater Phoenix Valley of Arizona, located 20 miles from the Phoenix Sky Harbor Airport.

The City began self-insuring its Workers' Compensation exposures on July 1, 2002 and has maintained a self-insured retention since inception. Prior to that date, the City's Workers' Compensation liabilities were covered through a guaranteed cost program.

The City's self-insured retentions since July 1, 2002 are as displayed below. All self-insured retentions are assumed to be on a per occurrence basis and eroded by loss and ALAE.

Policy Years	Self-Insured Retention									
	Police / Fire	All Other								
7/1/02-03 to 7/1/11-12	500,	,000								
7/1/12-13 to 7/1/14-15	600,	,000								
7/1/15-16 to 7/1/17-18	1,000,000	600,000								
7/1/18-19 to 7/1/19-20	1,250,000	600,000								
7/1/20-21	2,250,000	750,000								
7/1/21-22	3,000,000	1,000,000								

3. DATA

For this study, Oliver Wyman relied on the accuracy and completeness of data and information provided by the City without independent audit. This actuarial analysis is based upon the review of this data and also insurance industry data, along with practical knowledge and training in actuarial theory, which together enable us to interpret the results of calculations. Throughout the process, the data played an important role. The accuracy and validity of the actuarial analysis are dependent on, among other things, the quality of the data used. If the underlying data are inaccurate or incomplete, the results of Oliver Wyman's analysis may likewise be inaccurate or incomplete.

Oliver Wyman has attempted to review the data used directly in this analysis for the purpose of identifying values that are questionable or relationships that are materially inconsistent. In cases where the data are incomplete, inaccurate, or not as appropriate as desired, Oliver Wyman has considered whether the use of such data may produce material biases in the results of this study, or whether the data are so inadequate that the data cannot be used to satisfy the purpose of this study.

Oliver Wyman has not, however, audited or verified this data since this is beyond the scope of the assignment. Also, it should be noted that Oliver Wyman's review of data may not always reveal imperfections and that there may be situations where it is impossible or impracticable to perform a sufficient review of the data. Neither has Oliver Wyman examined any insurance contracts covering the years applicable to this analysis.

Specifically, the data relied upon are as follows:

- Historical ground-up and unlimited detailed claims listings as June 30, 2021 provided by the City
- Historical estimated and audited (where applicable) payrolls by period provided by the City
- Oliver Wyman's prior study Actuarial Analysis of Workers' Compensation Unpaid Loss and ALAE as of June 30, 2020 dated September 29, 2020
- Industry loss development factors, increased limit factors and benefit level changes from the 2019 and 2020 Annual Statistical Bulletins published by National Council on Compensation Insurance (NCCI)

4. METHODOLOGY

The estimates in this report are developed in accordance with of the Casualty Actuarial Society and the applicable standards of the American Academy of Actuaries. Below is a discussion of the details underlying the actuarial methodologies and assumptions used by Oliver Wyman in the analysis. Oliver Wyman's projections for the City assumed that the patterns observed in historical policy periods will be applicable to future policy periods.

Oliver Wyman first selected ultimate losses limited to \$75,000, which provides a more stable base for projections than the City's historical SIRs (or losses at statutory limits). Oliver Wyman then used the City's data supplemented with insurance industry data to bring the \$75,000 limit estimates to the actual SIR by policy period.

To develop the estimates of limited ultimate losses, Oliver Wyman applied the following generally accepted actuarial techniques.

- Paid loss development method
- Incurred loss development method
- Paid Bornhuetter-Ferguson method
- Incurred Bornhuetter-Ferguson method
- Frequency / severity method
- Loss cost method

The following describes these methods in more detail:

Loss Development Method

This method involves estimating how losses will develop in the future. Historical patterns are identified by creating a loss triangle. The triangle presents paid or incurred losses over time at successive 12-month valuations. The triangle reveals how paid or incurred losses have changed over time. From this historical loss development experience, loss development factors (LDFs) are selected to represent Oliver Wyman's expectations of future loss development. If the Company's exposure is small and there is not enough historical data to determine its own patterns, or if the Company's own patterns are volatile, then insurance industry data may be used to help select appropriate loss development factors.

An accumulation of the selected LDFs provides a means of estimating how losses will develop up to the time that all losses have been settled. The calculated accumulated LDFs are applied directly to the latest paid or incurred losses to project ultimate losses.

An advantage of the paid loss development method is that its predictive accuracy is independent of case reserving practices and philosophies.

The advantages of the incurred loss development method are that incurred losses provide a larger statistical database than paid losses (since claims examiners' estimates are used in addition to payments) and that incurred losses provide more current information (since payments lag behind the establishment of claims examiners' estimates).

Bornhuetter-Ferguson Method

The Bornhuetter-Ferguson (B-F) method is a blending of the results of the loss development method with an *a priori* expectation of ultimate losses. Expected unpaid or unreported losses are added to cumulative paid or incurred losses to derive an estimate of ultimate losses. Expected unpaid or unreported losses are derived by applying the portion of ultimate losses that are estimated to be unpaid or unreported to the expected ultimate losses.

Please note that the preliminary ultimate losses are selected based on the loss development methods and the loss cost method (described below) for the more recent years. The loss development factors are the same as those used in the loss development method.

An advantage of the B-F method is that estimates of ultimate losses tend to be more stable than the usual loss development method. This is because estimates based on the B-F method are generally a weighted average between the estimate based on a loss development methodology and the preliminary estimates of ultimate losses.

Frequency / Severity Method

Under the frequency / severity method, the ultimate loss for each policy period is the product of the selected ultimate severity (i.e., average cost per claim) multiplied by the ultimate number of reported claims. The preliminary ultimate losses are based on the loss development methods.

The ultimate severity for the most recent policy period is judgmentally selected based on the historical severities trended to the current period's cost level. The ultimate severity for prior policy periods equals the selected current severity, detrended to the appropriate cost level.

Loss Cost Method

Under the loss cost method, an ultimate loss cost is judgmentally selected and multiplied by the exposure to obtain the ultimate loss estimate. Loss cost equals ultimate losses divided by exposure. Ultimate loss costs are judgmentally selected based on the City's historical loss cost, adjusted for inflation. The preliminary losses are based on the loss development methods.

This method can be useful for estimating ultimate losses for the most recent and for future policy periods. The advantages of using a loss cost method for the more recent policy periods are that it accounts for changes in exposure and is less affected by changes in closing and reserving practices than are the incurred and paid development methods.

Estimated Ultimate Number of Claims

Similar to the paid and incurred loss development factors, reported claim count development factors are calculated based on historical claims triangles created from the City's own experience. The selected count development factors are applied to the City's reported counts to determine an estimate of the ultimate number of claims.

A second estimate of the ultimate number of claims is developed based on a combination of the frequency and B–F methods. Oliver Wyman first trends the above-estimated ultimate counts by using a judgmentally

selected frequency trend. Using the selected count development factors, the percentage of unreported claim counts is determined. Lastly, these unreported counts are then added to the reported counts to date to create a second estimate of ultimate number of claims. Oliver Wyman then judgmentally selects the ultimate number of claims based on the two estimates.

Estimated Unpaid Losses and ALAE at Retained Limits

To develop the estimates of retained ultimate losses, Oliver Wyman applied three generally accepted actuarial techniques: the Increased Limit Factor (ILF) Method, the LDF method, and the Excess Method.

In the ILF Method, Oliver Wyman used the City's data supplemented with insurance industry data to create ILFs, which is a ratio of expected losses at higher limits to expected losses the selected limit of \$75,000. These selected ILFs were multiplied by the \$75,000 limited ultimate loss estimates to bring these estimates to the actual SIR by policy period. This method can be useful for estimating ultimate losses for policy periods with a larger unknown. Typically, this is most useful for more recent or future policy periods and for policy periods with a significantly high SIR, where actual losses have not yet had time to develop into that layer.

In the LDF Method, Oliver Wyman used internal data to adjust the selected limited loss development factors to reflect the incurred loss development pattern appropriate for the actual retention limit by policy period. These LDFs were then applied to the retained incurred losses. This method is useful when it is appropriate to assume that historical development patterns are representative of future development patterns, regardless of what has been reported so far in a given policy period.

In the Excess Method, Oliver Wyman used the aforementioned ILFs, LDFs at the \$75,000 limits, and LDFs at the actual retention limit to calculate an estimate of IBNR excess of the \$75,000 limit. This amount was then added to the limited ultimate losses and the excess incurred losses to estimate ultimate losses at the actual retention limit. This method is a blend of the ILF and LDF methods.

To estimate the unpaid losses at the City's retention limits, Oliver Wyman selected ultimate losses at the City's retention limits based on the three methods described above, and then subtracted the City's actual payments at the retention limits.

Estimates of Reserves at Various Probability Levels

Oliver Wyman provides estimates of loss and ALAE reserves as of June 30, 2021 at the actuarial central estimate and at various probability levels. A compound Poisson model was developed to gauge the volatility of potential losses. The parameters for the stochastic model were determined based on Oliver Wyman's analysis of the claim detail.

Oliver Wyman has assumed the loss and ALAE reserves follow a lognormal distribution with a coefficient of variation (CV) of 50%. The frequency and severity for the lognormal distribution were estimated based on the number of open and IBNR claims and based on the CV of the City's loss experience, respectively. Oliver Wyman has judgmentally introduced a variable to calculate any additional parameter risk involved.

These calculations assume Oliver Wyman has correctly measured the parameters of the model and do not include estimates of the additional variation which will be caused by misestimating the expected number of claims and the average claim cost.

Projection of Ultimate Losses and ALAE for Future Policy Periods

To project future losses at the SIR (assuming SIR remains unchanged in the upcoming period), Oliver Wyman adjusted historical ultimate losses limited to \$75,000 to the projected cost and benefit levels and adjusted historical ultimate claim counts to the projected frequency levels.

Using the loss cost method, Oliver Wyman selected a projected loss cost, the result of which was multiplied by projected payroll. The results are estimated ultimate loss and ALAE, limited to \$75,000, for calendar accident period 7/1/2021 - 6/30/2022. Using the frequency/severity method, Oliver Wyman selected a projected frequency and severity. The selected frequency was multiplied by projected payroll to arrive at an estimate of projected ultimate claim counts, which was then multiplied by the selected severity to arrive at a second indication of the estimate ultimate loss and ALAE, limited to \$75,000, for calendar period 7/1/2021 - 6/30/2022. Oliver Wyman then judgmentally selects a projected ultimate loss and ALAE, limited to \$75,000, for calendar period 7/1/2021 - 6/30/2022. Oliver Wyman then judgmentally selects a projected ultimate loss and ALAE, limited to \$75,000, based on these two indications and shows the resulting selected limited forecasted loss cost, limited to \$75,000.

This selected limited forecasted loss cost was then multiplied by the projected payroll and an increased limit factor to bring the estimate up to the SIR.

5. DISTRIBUTION AND USE

Usage and Responsibility of Client – Oliver Wyman prepared this report for the sole use of the client named herein for the stated purpose. This report includes important considerations, assumptions, and limitations and, as a result, is intended to be read and used only as a whole. This report may not be separated into, or distributed, in parts other than by the client to whom this report was issued, as needed, in the case of distribution to such client's directors, officers, or employees. All decisions in connection with the implementation or use of advice or recommendations contained in this report are the sole responsibility of the client named herein.

Third Party Reliance and Due Diligence – Oliver Wyman's consent to any distribution of this report (whether herein or in the written agreement pursuant to which we issued this report) to parties other than of the client named herein does not constitute advice by Oliver Wyman to any such third parties. Any distribution to third parties shall be solely for informational purposes and not for purposes of reliance by any such parties. Oliver Wyman assumes no liability related to third party use of this report or any actions taken or decisions made as a consequence of the results, advice or recommendations set forth herein. This report should not replace the due diligence on behalf of any such third party.

6. CONSIDERATIONS AND LIMITATIONS

Data Verification – For our analysis, we relied on data and information provided by the client named herein without independent audit. Though we have reviewed the data for reasonableness and consistency, we have not audited or otherwise verified this data. Our review of data may not always reveal imperfections. We have assumed that the data provided is both accurate and complete. The results of our analysis are dependent on this assumption. If this data or information is inaccurate or incomplete, our findings and conclusions might therefore be unreliable.

Prospective Policy / Accident Period Estimates – We estimated the prospective policy/accident period estimates developed in this analysis using estimated loss costs and the projected exposures. Prospective period loss and ALAE estimates are directly related to the projected exposures. Therefore, if actual exposures differ from the projection, we would need to adjust the prospective policy/accident period estimates accordingly.

Supplemental Data – Where historical data of the client named herein was either (i) not available, (ii) not appropriate or (iii) not sufficiently credible to develop our actuarial assumptions, we supplemented it with external information, as we deemed appropriate. Although we believe these external sources may be more predictive of future experience of the client named herein than any other data of which we are aware, the use of external data adds to the uncertainty associated with our projections.

Exclusion of Other Program Costs – The scope of the project does not include the estimation of any costs other than those described herein. Such ancillary costs may include unallocated loss adjustment expenses (ULAE); excess insurance premiums; the costs of trustee, legal, administrative, risk management and actuarial services; fees and assessments; and costs for surety bonds or letters of credit pertaining to claim liabilities.

Assumption of Valid Insurance / Reinsurance – We assumed that all insurance/reinsurance is valid and fully collectible. We made no assessment, and do not express any opinion, concerning the viability or collectability of any insurance or reinsurance. We have not evaluated the financial strength, claims-paying ability or any other factors with regard to the past, current, and prospective insurers/reinsurers of the client named herein.

Funding of Claim Payments – We have not examined any assets that may be supporting the liabilities, and have made no assumptions regarding the maturities and liquidity of these assets, should they exist. This examination is beyond the scope of our review.

Rounding and Accuracy – Our models may retain more digits than those displayed. Also, the results of certain calculations may be presented in the exhibits with more or fewer digits than would be considered significant. As a result, there may be rounding differences between the results of calculations presented in the exhibits and replications of those calculations based on displayed underlying amounts. Also, calculation results may not have been adjusted to reflect the precision of the calculation.

Unanticipated Changes – We developed our conclusions based on an analysis of the data of the client named herein and on the estimation of the outcome of many contingent events. We developed our estimates from the historical claim experience and covered exposure, with adjustments for anticipated changes. Our estimates make no provision for extraordinary future emergence of new types of losses not sufficiently represented in historical databases or which are not yet quantifiable. Also, we assumed that

the client named herein will remain a going concern, and we have not anticipated any impacts of potential insolvency, bankruptcy, or any similar event.

Internal / External Changes – The sources of uncertainty affecting our estimates are numerous and include factors internal and external to the client named herein. Internal factors include items such as changes in claim reserving or settlement practices. The most significant external influences include, but are not limited to, changes in the legal, social, or regulatory environment surrounding the claims process. Uncontrollable factors such as general economic conditions also contribute to the variability.

Uncertainty Inherent in Projections – While this analysis complies with applicable Actuarial Standards of Practice, users of this analysis should recognize that our projections involve estimates of future events and are subject to economic and statistical variations from expected values. We have not anticipated any extraordinary changes to the legal, social, or economic environment that might affect the frequency or severity of claims. For these reasons, we do not guarantee that the emergence of actual losses will correspond to the projections in this analysis.

Probability Levels – We have calculated estimates of the statistical uncertainty associated with the process risk inherent in our estimates. However, unless otherwise indicated, our probability level estimates do not address parameter or model risk. To the extent that the probability estimates do not address parameter risk or model risk, the true variability of results is greater than the range of outcomes presented. The client named herein may wish to consider this additional uncertainty in evaluating the estimates presented in this report.

Obamacare - The Patient Protection and Affordable Care Act (PPACA or "Obamacare") was signed into law in 2010 with the goals of increasing coverage, affordability, quality, and efficiency of the current health care system. Provisions to accomplish these intended goals were implemented in phases, with some provisions taking effect in 2014 and beyond. Our estimates do not account for any potential impact, including potential future revisions or repeal/replacement, the PPACA will have on any lines of business included in this analysis.

Workers' Compensation - The Medicare, Medicaid and SCHIP Extension Act of 2007 (the Act) was enacted in part to ensure that Medicare does not pay medical benefits for beneficiaries whose medical treatments arise out of a liability or work-related accident. While Medicare has always been a secondary payer of these benefits, Medicare's rights to reimbursement have not been frequently exercised in the past. New reporting requirements under the Act enable Medicare to enforce its liens against primary payers and effectuate the reimbursement process. The ability of liability and workers compensation insurers to procure full and final medical settlements may be diminished under this Act. The passage of this Act increases the uncertainty in any estimate of unpaid losses and we have not attempted to quantify the impact of this Act.

COVID-19 Pandemic We have included no explicit adjustments in this report for the effect of the COVID-19 pandemic on loss experience except as specifically noted in this report. The impact of this event on loss experience is highly uncertain and generally unquantifiable at this time.

The potential impact of the COVID-19 pandemic on workers compensation experience is highly uncertain. The unprecedented nature of the pandemic, the numerous potential impacts on claims experience, and the uncertainty associated with activities and actions intended to temper the impact (such as client-specific actions or more general governmental interventions) increase the uncertainty underlying the

estimates contained in this report. There are numerous known and unknown potential impacts. We describe several of these uncertainties below:

- Compensability of COVID-19 Claims Businesses may incur workers compensation claims due to employees becoming infected with COVID-19. However, claims directly related to COVID-19 may or may not be determined compensable as an occupational disease, depending on statutes, regulations, and court interpretations specific to an individual jurisdiction.
 - Some jurisdictions have different standards for different diseases.
 - Some jurisdictions exclude ordinary diseases of life, such as influenza, from coverage.
 - Specific employee classifications, most notably those involved in healthcare with direct patient contact, and public safety officers, may have lower thresholds of compensability than other employee classifications.
 - Some jurisdictions, such as Washington State, have implemented material policy changes with respect to the compensability of COVID-19 related claims. Other jurisdictions may follow.
- Claim Frequency and Severity Considerations for potential impacts of the COVID-19 pandemic and related societal and economic impacts on workers compensation claim frequency and severity include:
 - Health Care Coverage: Some states have mandated that health insurance must cover testing and emergency room/ urgent care visits related to COVID-19 without deductibles or copays. These types of measures may serve to temper workers compensation claim activity related directly to the illness. Actions taken by individual employers may have the same impact.
 - High Demand Industries and Essential Businesses: The hiring of new employees to meet growing demand in some industries could lead to an increase in claims, as claim incidence rates associated with new employees are typically higher than those associated with longer-tenured employees. Additionally, employees performing work to which they are not accustomed may lead to higher average severity of claims. The new demand for these workers is likely leading to longer working hours, which may increase the number of claims. Essential businesses may also see an increase in mental stress claims. Compensability of mental stress claims varies by jurisdiction.
 - Economic Impacts: Sectors most affected by sudden job loss and furloughs may see an increase in workers compensation claims as employees seek to supplement their lost income. Potentially offsetting this increase, remaining employees may file fewer claims due to concerns over job security. The overall impact is unknown at this time. An economic downturn may also lead to an increase in claim severity. For example, employees may be more likely to involve attorneys in their claims, and claimants who are already receiving temporary disability benefits may attempt to extend those benefits.
- **Employers Liability** Employers liability may serve as a remedy for an employee who believes the infection was the result of employer negligence. If an employee's family member becomes infected, that could also lead to an employers liability claim.
- **Teleworking** Companies with a material shift to a teleworking environment may see an increase in claims for injuries related to non-ergonomic work environments stations and other potential safety hazards in employees' homes. Compensability of incidents related to these issues will vary by jurisdiction. Less exposure to other work-place hazards may have a counter effect.

 Claims Handling Considerations The claims process is likely to lengthen during this pandemic, leading to an increase in claim severity as workers compensation hearings and mediations are potentially postponed, and claimant access to doctors, nurse case managers and medical services is limited. Reduced availability of transitional duty jobs may also serve to increase claim costs for claimants who would have otherwise been able to return to work.

Potential impacts of the pandemic are many and the above only represents a sample of anticipated effects.

7. ACKNOWLEDGEMENT OF QUALIFICATIONS

Thank you for providing Oliver Wyman with the opportunity to develop this analysis for the City. We are prepared to discuss the results at your request.

I, Adam Hirsch, am a Principal with Oliver Wyman Actuarial Consulting, Inc. I am a Fellow of the Casualty Actuarial Society (FCAS), a Member of the American Academy of Actuaries (MAAA), and meet the Qualification Standards of the American Academy of Actuaries to counsel on the results contained herein.

Oliver Wyman Actuarial Consulting, Inc.:

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Adam Hirsch, FCAS, MAAA 633 West Fifth Street, Suite 1200 Los Angeles, CA 90071 (213) 346-5352

APPENDIX A. GLOSSARY

Accident Period

The period in which the event giving rise to a claim occurred, regardless of when the claim is actually reported.

Accounting Date

The point in time at which the estimate of unpaid claims and ALAE is evaluated.

Actuarial Central Estimate

An estimate that represents an expected value over the range of reasonably possible outcomes. Such range of reasonably possible outcomes may not include all conceivable outcomes.

Allocated Loss Adjustment Expense (ALAE)

Expense costs associated with the handling and settling of an individual claim that can be directly attributed to the particular claim. Fees paid to outside defense attorneys and investigation firms are examples of this expense cost.

Case Reserves

The unpaid claim estimates established by adjusters on an individual claim basis.

Claim

A demand for payment under the coverage provided by a plan or contract. As used throughout this Glossary, it also includes suits, potentially compensable events, notifications, and unasserted claims.

Claim Frequency

The number of claims that occur over a period of time per unit of exposure.

Claim Reporting Pattern

The rate at which claims are assumed to be reported over time.

Claim Severity

The average cost per claim.

Coefficient of Variation

A statistical measure of dispersion. The coefficient of variation is calculated as the standard deviation of the random process divided by the expected value (mean).

Confidence Level

The probability that the outcome of a random process will not exceed an associated estimate. For example, a 75% confidence level for an unpaid claim estimate of \$10 million would indicate that there is a 75% probability that the actual claim payments will be less than or equal to \$10 million. The estimate is defined in the context of the risks modeled in our analysis and may not consider all factors contributing to variability of outcomes.

Credibility

A measure of the predictive value of a body of data.

Development

The change between valuation dates in the observed values of certain fundamental quantities that may be used in the unpaid claim estimation process.

For example, the number of reported claims associated with events occurring within a particular period will change from one valuation date to the next until all claims have been reported. In a similar fashion, the paid claim amounts for events occurring within a particular period will change from one valuation date to the next until all claims have been reported and closed. The change in the number of reported claims or the change in the paid claim amounts is referred to as development. The concept of development also applies to reported incurred losses.

Estimated Ultimate Incurred Losses

The estimated cost of claims during a period. Ultimate incurred losses represent the total of paid claim amounts, case reserves, and IBNR.

Event

The incident or activity that triggers potential for claim or allocated claim adjustment expense payment.

Exposure

A measure of the underlying potential for claim costs.

IBNR

The unpaid claim estimate for: (a) events that have occurred for which claims have not been reported as of the accounting date, (b) future development of the case reserves, (c) claims that have been reported but not yet recorded in the loss listing, and (d) claims that have been closed but that will be reopened.

Loss

The cost associated with a claim. The cost may or may not include loss adjustment expenses.

Loss Adjustment Expenses

The costs of administering, determining coverage for, settling, or defending claims. Loss adjustment expenses include allocated loss adjustment expenses and unallocated loss adjustment expenses.

Loss Cost

The loss amount per exposure unit.

Method

The systematic procedure for developing an actuarial estimate.

Model

A mathematical or empirical representation of a specified phenomenon.

Model Risk

The risk that the methods are not appropriate to the circumstances or the models are not representative of the specified phenomenon.

Paid Losses

The total aggregate dollar amount paid on all reported claims as of a certain date.

Appendix A

Parameter Risk

The risk that the assumptions or parameters used in the methods or models are not representative of future outcomes.

Payment Pattern

The rate at which claims are paid over time.

Process Risk

The uncertainty associated with the projection of future contingencies that are inherently variable, even when the parameters are known with certainty.

Reported Incurred Loss Amount

The total of paid claim amounts and case reserves.

Subrogation

Recoveries from a third party responsible for the event for which a claim has already been paid.

Unallocated Loss Adjustment Expense (ULAE)

Loss adjustment expenses that cannot be attributed to an individual claim. Typically includes salaries, utilities, and rent apportioned to the claim adjustment expense function but not readily assignable to specific claims.

Unpaid Loss Estimate

The estimate of the obligation for future payments resulting from losses due to past events.

Valuation Date

The date through which transactions are included in the data used in the unpaid claim estimate analysis.

City of Chandler Workers' Compensation Losses & ALAE Forecast for period 7/1/21 to 6/30/22 Based on Data as of June 30, 2021

(1)	(1) Forecasted Loss Rate Limited to \$75,000	9.22				
(2)	Projected Exposures (\$1,000 Payroll)	142,931				
(3)	(3) Increased Limit Factor from \$75,000 to SIR	75,000 1.000	750k / 1M 1.868	750k / 1.25M 1.916	750k / 2.25M 1.996	1M / 3M 2.049
(4)	Forecasted Loss Rate Limited to SIR	9.22	17.23	17.67	18.41	18.89
(5)	Forecasted Uttimate Losses & ALAE (<i>Central Estim</i> ate)	1,318,000	2,462,000	2,526,000	2,631,000	2,700,000
(9)	70th Percentile Losses & ALAE Multiplier	1.147				
£	Forecasted Ultimate Losses & ALAE (70th Percentile Value)	1,511,746	2,823,914	2,897,322	3,017,757	3,096,900
(8)	(8) 80th Percentile Losses & ALAE Multiplier	1.343				
(6)	Forecasted Ultimate Losses & ALAE (80th Percentile Value)	1,770,074	3,306,466	3,392,418	3,533,433	3,626,100
(10)	(10) 90th Percentile Losses & ALAE Multiplier	1.672				
(11)	(11) Forecasted Ultimate Losses & ALAE (90th Percentile Value)	2,203,696	4,116,464	4,223,472	4,399,032	4,514,400
Notes: (1) 7 (1) 7 (1) 7 (2) 7 (3) 7 (3) 7 (4) 8 (5) 1 (5) 1 (6) 7 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 7 (1) 7 (1	 Notes: (1) from Exhibit A, Page 3, Row (9) (2) from Cyt of Chandler (3) from Appendix B, Page 1, Column (5), assuming 70% of losses limited to \$75,000 correspond to public safety employees, (limit adjusted for trend) (4) = (1) × (3) (5) = (2) × (4) (6) from Exhibit A, Page 2 (7) = (5) × (8) (8) from Exhibit A, Page 2 (9) = (5) × (8) (10) from Exhibit A, Page 2 (11) = (5) × (10) 	losses limited to \$75	5,000 correspond	to public safety		

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Forecast on 9/29/2021 at 6:13 PM

City of Chandler Workers' Compensation Percentile Factor Calculation for Losses & ALAE Forecast Based on Data as of June 30, 2021

Forecasted Ultimate Counts 142 50.0% Parameter Risk 0.200 50.0% <	Percentile Percentile Factor	e Percentile e Losses & ALAE or Forecast
0.200 0.530 0.498 0.248 (0.124) 2.700,000		
0.530 0.498 0.248 (0.124) 2.700.000	_	
0.530 0.498 0.248 (0.124) 2.700.000		
0.498 0.248 (0.124) 2.700,000	70.0% 1.147	7 3,096,900
0.248 (0.124) 2,700,000		
(0.124) 2,700,000		
2,700,000		
		1 7,589,700
(Central Estimate)		



based on a lognormal distribution

Note:

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%Forecast on 9/29/2021 at 6:13 PM

City of Chandler Workers' Compensation Losses & ALAE Forecast for period 7/1/21 to 6/30/22 - Limited to \$75,000 Based on Data as of June 30, 2021

(1)	(1) Selected Frequency for period 7/1/21 to 6/30/22	0.990
(2)	(2) Projected Exposures (\$1,000 Payroll)	142,931
(3)	Forecasted Ultimate Counts (Central Estimate)	142
(4)	Selected Loss Cost for period 7/1/21 to 6/30/22	9.20
(5)	Selected Severity for period 7/1/21 to 6/30/22	9,340
(e) (1)	Estimated Ultimate Losses & ALAE (Loss Cost) Estimated Ultimate Losses & ALAE (<i>Frequency/Severity</i>)	1,314,962 1,321,622
(8)	(8) Forecasted Ultimate Losses & ALAE (Central Estimate)	1,318,000
(6)	Forecasted Loss Rate (Central Estimate)	9.22

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Notes: (1) from Exhibit A, Page 5, Column (8) (2) from City of Chandler (3) = (1) / 1,000 × (2) (4) from Exhibit A, Page 4, Column (8) (5) from Exhibit A, Page 5, Column (12) (6) = (2) × (4) (7) = (1) / 1,000 × (2) × (5) (8) selected (9) = (8) / (2)

City of Chandler Workers' Compensation Losses & ALAE Forecast Loss Cost Method - Limited to \$75,000 Based on Data as of June 30, 2021

(8)	Trended Ultimate Loss Cost	14.01 10.61	8.00	7.82 6.52	7.93	5.84 10.82	8.25	10.31	8.72	12.17	7.76	7.93	9.14	8.45	7.84	8.09	11.62		9.04 8.88 8.68 8.68 9.03 9.18 9.20
(2)	Loss Cost Trend Factor	1.446 1.425	1.397	1.370 1.343	1.317	1.292 1.266	1.242	1.218	1.194	1.171	1.148	1.125	1.103	1.082	1.061	1.040	1.020		Arithmetic Average Weighted Average ge Excluding Current Period ge Excluding Current Period 5 Period Arithmetic Average 3 Period Arithmetic Average for period 7/1/21 to 6/30/22
(9)	Benefit Level Factor	1.269 1.252	1.237	1.208 1.193	1.159	1.107 1.064	1.049	1.041	1.033	1.015	1.007	0.996	1.005	1.005	1.001	1.000	1.000		Arithmetic Average Weighted Average Arithmetic Average Excluding Current Period Weighted Average Excluding Current Period 5 Period Arithmetic Average 3 Period Arithmetic Average 3 Period Arithmetic Average Selected Loss Cost for period 7/1/21 to 6/30/22
(5)	Exposure Trend	1.617 1.600	1.587	1.524 1.454	1.400	1.371 1.362	1.341	1.303	1.270	1.262	1.234	1.210	1.194	1.154	1.116	1.074	1.036		Arithmetic Weightec Selected Los:
(4)	Ultimate Loss Cost	12.34 9.51	7.35	7.20 5.91	7.27	5.60 10.93	8.49	10.60	8.98	12.94	8.29	8.55	9.84	8.97	8.24	8.35	11.81		
(3)	Exposures (\$1,000 Payroll)	38,782 82,686	84,675	90,201 102.877	111,710	120,668 119 800	113.843	110,414	119,088	115,348	119,528	127,517	128,452	133,497	135,570	136,800	140,084	2,131,539	Bulletin
(2)	Ultimate	478,631 786,281	621,971	649,576 608.000	812,000	675,237 1 310 000	966.822	1,170,000	1,069,226	1,493,000	990,329	1,090,362	1,264,190	1,198,000	1,117,000	1,142,000	1,654,000	19,096,625	e policy period) Annual Statistical E Cl
(1)	Age in Months	225 216	204	192 180	168	156 144	132	120	108	96	84	72	60	48	36	24	12		n period) - (averag s 3, Column (12) sr 20 edition of NCCI. 20 edition of NCCI.
	Policy Period	to 6/30/2003 to 6/30/2004	-	to 6/30/2006 to 6/30/2007	_	to 6/30/2009	to 0/30/2010		-				to 6/30/2017				to 6/30/2021	TOTALS	= (average evaluation period) - (average policy period) from Exhibit C, Page 3, Column (12) from City of Chandler = (2) / (3) = (4) x (5) x (7) / (5)
	Policy	1/1/2003 to 7/1/2003 to		7/1/2005 to 7/1/2006 to		7/1/2008 to											7/1/2020 t	ТОТ	Notes: (1) = (1) = (1) = (1) = (1) = (1) = (1) = (1) = (1) = (1) = (1) = (1) = (1) = (1) = (1) = (1) = (2

Oliver Wyman Actuarial Consulting, Inc.

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City of Chandler Workers: Compensation Losses & ALAE Forecast Frequency / Severity Method - Limited to \$75,000 Based on Data as of June 30, 2021

	(1)	(2)	(3)	(4)	(2)	(8)	(2)	(8)	(6)	(10)	(11)	(12)
Policy Period	Age in Months	Exposures (\$1,000 Payroll)	Exposure Trend	Ultimate Losses	Ultimate Counts	Ultimate Frequency (per \$1M)	Frequency Trend	Trended Ultimate Frequency (per \$1M)	Ultimate Severity	Benefit Levei Factor	Severity Trend Factor	Trended Ultimate Severity
1/1/2003 to 6/30/2003	225	38.782	1.617	478.631	ទ	1.005	0.910	0.914	7,597	1.269	1.589	15,320
	216	82,686	1.600	786.281	149	1.126	0.914	1.029	5,277	1.252	1.560	10,307
7/1/2004 to 6/30/2005	204		1.587	621,971	143	1.064	0.918	0.977	4,349	1.237	1.522	8,184
7/1/2005 to 6/30/2006	192		1.524	649,576	147	1.069	0.923	0.987	4,419	1.208	1.485	7,924
7/1/2006 to 6/30/2007	180		1.454	608,000	135	0.903	0.928	0.837	4,504	1.193	1.448	7,784
7/1/2007 to 6/30/2008	168		1.400	812,000	161	1.029	0.932	0.960	5,043	1.159	1.413	8,262
7/1/2008 to 6/30/2009	156		1.371	675,237	165	0.998	0.937	0.935	4,092	1.107	1.378	6,244
7/1/2009 to 6/30/2010	144		1.362	1,310,000	142	0.870	0.942	0.819	9,225	1.064	1.345	13,206
7/1/2010 to 6/30/2011	132		1.341	966,822	153	1.002	0.946	0.949	6,319	1.049	1.312	8,701
7/1/2011 to 6/30/2012	120		1.303	1,170,000	161	1.119	0.951	1.065	7,267	1.041	1.280	9,687
7/1/2012 to 6/30/2013	108		1.270	1,069,226	135	0.893	0.956	0.853	7,920	1.033	1.249	10,218
7/1/2013 to 6/30/2014	96		1.262	1,493,000	154	1.058	0.961	1.016	9,695	1.015	1.218	11,983
7/1/2014 to 6/30/2015	84		1.234	990,329	143	0.969	0.966	0.936	6,925	1.007	1.189	8,290
7/1/2015 to 6/30/2016	72		1.210	1,090,362	153	0.992	0.970	0.962	7,127	0,996	1.160	8,236
7/1/2016 to 6/30/2017	60		1.194	1,264,190	133	0.867	0.975	0.846	9,505	1.005	1.131	10,812
7/1/2017 to 6/30/2018	48		1.154	1,198,000	149	0.967	0.980	0.948	8,040	1.005	1.104	8,920
7/1/2018 to 6/30/2019	36		1.116	1,117,000	158	1.044	0.985	1.029	7,070	1.001	1.077	7,623
7/1/2019 to 6/30/2020	24		1.074	1,142,000	148	1.008	0.990	0.998	7,716	1.000	1.051	8,107
7/1/2020 to 6/30/2021	12		1.036	1,654,000	144	0.992	0.995	0.987	11,486	1.000	1.025	11,773
TOTALS		2,131,539		19,096,625	2,736							
Notes: (1) = (average evaluation period) - (average policy period)	ation period) - (av	erage policy period)	And the second			AA	Arithmetic Average Weighted Average	0.950 0.950		4 X	Arithmetic Average Weighted Average	9,557 9,339
(2) from City of Chandler(3) derived from the 2020	ndler 2020 edition of N	from City of Chandler derived from the 2020 edition of NCCI Annual Statistical Bulletin	3ulletin		Arithmet Weighte	Arithmetic Average Excluding Current Period Weighted Average Excluding Current Period	ig Current Period g Current Period	0.948 0.947	Anthmeth Weightec	Arithmetic Average Excluding Current Period Weighted Average Excluding Current Period	ing Current Period ing Current Period	9,203
(4) from Exhibit C, Pa	from Exhibit C, Page 3, Column (12)	2)				5 Period Ar 3 Period An	5 Period Arithmetic Average 3 Period Arithmetic Average	0.961 1.005		5 Period A 3 Period A	5 Period Arithmetic Average 3 Period Arithmetic Average	9,447 9,168
(כ) וומווו באווומו הי ב	ade /' community	-1)					

(3) derived from the 2020 edition of NCCI Annual Statistical Bulletin (3) derived from the 2020 edition of NCCI Annual Statistical Bulletin (4) from Exhibit O. Paga S. Column (12) (5) from Exhibit O. Paga S. Column (12) (5) $= (5) / (2) \times 1,000 / (3)$ (7) - 0.5% annual trend (8) = (6) / (7)(9) = (4) / (5)(10) Dased on information published by NCCI (11) Dased on information published by NCCI (12) $= (9) \times (10) \times (11)$

9,340

Selected Severity for period 7/1/21 to 6/30/22

0.990

Selected Frequency for period 7/1/21 to 6/30/22

FSforecast on 9/29/2021 at 6:13 PM

Oliver Wyman Actuarial Consulting, Inc.

City of Chandler Workers' Compensation Percentile Factor Calculation for Unpaid Losses & ALAE as of 6/30/21 Based on Data as of June 30, 2021

	Losses & ALAE CV	5.639	Percentile	Percentile Factor	Percentile Unpaid Losses & ALAE
	Open & IBNR Claim Count Darameter Rick	152 0 150	50.0%	0.898	9,391,967
			60.0%	1.010	10,563,349
	Unnaid I neses & AI AF CV	0.490	70.0%	1.145	11,975,281
		0.464	80.0%	1.327	13,878,776
	, E	0.215	80.0%	1.627	17,016,404
	3 =	(0.108)	95.0%	1.926	20,143,574
	1	()	%0.66	2.642	27,632,047
	Unpaid Losses & ALAE	10,458,761			
	(Central Estimate)				
	29'000'000				
	20,000,000 -				
bisq	15,000,000 -				 \
uŊ	10,000,000 -				

%Unpaid on 9/29/2021 at 6:13 PM

Oliver Wyman Actuarial Consulting, Inc.

based on a lognormal distribution

Note:

100%

%06

80%

20%

60%

50%

40%

30%

20%

10%

%0 0

5,000,000

Cumulative Probability Distribution

City of Chandler Workers' Compensation

Workers' Compensation Unpaid Losses & ALAE Reconciliation from 6/30/20 to 6/30/21 - Limited to Self-Insured Retention (SIR) Based on Data as of June 30, 2021

(1)	(1) Indicated Unpaid Losses & ALAE as of 6/30/20	8,795,715
(2)	(2) Estimated Ultimate Losses & ALAE for period 7/1/20 to 6/30/21	3,515,000
(3)	(3) Payments for period 7/1/20 to 6/30/21	1,868,615
(4)	(4) Change in Ultimate Losses & ALAE since 6/30/20	16,661
(5)	(5) Indicated Unpaid Losses & ALAE as of 6/30/21	10,458,761
Notes: (1) fr (2) fr (3) fr (4) fr (5) =	 (1) from Exhibit B, Page 3, Column (11) (2) from Exhibit B, Page 3, Column (20) (3) from Exhibit B, Page 3, Column (13) (4) from Exhibit B, Page 3, Column (19) (5) = (1) + (2) - (3) + (4) 	

Reconcile on 9/29/2021 at 6:13 PM

Oliver Wyman Actuarial Consulting, Inc.

> City of Chandler Workers' Compensation Comparison of Losses & ALAE to Previous Analysis - Limited to Self-Insured Retention (SIR)

1			T								-												
(12)		Estimated	ninuarez	1,086,500	834,000	651,732	1,048,000	625,000	995,000	1,320,000	1,800,000	1,515,000	2,370,000	2,275,000	2,750,000	2,082,223	3,750,000	2,050,000	2,550,000	2,010,000	2,350,000		32,062,455
(11)		Unpaid Losses	& ALAE	15,801	16,183	0	69,861	25,359	277,849	164,883	327,122	58,566	567,588	232,971	435,482	757,135	1,355,903	470,811	1,034,076	1,150,078	1,836,047		8,795,715
(10)	June 30, 2020	IBNR		558	743	•	4,010	5,832	19,252	23,007	46,294	37,705	52,424	63,015	114,765	0	207,559	256,798	238,850	471,978	1,393,608		2,936,397
(6)	Based on Data as of June 30, 2020	Incurred Losses	& ALAE	1,085,942	833,257	651,732	1,043,990	619,168	975,748	1,296,993	1,753,706	1,477,295	2,317,576	2,211,985	2,635,235	2,082,223	3,542,441	1,793,202	2,311,150	1,538,022	956,392		29,126,058
(8)	Base	Case	Keserves	15,243	15,440	-	65,851	19,527	258,598	141,876	280,827	20,862	515,165	169,956	320,717	757,135	1,148,344	214,013	795,226	678,100	442,438		5,859,317
E		Paid Losses	& ALAE	1,070,699	817,817	651,732	978,139	599,641	717,151	1,155,117	1,472,878	1,456,434	1,802,412	2,042,029	2,314,518	1,325,087	2,394,097	1,579,189	1,515,924	859,922	513,953		23,266,740
(9)		Estimated	Ultimates	1,086,000	833,500	651,732	1,025,100	620,000	1,101,000	1,303,000	1,776,000	1,456,561	2,428,000	2,372,000	2,727,000	2,082,223	3,636,000	2,307,000	2,934,000	1,753,000	1,987,000	3,515,000	35,594,116
(5)	-	Unpaid Losses	& ALAE	14,894	15,462	0	44,292	20,347	373,432	142,556	295,272	0	547,345	275,653	371,057	689,023	1,105,954	678,069	1,327,877	776,673	938,765	2,842,091	10,458,761
(4)	of June 30, 202	IBNR		58	243	0	78	832	1,069	5,330	23,171	0	33,815	39,599	76,526	0	98,088	155,957	215,785	198,991	637,915	928,626	2,416,084
(3)	Based on Data as of June 30, 202	Incurred Losses	& ALAE	1.085.942	833.257	651.732	1,025,022	619,168	1,099,931	1,297,670	1.752,829	1.456.561	2,394,185	2,332,401	2,650,474	2,082,223	3,537,912	2,151,043	2,718,215	1,554,009	1,349,085	2,586,374	33,178,032
(2)	Bas	Case	Reserves	14.836	15.218		44,214	19,515	372,363	137,225	272,100		513,530	236.053	294,531	689,023	1.007,866	522,112	1.112.092	577,682	300,850	1,913,465	8,042,577
E		Paid	& ALAE	1.071.106	818.038	651.732	980,808	599,653	727,568	1.160,444	1.480.728	1.456.561	1.880.655	2.096.347	2,355,943	1,393,200	2.530.046	1.628,931	1.606.123	976,327	1,048,235	672,909	25,135,355
	1	Self-Insured Retention	(SIR)	500.000	500 000	500.000	500.000	500,000	500.000	500,000	500.000	500.000	500,000	600,000	600.000	600,000	600k / 1M	600k / 1M	600k / 1M	600k / 1.25M	600k / 1.25M	750k / 2.25M	
		Policy Period	naux r faun i	1/2003 to 6/30/2003	1	\$ £	7/1/2005 to 6/30/2006	\$	5	8	5	£	8	\$	8	8	5	\$	4	1/2018 to 6/30/2019	\$	/1/2020 to 6/30/2021	TOTALS
				1				1	1	4	12	12		1	1	12	7		12	1	12	12	<u> </u>

	Notes:	(1) from City of Chandler (2) from City of Chandler	(3) from City of Chandler	(q) = (Q) - (3)	(5) = (6) - (1)	(6) from Exhibit C, Page 1, Column (7)	(7) to (12) from previous Oliver Wyman study	(73) = (7) - (7)	(14) = (2) - (8)	(15) = (3) - (9)	(16) = (4) - (10)	(17) = (5) - (11)	(18) = (6) - (12)	(19) = (6) - (12) at 6/30/20	(20) derived from (6)						
(20)	Estimated Ultimates from 7/1/20 to 6/30/21	0	0	•	0	0	0	0	0	0	0	0	0	0	0	•	0	0	0	3,515,000	3,515,000
(19)	Estimated Ultimates Through 5/30/20		(200)							_				_							16,561
(18)	Estimated Ultimates	(500)	(200)		(22,900)	(2,000)	106,000	(17,000)	(24,000)	(58,439)	58,000	97,000	(23,000)	6	(114,000)	257,000	384,000	(257,000)	(363,000)	3,515,000	3,531,661
(11)	Unpaid Losses & ALAE	(706)	(121)		(25,568)	(5,012)	95,583	(22,327)	(31,850)	(58,566)	(20,244)	42,682	(64,425)	(68,113)	(249,949)	207,259	293,801	(373,405)	(897,282)	2,842,091	1,663,046
(16) Difference	IBNR	(200)	(200)	` -	(3,932)	(2,000)	(18,183)	(17,677)	(23,123)	(37,705)	(18,609)	(23,415)	(38,239)	0	(109,471)	(100,841)	(23,064)	(272,987)	(755,694)	928,626	(520,314)
(15)	Incurred Losses & ALAE	c	0	0	(18,968)	0	124,183	677	(877)	(20,734)	76,609	120,415	15,239	0	(4,529)	357,841	407,064	15,987	392,694	2,586,374	4,051,975
(14)	Case Reserves	(407)	[2]] -	(21,637)	(12)	113,765	(4,650)	(8,727)	(20,862)	(1,634)	66,097	(26,186)	(68,113)	(140,478)	308,099	316,865	(100,417)	(141,588)	1,913,465	2,183,360
(13)	Paid Losses & ALAE	202	221	0	2,668	12	10,417	5,327	7,850	128	78,244	54,318	41,425	68,113	135,949	49,741	90,199	116,405	534,282	672,909	1,868,615
L	Self-Insured Retention (SIR)	200 000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	600,000	600,000	600,000	600k / 1M	600k / 1M	600k / 1M	600k / 1.25M	600k / 1.25M	750k / 2.25M	
	Policy Period		3 2	7/1/2004 to 6/30/2005	8	8	\$	7/1/2008 to 6/30/2009	5	\$	7/1/2011 to 6/30/2012	율	9	₽	7/1/2015 to 6/30/2016	₽	9	9	9	7/1/2020 to 6/30/2021	TOTALS

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City of Chandler Workers: Compensation Summary - Limited to Set-Insured Retention (SIR) Based on Data as of June 30, 2021

		r																				
(13)		Selected Ultimate	63	149	143	147	135	161	165	142	153	161	135	154	143	153	133	149	158	148	144	2,736
(12)		Open & IBNR	2	-	0	-	•	e	2	e		4	4	2	7	4	ŝ	ŝ	4	24	11	152
(11)	ex. CWOP)	IBNR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	۴	16	17
(10)	Claim Counts (ex. CWOP	Reported	63	149	143	147	135	161	165	142	153	161	135	154	143	153	133	149	158	147	128	2,719
(6)		Open	2	4	0	-	-	e	2	ო	-	4	4	ŝ	12	4	ŝ	5	14	23	55	135
(8)		Closed	61	148	143	146	134	158	163	139	152	157	131	149	141	149	128	144	144	124	73	2,584
(2)		Selected Ultimate	1 086 000	833,500	651,732	1,025,100	620,000	1,101,000	1,303,000	1,776,000	1,456,561	2,428,000	2,372,000	2,727,000	2,082,223	3,636,000	2,307,000	2,934,000	1,753,000	1,987,000	3,515,000	35,594,116
(9)		Unpaid	14 894	15.462	0	44,292	20,347	373,432	142,556	295,272	0	547,345	275,653	371,057	689,023	1,105,954	678,069	1,327,877	776,673	938,765	2,842,091	10,458,761
(2)	AE @ SIR	IBNR	87	243	0	78	832	1,069	5,330	23,171	0	33,815	39,599	76,526	o	98,088	155,957	215,785	198,991	637,915	928,626	2,416,084
(4)	Losses & ALAE @ SIR	Incurred	1 DR5 047	833 257	651.732	1.025.022	619.168	1,099,931	1,297,670	1 752.829	1,456,561	2,394,185	2,332,401	2.650.474	2,082,223	3,537,912	2,151,043	2,718,215	1.554.009	1.349,085	2,586,374	33,178,032
(3)		Case Reserves	14 826	15,000		44.214	19.515	372,363	137,225	272.100	0	513.530	236,053	294.531	689.023	1,007,866	522.112	1.112.092	577,682	300.850	1,913,465	8,042,677
(2)		Paid	4 074 406	818 038	651.732	980.808	599,653	727.568	1.160,444	1,480,728	1.456.561	1.880,655	2.096.347	2.355.943	1.393.200	2.530.046	1.628.931	1.606.123	976.327	1.048.235	672,909	25,135,355
(1)	L	Exposures (\$1,000 Payroll)	C01 00	20,102 82 686	84.675	90.201	102.877	111.710	120,668	119.800	113,843	110.414	119.088	115 348	119.528	127.517	128.452	133.497	135.570	136.800	140,084	2,131,539
		Self-Insured Retention (SIR)	000 002			200,000	500,000	500.000	500.000	500,000	500.000	500 000	600 000	800,000	600,000	600k / 1M	600k / 1M	600k / 1M	600k / 1.25M	600k / 1 25M	750k / 2.25M	
		Policy Period		2 1		2 5		2 £	; ₽	2 £	5 5	5 5	5 5	3 5	2 ₽		2 2		9 5	2 £	7/1/2020 to 6/30/2021	TOTALS
																			-			

					Notes:	(1) from City of Chandler					(6) = (3) + (5)		(8) from City of Chandler		(10) from City of Chandler	(11) = (13) - (10)	(12) = (9) + (11)	(13) from Exhibit D, Page 7, Column (12)	(14) = (2)/(8)	(15) = (3)/(9)	(16) = (4) / (10)	(17) = (6)/(12)		$(19) = (13) / (1) \times 1,000$	(20) = (7) / (1)		
(20)		Implied Ultimate	Loss Cost	per	Exposure		28.00	10.08	7.70	11.36	6.03	9.86	10.80	14.82	12.79	21.99	19.92	23.64	17.42	28.51	17.96	21.98	12.93	14.52	25.09	16.70	
(13)		Ultimate	Frequency	(per \$1M)			1.624	1.802	1.689	1.630	1.312	1.441	1.367	1.185	1.344	1.458	1.134	1,335	1.196	1.200	1.035	1.116	1.165	1.082	1.028	1.284	
(18)		Ultimate	per	Ultimate			17,238	5,594	4,558	6,973	4,593	6,839	7,897	12,507	9,520	15,081	17,570	17,708	14,561	23,765	17,346	19,691	11,095	13,426	24,410	13 010	
(17)	im Counts)	Unpaid	per	open	& IBNR		7,447	15,462		44,292	20,347	124,477	71,278	98,424	0	136,836	68,913	74,211	344,511	276,488	135,614	265,575	55,477	39,115	40,029	 58 808	
(16)	Losses & ALAE @ SIR) / (Claim Counts)	Incurred	Der	Renorted			17,237	5,592	4,558	6,973	4,586	6,832	7,865	12,344	9,520	14,871	17,277	17,211	14,561	23,124	16,173	18,243	9,835	9,177	20,206	13 202	141474
(15)	(Losses & ALA	Case	Reserves	per	Open		7,418	15,218		44,214	19,515	124,121	68,613	90,700	0	128,383	59,013	58,906	344,511	251,966	104,422	222,418	41,263	13,080	34,790	E0 E7E	0 10 00
(14)		Paid	Der .	Closed	2000		17.559	5,527	4,558	6,718	4,475	4,605	7,119	10,653	9,583	11,979	16,003	15,812	9,881	16,980	12,726	11,154	6.780	8,454	9,218	107.0	1716
1		Solf-Incurad	Retention	(SID)	(1110)		500.000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	600,000	600,000	600,000	600k / 1M	600k / 1M	600k / 1M	600k / 1.25M	600k / 1.25M	750k / 2.25M		-
			Dolicy Beriod				1/1/2003 to 6/30/2003	5	9	9	9	7/1/2007 to 6/30/2008	9	9	7/1/2010 to 6/30/2011	7/1/2011 to 6/30/2012	\$		7/1/2014 to 6/30/2015	9	ф 2	\$	1	12	2	0	IDIALS

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> City of Chandler Workers' Compensation Selected Ultimate Losses & ALAE - Limited to Self-Insured Retention (SIR) Based on Data as of June 30, 2021

(11) Expected IBNR 1,627,780 (10) Excess Incurred 607,311 46,975 46,975 46,975 446 71,852 71,852 71,852 439,739 1,259,472 1,259,472 1,259,472 1,259,472 1,563,175 1,563,4751,565,475 1,565,4751,565,475 1,565,4751,565,475 1,565,475,4751,565,475 1,565,475,4751,565,475,475,47 14,610,632 Expected IBNR 6 2,221,097 Incurred LDFs 1 (7) Limited to SIR ILFs to SIR 1.579 1.582 1.586 1.586 1.590 1.596 1.596 1.596 1.594 1.610 1.610 1.610 1.610 1.610 1.616 1.683 1.683 1.683 1.683 1.683 1.683 1.683 1.683 1.683 1.683 1.683 1.683 1.683 1.683 1.683 1.683 1.644 2.043 2.043 2.043 1,085,942 883,725 883,725 883,725 1,025,022 1,025,022 1,025,022 1,025,022 1,055,022 1,055,022 1,555,022 1,755,670 1,755,670 1,755,670 1,755,012 2,356,701 1,556,005 1,545,006 1,556,006 1, 9 33,178,032 Incurred 593,317 Expected IBNR 6 Incurred LDFs (3) (4) imited to \$75,000 19,096,625 Ultimate 478,631 786,281 786,281 649,576 649,576 647,316 811,227 1,306,417 1,306,423 1,164,313 1,164,313 1,164,313 1,164,313 1,100,362 1,100,193 1,140,264 1,000,193 1,140,264 1,344,419 1,244,4191,244,419 1,244,4191,244,419 1,244,4191,244,419 1,244,419 2 Incurred 18,567,401 Age in Months Ξ 500,000 500,000 500,000 500,000 500,000 500,000 500,000 500,000 600,000 600,000 600,000 600,100 600,100 600,100 600,100 600,100 600,1125M 600,1125M Self-Insured Retention (SIR) 6/30/2003 6/30/2003 6/30/2006 6/30/2006 6/30/2006 6/30/2009 6/30/2013 6/30/2013 6/30/2013 6/30/2013 6/30/2013 6/30/2013 6/30/2013 6/30/2013 6/30/2013 6/30/2013 6/30/2013 6/30/2013 6/30/2013 6/30/2013 6/30/2013 6/30/2013 TOTALS Policy Period *************** 1/1/2003 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2016 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2016 7/1/2018 7/1/2018 7/1/2018

					Notes:	(1) = (average evaluation period) - (average policy period)		(3) from Exhibit C, Page 3, Column (12)		$(5) = (3) \times [7 - 1/(4)]$			(limit adjusted for trend for prior years)	(8) from Appendix A, Page 1	$(3) = (3) \times (7) \times [7 - 7/(8)]$	(10) = (6) - (2)	(11) = (9) - (5)	$(12) = (3) \times (7)$			(15) from previous Oliver Wyman study	(16) selected				
(16)			Selected	Ultimate			1,086,000	833,500	651,732	1,025,100	620,000	1,101,000	1,303,000	1,776,000	1,456,561	2,428,000	2,372,000	2,727,000	2,082,223	3,636,000	2,307,000	2,934,000	1,753,000	1,987,000	3,515,000	 35,594,116
(15)			Prior	Ultimate			1,086,500	834,000	651,732	1,048,000	625,000	995,000	1,320,000	1,800,000	1,515,000	2,370,000	2,275,000	2,750,000	2,082,223	3,750,000	2,050,000	2,550,000	2,010,000	2,350,000	2,555,000	34,617,455
(14)	Limited to SIR	e		Excess	Method		1,085,942	833,257	651,732	1,025,022	619,852	1,100,704	1,303,076	1,776,383	1,475,936	2,428,221	2,372,056	2,727,070	2,132,962	3,636,205	2,307,451	2,933,730	1,753,465	1,611,850	3,560,121	35,335,036
(13)	1	Indicated Ultimate		Ъ	Method		1,085,942	833,257	651,732	1,025,022	619,168	1,099,931	1,305,022	1,771,029	1,477,705	2,436,738	2,392,214	2,732,831	2,156,308	3,743,510	2,327,375	2,974,418	1,712,029	1,498,153	3,790,811	35,633,195
(12)		ŭ		5	Method		755,797	1,244,163	986,617	1,032,610	968,559	1,295,892	1,079,398	2,100,641	1,556,379	1,890,710	1,799,197	2,520,993	1.677,771	1,987,099	2,312,476	2,199,470	2,118,815	2,174,352	3,379,750	33,080,688
	L		Self-Insured	Retention	(SIR)		500.000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	600,000	600,000	600,000	600k / 1M	600k / 1M	600k / 1M	600k / 1.25M	600k / 1.25M	750k / 2.25M	
			Policy Period	•			1/1/2003 to 6/30/2003	9	9	\$	9	\$	9	9	9	\$	9	7/1/2013 to 6/30/2014	9	\$	₽	7/1/2017 to 6/30/2018	7/1/2018 to 6/30/2019	\$	t	TOTALS

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City of Chandler Workers' Compensation Selected Ultimate Losses & ALAE - Limited to \$75,000 Based on Data as of June 30, 2021

	(1)	(2)	(2)	(4)	(2)	(e)	E	(8)	(6)	(10)	(11)	(12)
	Exposures	Open			Paid	Incurred	Loss Cost	Frequency /	Paid Bornhuetter-	Incurred Bornhuetter-	Prior	Selected
Policy Period	(\$1,000 Payroll)	& IBNR Claim Count	Paid	Incurred	Development Method	Development Method	Method	Severity Method	Ferguson Method	Ferguson Method	Ultimate	Ultimate
1/1/2003 to 6/30/2013	38 782	~	478.631	478.631	484.086	478.631			484,024	478,631	478,631	478,631
3 5	82,686	ı .	775.091	786.281	784,998	786,281			785,014	786,281	786,281	786,281
9 5	84.675	. 0	621.971	621.971	631,180	621,971			631,046	621,971	621,971	621,971
2 <u></u> 2	90.201	*	649,576	649,576	660,512	649,576			660,331	649,576	649,576	649,576
2	102.877	· •	587,801	607,316	598,893	607,316			599,049	607,316	608,000	608,000
9	111.710	с	695,966	811,227	710,704	811,227			712,789	811,227	740,000	812,000
9	120.668	0	675,237	675,237	691,246	675,912			690,875	675,911	674,560	675,237
9	119,800	e	1,299,626	1,305,417	1,334,429	1,308,029			1,334,085	1,308,056	1,310,000	1,310,000
2	113,843	~	966,822	966,822	967,676	969,725			996,722	969,716	966,822	966,822
9	110,414	4	1,160,847	1,164,313	1,203,883	1,168,977			1,203,259	1,169,047	1,172,000	1,170,000
\$	119,088	4	1,069,226	1,069,226	1,117,736	1,074,583			1,115,631	1,074,556	1,069,226	1,069,226
9	115,348	ۍ	1,482,601	1,483,450	1,562,264	1,492,373			1,560,482	1,492,582	1,479,586	1,493,000
9	119.528	~	990,329	990,329	1,053,978	997,282			1,050,134	997,234	990,329	990,329
9	127.517	4	1,040,344	1,090,362	1,121,359	1,101,311			1,119,119	1,101,203	1,090,362	1,090,362
₽	128,452	ъ	1,264,190	1,264,190	1,383,075	1,283,269			1,372,856	1,282,986	1,264,190	1,264,190
9	133,497	£	1,098,692	1,148,254	1,220,043	1,171,411	1,255,498	1,170,170	1,223,570	1,173,074	1,230,000	1,198,000
5	135,570	14	947,621	1,080,187	1,073,333	1,112,992	1,261,703	1,276,632	1,095,395	1,117,375	1,185,000	1,117,000
\$	136,800	24	927,549	1,040,193	1,166,164	1,093,219	1,250,718	1,227,296	1,183,465	1,100,858	1,230,000	1,142,000
9	140,084	71	589,321	1,334,418	1,370,712	1,788,114	1,260,755	1,224,000	1,308,029	1,654,308	1,296,000	1,654,000
											-	
TOTALS	2,131,539	152	17,321,440	18,567,401	19,166,270	19,192,202			19,125,875	19,071,908	18,842,534	19,096,625

Notes: (1) from City of Chandler (2) = Exhibit D, Page 7, Column (12) - closed claim counts with payment (3) from City of Chandler (4) from Exhibit D, Page 1, Column (4) (5) from Exhibit D, Page 2, Column (4)

(7) from Exhibit D, Page 3, Column (10)
(8) from Exhibit D, Page 4, Column (8)
(10) from Exhibit D, Page 5, Column (7)
(10) from Exhibit D, Page 6, Column (7)
(11) from previous Oliver Wyman study
(12) selected

Oliver Wyman Actuarial Consulting, Inc.

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City of Chandler Workers' Compensation Paid Losses & ALAE Development Method - Limited to \$75,000 Based on Data as of June 30, 2021

	(1)	(2)	(3)	(4)
Policy Period	Age in Months	Paid	Cumulative Development Factors	Ultimate
1/1/2003 to 6/30/2003	225	478,631	1.011	484,086
7/1/2003 to 6/30/2004	216	775,091	1.013	784,998
7/1/2004 to 6/30/2005	204	621,971	1.015	631,180
7/1/2005 to 6/30/2006	192	649,576	1.017	660,512
7/1/2006 to 6/30/2007	180	587,801	1.019	598,893
\$	168	695,966	1.021	710,704
7/1/2008 to 6/30/2009	156	675,237	1.024	691,246
7/1/2009 to 6/30/2010	144	1,299,626	1.027	1,334,429
7/1/2010 to 6/30/2011	132	966,822	1.032	997,676
7/1/2011 to 6/30/2012	120	1,160,847	1.037	1,203,883
7/1/2012 to 6/30/2013	108	1,069,226	1.045	1,117,736
7/1/2013 to 6/30/2014	96	1,482,601	1.054	1,562,264
7/1/2014 to 6/30/2015	84	990,329	1.064	1,053,978
7/1/2015 to 6/30/2016	72	1,040,344	1.078	1,121,359
7/1/2016 to 6/30/2017	60	1,264,190	1.094	1,383,075
7/1/2017 to 6/30/2018	48	1,098,692	1.110	1,220,043
7/1/2018 to 6/30/2019	36	947,621	1.133	1,073,333
7/1/2019 to 6/30/2020	24	927,549	1.257	1,166,164
7/1/2020 to 6/30/2021	12	589,321	2.326	1,370,712
TOTALS		17,321,440		19,166,270

Notes:

(1) = (average evaluation period) - (average policy period)
(2) from City of Chandler
(3) from Appendix A, Page 1
(4) = (2) x (3)

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Oliver Wyman Actuarial Consulting, Inc.

City of Chandler Workers' Compensation Incurred Losses & ALAE Development Method - Limited to \$75,000 Based on Data as of June 30, 2021

г	r				. <u>.</u>															1	
(4)	Ultimate	478,631	786,281	621,971	649,576	607,316	811,227	675,912	1,308,029	969,725	1,168,977	1,074,583	1,492,373	997,282	1,101,311	1,283,269	1,171,411	1,112,992	1,093,219	1,788,114	19,192,202
(3)	Cumulative Development Factors	1.000	1.000	1.000	1.000	1.000	1.000	1.001	1.002	1.003	1.004	1.005	1.006	1.007	1.010	1.015	1.020	1.030	1.051	1.340	
(2)	Incurred	478,631	786,281	621,971	649,576	607,316	811,227	675,237	1,305,417	966,822	1,164,313	1,069,226	1,483,450	990,329	1,090,362	1,264,190	1,148,254	1,080,187	1,040,193	1,334,418	18,567,401
(1)	Age in Months	225	216	204	192	180	168	156	144	132	120	108	96	84	72	60	48	36	24	12	
	Policy Period	1/1/2003 to 6/30/2003	<u>t</u>	ç	<u>ç</u>	\$	<u>ç</u>	9	7/1/2009 to 6/30/2010	7/1/2010 to 6/30/2011	7/1/2011 to 6/30/2012	7/1/2012 to 6/30/2013	7/1/2013 to 6/30/2014	7/1/2014 to 6/30/2015	7/1/2015 to 6/30/2016	7/1/2016 to 6/30/2017	7/1/2017 to 6/30/2018	7/1/2018 to 6/30/2019	7/1/2019 to 6/30/2020	7/1/2020 to 6/30/2021	TOTALS

(1) = (average evaluation period) - (average policy period)
(2) from City of Chandler
(3) from Appendix A, Page 1
(4) = (2) x (3)

Notes:

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Page 3 Exhibit D

Ultimate (10)

(9) Adjusted Selected Loss Cost

Workers' Compensation Losses & ALAE Cost Method - Limited to \$75,000 Based on Data as of June 30, 2021 City of Chandler

(8)	Preliminary Trended Ult Loss Cost	14.23	10.78	8.12	7.95	6.61	8.05	5.93	11.09	8.39	10.62	8.86	12.65	7.88	8.05	9.29	8.57	7.94	8.13	10.07
E	Loss Cost Trend Factor	1.418	1.397	1.370	1.343	1.317	1.292	1.266	1.242	1.218	1.194	1.171	1.148	1.125	1.103	1.082	1.061	1.040	1.020	1.000
(9)	Preliminary Ultimate Loss Cost	10.04	7.71	5.93	5.91	5.02	6.23	4.68	8.93	6.89	8.90	7.57	11.02	7.00	7.30	8.58	8.08	7.63	7.97	10.07
(5)	Benefit Level Factor	1.269	1.252	1.237	1.208	1.193	1.159	1.107	1.064	1.049	1.041	1.033	1.015	1.007	0.996	1.005	1.005	1.001	1.000	1.000
(4)	Exposure Trend	1.561	1.544	1.532	1.471	1.403	1.351	1.323	1.315	1.294	1.257	1.225	1.218	1.191	1.168	1.153	1.114	1.077	1.036	1.000
(3)	Exposures (\$1,000 Payroll)	38,782	82,686	84,675	90,201	102,877	111,710	120,668	119,800	113,843	110,414	119,088	115,348	119,528	127,517	128.452	133.497	135,570	136,800	140,084
(2)	Preliminary Ultimate	478,631	786,281	621,971	649,576	607,316	811.227	675.237	1.321.229	966,822	1.186.430	1.069.226	1.527.319	990,329	1.090,362	1.264.190	1 195 727	1 112 992	1 1 29 691	1,410,613
(1)	Age in Months	225	216	204	192	180	168	156	144	132	120	101	96	84	72	60	48	36	24	12
	Policy Period	1/1/2003 to 6/30/2003		2 ₽	2	2 2	2 £	; ¢	2 €	2.2	2 ₽	3 5	3 5	9.⊊	5 5	\$ \$	3 5	2.5	3 5	2 2

1,255,498 1,261,703 1,250,718 1,260,755

2,131,539

18,895,170

TOTALS

7.80 8.14 8.16 8.15 8.16 8.16 8.12 9.12 9.12 9.46 9.46 9.46 9.46 9.47 9.340 9.340

С	urre Perio				3.60	8 76	00	00 0	3.00	
Arithmetic average		5 Penod Antimetic average	s renoa Ammeric average		FIOT FORECASI	Emericanty Conserts	Lieduency a severity		Selected for period 1/1/20 to 5/30/21	
Notes:	 = (average evaluation period) - (average policy period) 	(2) based on Exhibit D, Page 1 and 2, Column (4) and actuarial judgment	(3) from City of Chandler	(4) derived from the 2020 edition of NCCI Annual Statistical Bulletin	(5) based on information published by NCCI	$(6) = (2) \times (5) / (3) / (4)$	(7) 2.0% annual trend	$(8) = (6) \times (7)$	(9) = (Selected for period 7/1/20 to 6/30/21) x (4) / (5) / (7)	$(10) = (3) \times (9)$

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Oliver Wyman Actuarial Consulting, Inc.

City of Chandler Workers' Compensation Frequency / Severity Method for Losses & ALAE - Limited to \$75,000 Based on Data as of June 30, 2021

	(1)	(2)	(3)	(4)	(5)	(9)	(2)	(8)
Policy Period	Preliminary Ultimate	Selected Ultimate Counts	Benefit Level Factor	Preliminary Ultimate Severity	Severity Trend Factor	Preliminary Trended Ultimate Severity	Adjusted Selected Severity	Ultimate
1/1/2003 to 6/30/2003 7/1/2003 to 6/30/2005 7/1/2004 to 6/30/2005 7/1/2005 to 6/30/2006 7/1/2005 to 6/30/2009 7/1/2005 to 6/30/2010 7/1/2006 to 6/30/2010 7/1/2009 to 6/30/2010 7/1/2010 to 6/30/2011 7/1/2011 to 6/30/2013 7/1/2013 to 6/30/2013 7/1/2015 to 6/30/2016 7/1/2016 to 6/30/2016 7/1/2017 to 6/30/2013 7/1/2018 to 6/30/2013 7/1/2019 to 6/30/2013 7/1/2016 to 6/30/2013 7/1/2019 to 6/30/2013 7/1/2010 to 6/30/2013 7/1/2013 to 6/30/2013 7/1/2014 to 6/30/2013 7/1/2015 to 6/30/2013 7/1/2013 to 6/30/2013 7/1/2014 to 6/30/2020 7/1/2013 to 6/30/20201	478,631 786,281 621,971 649,576 607,316 811,227 675,237 1,321,229 966,832 1,321,229 966,832 1,186,430 1,069,226 1,527,319 990,329 1,090,362 1,112,992 1,129,691 1,112,992 1,129,691 1,410,613 18,895,170	2, 25, 25, 25, 25, 25, 25, 25, 25, 25, 2	1.269 1.252 1.252 1.208 1.107 1.064 1.015 1.007 1.007 1.007 1.005 1.005 1.005 1.005 1.005 1.000 1.000	9,643 6,609 5,379 5,338 5,338 6,531 4,530 8,182 8,182 8,182 7,102 8,182 8,182 8,182 7,065 8,065 7,102 8,065 8,065 7,065 8,733 9,796	1.550 1.550 1.485 1.485 1.448 1.379 1.379 1.379 1.379 1.379 1.379 1.379 1.379 1.379 1.379 1.379 1.379 1.379 1.379 1.379 1.379 1.376	14,946 10,056 7,731 7,731 7,731 7,733 8,053 8,053 8,087 8,087 8,087 8,087 8,035 11,960 8,035 8,035 11,960 8,035 8,035 12,994 8,035 9,583 9,583 9,786 9	4,321 4,630 4,630 5,041 5,749 6,086 6,086 6,086 6,536 7,279 6,536 7,279 8,538 8,538 8,283 8,283	1,170,170 1,276,632 1,227,296 1,224,000
Notes: (1) based on Exhibit D, Pa, (2) from Exhibit D, Pa, (2) based on informati (3) based on informati (4) = (1) / (2) x (3) (5) 2.5% annual trend (6) = (4) x (5) (7) = (Selected for per (8) = (2) x (7)), Pag ge 7, on pt iod 7	(4) al (3) x		Arithmetic Avg Arithmetic Avg 5 Period Arithmetic Avg 3 Period Arithmetic Avg Prior Forecast Prior Forecast Selected for period 7/1/20 to 6/30/21	Arithmetic Avg Weighted Avg 5 Period Arithmetic Avg 3 Period Arithmetic Avg Prior Forecast Prior Forecast	9,224 9,001 8,501 7,973 8,700 8,700	Excluding Current Period	

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Oliver Wyman Actuarial Consulting, Inc.

Page 5 Exhibit D

Workers' Compensation Paid Losses & ALAE Bornhuetter-Ferguson Method - Limited to \$75,000 Based on Data as of June 30, 2021 **City of Chandler**

1.013 776,359 1.015 612,896 1.017 638,820 1.019 596,069 1.021 794,404
9 N O T
0.0.1 0.17 0.19 0.19 0.10 0.10 0.021
649,576 649,576 587,801 695,966
649,576 607,316 811.227
192 180 168

Notes:

(1) = (average evaluation period) - (average policy period)
(2) based on Exhibit D, Page 1 and 2, Column (4) and actuarial judgment; most recent 4 periods from Exhibit D, Page 3, Column (10)
(3) from City of Chandler
(4) from Appendix A, Page 1
(5) = (2) x [1 / (4)]
(6) = (2) x [1 - 1/ (4)]
(7) = (3) + (6)

Oliver Wyman Actuarial Consulting, Inc.

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Workers' Compensation Incurred Losses & ALAE Bornhuetter-Ferguson Method - Limited to \$75,000 Based on Data as of June 30, 2021 City of Chandler

	(1)	(2)	(3)	(4)	(2)	(9)	(1)
Policy Period	Age in Months	Preliminary Ultimate	Actual Incurred	Cumulative Development Factors	Expected Incurred	Expected IBNR	Ultimate
1112003 +0 613012003	77 5	A78 631	478 631	1 000	478.631	0	478.631
3 5	216	786 281	786.281	1.000	786,281	0	786,281
3 5	204	621.971	621,971	1.000	621,971	0	621,971
2 2	192	649,576	649,576	1.000	649,576	0	649,576
	180	607,316	607,316	1.000	607,316	0	607,316
9	168	811,227	811,227	1.000	811,227	0	811,227
9	156	675,237	675,237	1.001	674,562	675	675,911
<u>ç</u>	144	1,321,229	1,305,417	1.002	1,318,591	2,639	1,308,056
2	132	966,822	966,822	1.003	963,927	2,895	969,716
<u></u>	120	1,186,430	1,164,313	1.004	1,181,696	4,734	1,169,047
2	108	1,069,226	1,069,226	1.005	1,063,896	5,330	1,074,556
2	96	1,527,319	1,483,450	1.006	1,518,187	9,132	1,492,582
9	84	990,329	990,329	1.007	983,425	6,905	997,234
9	72	1,090,362	1,090,362	1.010	1,079,521	10,841	1,101,203
þ	60	1,264,190	1,264,190	1.015	1,245,394	18,796	1,282,986
þ	48	1,255,498	1,148,254	1.020	1,230,678	24,820	1,173,074
þ	36	1,261,703	1,080,187	1.030	1,224,515	37,188	1,117,375
þ	24	1.250,718	1,040,193	1.051	1,190,053	60,665	1,100,858
\$	12	1,260,755	1,334,418	1.340	940,865	319,890	1,654,308
TOTALS		19,074,820	18,567,401		18,570,312	504,508	19,071,908

Notes:

(1) = (average evaluation period) - (average policy period)
(2) based on Exhibit D, Page 1 and 2, Column (4) and actuarial judgment; most recent 4 periods from Exhibit D, Page 3, Column (10)
(3) from City of Chandler
(4) from Appendix A, Page 1
(5) = (2) × [1 / 1 / (4)]
(6) = (2) × [1 / -1 / (4)]
(7) = (3) + (6)

Oliver Wyman Actuarial Consulting, Inc.

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Page 7 Exhibit D

City of Chandler Workers' Compensation Selected Ultimate Claim Counts - Excluding Closed Without Payments Based on Data as of June 30, 2021

	(1)	(2)	(3)	(4)	(5)	(9)	(2)	(8)	(6)	(10)	(11)	(12)	(13)
Policy Period	Age in Months	Exposures (\$1,000 Payroll)	Exposure Trend	Reported Counts	Cumulative Development Factors	Estimated Ultimate Counts	Preliminary Frequency (per \$1M)	Frequency Trend	Preliminary Trended Frequency (per \$1M)	Estimated Ultimate Counts	Prior Ultimate Counts	Selected Ultimate Counts	Selected Frequency (per \$1M)
1/1/2003 to 6/30/2003	225	38.782	1.561	8	1.000	83	1.041	0.915	0.952	63	63	63	1.624
9	216	82.686	1.544	149	1.000	149	1.167	0.918	1.072	149	149	149	1.802
9 9	204	84.675	1.532	143	1.000	143	1.103	0.923	1.018	143	143	143	1.689
9	192	90,201	1,471	147	1.000	147	1.108	0.928	1.028	147	147	147	1.630
9	180	102,877	1.403	135	1.000	135	0.935	0,932	0.872	135	135	135	1.312
₽	168	111,710	1.351	161	1.000	161	1.067	0.937	0.999	161	161	161	1.441
2	156	120,668	1.323	165	1.000	165	1.034	0.942	0.973	165	165	165	1.367
9	144	119,800	1.315	142	1.000	142	0.902	0.946	0.853	142	142	142	1.185
₽	132	113,843	1.294	153	1.000	153	1.039	0.951	0.988	153	153	153	1.344
9	120	110.414	1,257	161	1.000	161	1.160	0.956	1.109	161	161	161	1.458
1 1	108	119,088	1.225	135	1.000	135	0.925	0.961	0.889	135	135	135	1.134
₽	96	115,348	1.218	154	1.000	154	1.096	0.966	1.058	154	154	154	1.335
9 P	84	119,528	1.191	143	1.000	143	1.004	0.970	0.975	143	143	143	1.196
9	72	127.517	1.168	153	1.000	153	1.028	0.975	1.002	153	153	153	1.200
ţ	60	128,452	1.153	133	1.000	133	0.898	0.980	0.880	133	133	133	1.035
2	48	133.497	1.114	149	1.000	149	1.002	0.985	0.987	149	151	149	1.116
9	36	135,570	1.077	158	1.002	158	1.084	0.990	1.073	158	161	158	1.165
ç	24	136,800	1.036	147	1.005	148	1.042	0.995	1.037	148	135	148	1.082
요	12	140,084	1.000	128	1.095	140	1.001	1.000	1.001	141	150	144	1.028
TOTALS		2,131,539		2,719		2,732				2,733	2,734	2,736	
Notes: Notes: (1) = (average evaluation period) - (average policy period) (2) from City of Chandler (3) Africona annual trend from 2020 edition of NCCI Annual Statistical Bulletin	ion period) - (ave ller nd from 2020 edit	rage policy peri ion of NCCl An	od) nual Statistical Bu	ulletin			5 Perioc 3 Perioc	Arithmetic Avg Weighted Avg 5 Period Arithmetic Avg 3 Period Arithmetic Avg	0.987 0.987 0.996 1.032	Excluding Current Period			

(1) = (average evaluation period) - (average policy period)
(2) from City of Chandler
(3) Arizona annual trend from 2020 edition of NCCI Annual Statistical Bulletin
(4) from Appendix A, Page 1
(5) from Appendix A, Page 1
(6) = (4) × (5)
(7) = (4) (2) × (1000 / (3)
(9) = (7) × (0)
(9) = (7) × (0)
(1) from pevious Oliver Wyman study
(12) selected
(12) / (2) × 1,000

1.070 1.030

Prior Forecast

Selected for period 7/1/20 to 6/30/21

Ult# on 9/29/2021 at 6:13 PM

Oliver Wyman Actuarial Consulting, Inc.

City of Chandler

Workers' Compensation Actual vs. Expected Paid Losses & ALAE between 7/1/20 and 6/30/21 - Limited to Self-Insured Retention (SIR) Based on Data as of June 30, 2021

Policy Period Ultimate Paid Unpaid 7/1/2003 to 6/30/2003 0.6/30/200 @ 6/30/200 @ 6/30/200 7/1/2003 to 6/30/2003 1,070,699 15,801 0.6/30/20 7/1/2003 to 6/30/2005 1,086,500 1,070,699 15,801 16,183 7/1/2003 to 6/30/2006 1,048,000 817,817 16,183 0 7/1/2005 to 6/30/2005 1,048,000 978,139 651,732 0.9861 7/1/2005 to 6/30/2006 1,048,000 978,139 69,861 25,359 7/1/2005 to 6/30/2003 1,3220,000 1,472,878 327,122 7/1/2004 to 6/30/2013 1,320,000 1,472,878 327,122 7/1/2014 to 6/30/2013 1,555,117 164,883 17355,903 7/1/2014 to 6/30/2013 2,550,000 1,472,878 327,122 7/1/2014 to 6/30/2013 2,550,000 1,472,878 327,122 7/1/2014 to 6/30/2013 2,550,0000 1,472,878 357,122 </th <th>Expected Period</th> <th>Expected</th> <th>Actual</th> <th></th>	Expected Period	Expected	Actual	
to $6/30/2003$ 1,086,500 1,070,699 to $6/30/2004$ 834,000 817,817 to $6/30/2006$ 651,732 651,732 to $6/30/2006$ 1,048,000 978,139 to $6/30/2008$ 1,048,000 599,641 to $6/30/2008$ 1,048,000 717,151 to $6/30/2010$ 1,320,000 1,155,117 to $6/30/2011$ 1,515,000 1,472,878 to $6/30/2013$ 2,370,000 1,472,878 to $6/30/2013$ 2,370,000 1,472,878 to $6/30/2014$ 2,082,223 1,556,000 2,0442 to $6/30/2016$ 3,750,000 2,314,518 to $6/30/2016$ 2,050,000 2,344,518 to $6/30/2016$ 2,756,000 2,042,029 to $6/30/2016$ 2,050,000 1,579,189 to $6/30/2016$ 2,550,000 1,579,189 to $6/30/2019$ 2,550,000 1,579,189 to $6/30/2019$ 2,350,000 1,513,953 to $6/30/2019$ 2,350,000 1,513,953 1	Paid %	Paid	Period Paid	Difference
to $6/30/2004$ 834,000 817,817 to $6/30/2005$ 651,732 651,732 651,732 to $6/30/2006$ 1,048,000 978,139 to $6/30/2008$ 1,048,000 599,641 to $6/30/2008$ 1,151 to $6/30/2010$ 1,155,117 to $6/30/2011$ 1,515,000 1,155,117 to $6/30/2011$ 1,515,000 1,472,878 to $6/30/2011$ 1,515,000 1,472,878 to $6/30/2011$ 2,370,000 1,472,878 to $6/30/2013$ 2,750,000 2,042,029 to $6/30/2016$ 2,750,000 2,314,518 to $6/30/2016$ 3,750,000 2,344,618 to $6/30/2016$ 2,550,000 2,344,518 to $6/30/2016$ 2,550,000 1,579,189 to $6/30/2018$ 2,550,000 1,579,189 to $6/30/2019$ 2,350,000 1,513,953 to $6/30/2019$ 2,350,000 1,513,953 to $6/30/2019$ 2,350,000 1,513,953 to $6/30/2019$ 2,350,000 1,513,953	44.4%	7,023	407	(6,616)
to $6/30/2005$ $651,732$ $651,732$ $651,732$ to $6/30/2006$ $1,048,000$ $978,139$ to $6/30/2008$ $1,048,000$ $599,641$ to $6/30/2008$ $1,151$ $1,151$ to $6/30/2010$ $1,320,000$ $1,155,117$ to $6/30/2011$ $1,515,000$ $1,472,878$ to $6/30/2011$ $1,515,000$ $1,472,878$ to $6/30/2011$ $1,515,000$ $1,472,878$ to $6/30/2011$ $2,370,000$ $1,472,878$ to $6/30/2013$ $2,750,000$ $1,472,878$ to $6/30/2013$ $2,750,000$ $1,579,189$ to $6/30/2016$ $3,750,000$ $2,334,618$ to $6/30/2016$ $2,550,000$ $1,579,189$ to $6/30/2018$ $2,550,000$ $1,579,189$ to $6/30/2019$ $2,350,000$ $1,579,189$ to $6/30/2019$ $2,350,000$ $1,513,953$ 1	33.3%	5,394	221	(5,173)
to $6/30/2006$ 1,048,000 978,139 to $6/30/2007$ 625,000 599,641 to $6/30/2008$ 1,320,000 7717,151 to $6/30/2010$ 1,472,878 to $6/30/2011$ 1,515,000 1,472,878 to $6/30/2011$ 2,370,000 1,472,878 to $6/30/2013$ 2,275,000 1,472,878 to $6/30/2013$ 2,275,000 2,04412 to $6/30/2016$ 3,750,000 2,314,518 to $6/30/2016$ 3,750,000 2,344,518 to $6/30/2016$ 3,750,000 2,344,518 to $6/30/2016$ 2,550,000 2,344,518 to $6/30/2016$ 2,550,000 1,579,189 to $6/30/2019$ 2,550,000 1,579,189 to $6/30/2019$ 2,350,000 1,579,189 to $6/30/2019$ 2,350,000 1,513,953 to $6/30/2019$ 2,350,000 1,513,953 1	33.3%	0	0	0
to $6/30/2007$ $625,000$ $599,641$ to $6/30/2008$ $1,320,000$ $717,151$ to $6/30/2009$ $1,320,000$ $1,155,117$ to $6/30/2010$ $1,800,000$ $1,472,878$ to $6/30/2011$ $1,515,000$ $1,472,878$ to $6/30/2013$ $2,370,000$ $1,472,878$ to $6/30/2013$ $2,750,000$ $1,472,878$ to $6/30/2014$ $2,750,000$ $1,325,087$ to $6/30/2016$ $3,750,000$ $2,344,518$ to $6/30/2016$ $3,750,000$ $2,344,518$ to $6/30/2016$ $3,750,000$ $2,394,097$ to $6/30/2018$ $2,550,000$ $1,579,189$ to $6/30/2019$ $2,550,000$ $1,579,189$ to $6/30/2019$ $2,350,000$ $1,513,953$ 1	69.5%	48,548	2,668	(45,880)
to $6(30/2008$ 995,000 717,151 to $6(30/2009$ 1,320,000 1,155,117 to $6(30/2010$ 1,800,000 1,472,878 to $6(30/2011$ 1,515,000 1,476,434 to $6(30/2013$ 2,370,000 1,456,434 to $6(30/2013$ 2,275,000 2,042,029 to $6(30/2016$ 2,750,000 2,314,518 to $6(30/2016$ 3,750,000 2,344,618 to $6(30/2016$ 2,550,000 2,394,097 to $6(30/2018$ 2,550,000 1,579,189 to $6(30/2018$ 2,550,000 1,579,189 to $6(30/2019$ 2,350,000 1,513,953 to $6(30/2020$ 1,513,953 to	26.4%	6,701	12	(6'689)
to $6/30/2009$ 1,320,000 1,155,117 to $6/30/2010$ 1,800,000 1,472,878 to $6/30/2011$ 1,515,000 1,472,878 to $6/30/20112$ 2,370,000 1,456,434 to $6/30/2013$ 2,275,000 2,042,029 to $6/30/2016$ 2,750,000 2,314,518 to $6/30/2016$ 3,750,000 2,344,618 to $6/30/2016$ 3,750,000 2,394,097 to $6/30/2016$ 2,550,000 1,579,189 to $6/30/2019$ 2,550,000 1,579,189 to $6/30/2019$ 2,550,000 1,579,189 to $6/30/2019$ 2,350,000 1,513,953 1 to $6/30/2019$ 2,350,000 1,513,953 1	17.7%	49,180	10,417	(38,763)
to $6/30/2010$ 1,800,000 1,472,878 to $6/30/2011$ 1,515,000 1,456,434 to $6/30/2012$ 2,370,000 1,456,434 to $6/30/2013$ 2,275,000 2,042,029 to $6/30/2015$ 2,750,000 2,314,518 to $6/30/2016$ 3,750,000 2,394,097 to $6/30/2016$ 3,750,000 1,579,189 to $6/30/2018$ 2,550,000 1,579,189 to $6/30/2019$ 2,550,000 1,579,189 to $6/30/2019$ 2,550,000 1,513,953 to $6/30/2019$ 2,350,000 1,513,953 to $6/30/2019$ 2,350,000 1,513,953 to $6/30/2019$ 2,350,000 1,513,953	12.7%	20,877	5,327	(15,550)
to $6/30/2011$ 1,515,000 1,456,434 to $6/30/2012$ 2,370,000 1,802,412 to $6/30/2013$ 2,275,000 2,042,029 to $6/30/2015$ 2,750,000 2,314,518 to $6/30/2016$ 3,750,000 2,394,097 to $6/30/2016$ 3,750,000 1,579,189 to $6/30/2018$ 2,550,000 1,579,189 to $6/30/2019$ 2,550,000 1,518,924 to $6/30/2019$ 2,350,000 1,513,953 1 to $6/30/2019$ 2,350,000 1,513,953 1	22.0%	71,943	7,850	(64,093)
to 6/30/2012 2,370,000 1,802,412 to 6/30/2013 2,275,000 2,042,029 to 6/30/2015 2,750,000 2,314,518 to 6/30/2016 3,750,000 2,314,518 to 6/30/2016 3,750,000 2,394,097 to 6/30/2018 2,550,000 1,579,189 to 6/30/2019 2,010,000 859,922 to 6/30/2019 2,350,000 1,513,953 1	48.7%	28,494	128	(28,366)
to 6/30/2013 2,275,000 2,042,029 to 6/30/2015 2,750,000 2,314,518 to 6/30/2016 3,750,000 2,314,518 to 6/30/2016 3,750,000 2,394,097 to 6/30/2018 2,650,000 1,579,189 to 6/30/2019 2,010,000 859,922 to 6/30/2019 2,350,000 1,513,953 1	28.2%	160,301	78,244	(82,057)
to 6/30/2014 2,750,000 2,314,518 to 6/30/2015 2,082,223 1,325,087 to 6/30/2016 3,750,000 2,394,097 to 6/30/2017 2,050,000 1,579,189 to 6/30/2019 2,550,000 1,515,924 1 to 6/30/2019 2,010,000 859,922 1 to 6/30/2020 2,350,000 513,953 1	18.2%	42,429	54,318	11,889
to 6/30/2015 2,082,223 1,325,087 1 6/30/2016 3,750,000 2,394,097 1 6/30/2017 2,050,000 1,579,189 to 6/30/2018 2,550,000 1,515,924 1 6/30/2019 2,010,000 859,922 1 to 6/30/2020 2,350,000 513,953 1	17.2%	75,036	41,425	(33,611)
to 6/30/2016 3,750,000 2,394,097 1 to 6/30/2017 2,050,000 1,579,189 to 6/30/2018 2,550,000 1,515,924 1 to 6/30/2019 2,010,000 859,922 1 to 6/30/2020 2,350,000 513,953 1	11.3%	85,510	68,113	(17,397)
to 6/30/2017 2,050,000 1,579,189 to 6/30/2018 2,550,000 1,515,924 1 to 6/30/2019 2,010,000 859,922 1 to 6/30/2020 2,350,000 513,953 1	20.2%	274,515	135,949	(138,566)
to 6/30/2018 2,550,000 1,515,924 1 to 6/30/2019 2,010,000 859,922 1 to 6/30/2020 2,350,000 513,953 1	10.7%	50,224	49,741	(483)
to 6/30/2019 2,010,000 859,922 1 to 6/30/2020 2,350,000 513,953 1	2.6%	26,411	90,199	63,788
to 6/30/2020 2,350,000 513,953 1	34.3%	394,227	116,405	(277,823)
	58.1%	1,066,511	534,282	(532,229)
TOTALS 32,062,455 23,266,740 8,795,715		2,413,326	1,195,706	(1,217,620)

Notes:
(1) from previous Oliver Wyman study
(2) from previous Oliver Wyman study
(3) = (1) - (2)
(4) based on paid loss development factors from previous Oliver Wyman study

(5) = (3) x (4)
(6) from City of Chandler
(7) = (6) - (5)

Oliver Wyman Actuarial Consulting, Inc.

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City of Chandler

Workers' Compensation Actual vs. Expected Incurred Losses & ALAE between 7/1/20 and 6/30/21 - Limited to Self-Insured Retention (SIR) Based on Data as of June 30, 2021

	44.4% 248 33.3% 248					248 248 2,541 9,059 6,551	248 248 0 2,541 9,059 6,551 8,741	248 248 2,541 9,059 8,741 4,608	248 248 9,059 9,559 3,551 3,526 3,526	248 248 248 248 248 248 248 241 241 255 268 268 268 268 268 268 268 268 268 268	248 248 248 2,541 9,059 8,741 3,526 3,207 38,207	248 248 248 2,501 2,551 8,741 4,608 1,636 2,256 38,207 0 0	248 248 248 0 2,541 2,541 8,741 8,741 3,526 3,526 3,526 3,526 3,059 0 8,046 0	248 248 248 2,500 2,541 8,741 8,741 3,526 3,526 38,046 84,046 65,856 65,856	248 248 248 2,541 2,541 8,741 3,526 3,207 38,046 65,856 65,856 65,856 (76,707)	248 248 551 555 526 526 536 536 536 536 536 531 531)	248 248 0001 551 555 526 526 526 536 046 0 0 0 0 315 315
44.4%	44.4% 33.3%	44.4% 33.3% 50.0%	44.4% 33.3% 50.0% 49.9%	4.4% 3.3% 0.0% 3.6%	*****								ო დ რ		000040-8 800 1900	248 248 248 2,001 2,541 2,541 2,541 3,526 6,551 1,636 84,046 84,046 85,856 (76,707 (76,707)	248 248 248 2,541 2,541 2,541 2,551 6,551 3,526 8,741 38,207 38,207 38,207 84,046 65,856 65,856 (144,531 (144,531 (164,531 (164,531 (164,531) (164
				4 % <u>0</u> 4 4	44.49 33.33 49.99 47.19	44.4% 33.3% 50.0% 49.9% 47.1% 28.5%	44.4% 33.3% 49.9% 47.1% 28.5% 18.9%	44.4% 33.3% 49.9% 47.1% 18.9% 12.2%	44.4% 33.3% 50.0% 49.9% 47.1% 12.2% 6.7%	44.4% 33.3% 49.9% 47.1% 12.2% 6.7% 2.6%	44.4% 33.3% 49.9% 47.1% 12.2% 6.7% 33.3%	44.4% 33.3% 50.0% 47.1% 12.2% 6.7% 33.3% 20.8%	44.4% 33.3% 50.0% 47.1% 43.6% 6.7% 6.7% 20.8% 40.5%	44.4% 33.3% 50.0% 49.9% 47.1% 6.7% 6.7% 20.8% 25.6% 25.6%	44.4% 33.3% 50.0% 49.9% 47.1% 6.7% 6.7% 20.8% 25.6% 33.3% 25.6%	44.4% 33.3% 49.9% 47.1% 6.7% 50.8% 33.3% 40.5% 30.6%	44.4% 33.3% 50.0% 49.9% 47.1% 6.7% 6.7% 33.3% 2.6% 2.6% 2.6% 2.6% -30.5% -30.5% -32.1%
558	558 743	558 743 0	558 743 0 4,010	558 743 0 5,832	558 743 6,010 5,832 19,252	558 743 4,010 5,832 19,252 23,007	558 743 4,010 5,832 19,252 23,007 46,294	558 743 6,010 5,832 19,252 23,007 46,294 37,705	558 743 743 7,010 5,832 19,252 23,007 46,294 37,705 52,424	558 743 743 7,743 5,832 19,252 23,007 46,294 52,424 63,015	558 743 743 7,43 7,705 5,832 19,252 23,007 46,294 52,424 63,015 63,015	558 743 743 7,010 5,832 19,252 23,007 46,294 63,015 63,015 63,015 0	558 743 743 743 7,705 7,705 5,832 7,705 7,705 63,015 63,015 114,765 0 207,559	558 743 743 5,832 19,252 37,705 63,015 63,015 63,015 114,765 207,559 256,798	558 743 743 5,832 5,832 19,252 37,705 63,015 63,015 63,015 114,765 207,559 256,798 238,850	558 743 743 5,832 5,832 19,252 37,705 63,015 63,015 114,765 63,015 114,765 256,798 256,798 238,850 271,978	558 743 743 4,010 5,832 19,252 23,007 46,294 63,015 63,015 63,015 114,765 52,424 63,015 114,765 726,798 236,798 236,798 236,798 238,008
1.085.942	1,085,942 833.257	1,085,942 833,257 651,732	1,085,942 833,257 651,732 1,043,990	1,085,942 833,257 651,732 1,043,990 619,168	1,085,942 833,257 651,732 1,043,990 619,168 975,748	1,085,942 833,257 651,732 651,732 1,043,990 619,168 976,748 1,296,993	1,085,942 833,257 651,732 651,732 1,043,990 619,168 976,748 1,296,993 1,753,706	1,085,942 833,257 651,732 651,732 1,043,990 619,168 976,748 1,296,993 1,773,706	1,085,942 833,257 651,732 651,732 1,043,990 619,168 975,748 1,753,706 1,477,295 2,317,576	1,085,942 833,257 651,732 651,732 1,043,990 619,168 975,748 1,753,706 1,477,295 2,317,576 2,311,985	1,085,942 833,257 651,732 651,732 1,043,990 619,168 975,748 1,753,706 1,477,295 2,317,576 2,211,985 2,635,235	1,085,942 833,257 651,732 651,732 1,043,990 619,168 975,748 1,753,706 1,477,295 2,317,576 2,317,576 2,211,985 2,635,235 2,635,235	1,085,942 833,257 651,732 651,732 1,043,990 619,168 975,748 1,477,295 1,477,295 2,317,576 2,317,576 2,317,576 2,635,235 2,635,235 2,635,235 2,632,223	1,085,942 833,257 651,732 651,732 1,043,990 619,168 975,748 1,753,706 1,753,706 1,773,295 2,635,235,235 2,635,235,235 2,635,235,235,235,235,235,235,235,235,235,2	1,085,942 833,257 651,732 651,732 619,168 975,748 1,753,706 1,753,706 1,773,295 2,635,235 2,635,235 2,635,235 2,635,235 2,635,235 2,635,235 2,635,235 2,635,235 2,637,295 2,637,295 2,637,206 2,311,985 2,637,223 2,637,223 2,637,223 2,637,235 2,535,235 2,535,235 2,535,235 2,535,235 2,535,235 2,535,235 2,535,235 2,535,235 2,535,235 2,535,235 2,535,235 2,535,235 2,535,235 2,535,235 2,535,235 2,535,235 2,535,235,235 2,535,235,235 2,535,235,235,235 2,535,235,235,235,235,235,235,235,235,23	1,085,942 833,257 651,732 651,732 619,168 975,748 1,753,706 1,753,706 1,773,295 2,635,235 2,635,235 2,635,235 2,635,235 2,635,235 2,637,295 2,311,150 2,311,150 1,538,022	1,085,942 833,257 651,732 651,732 619,168 976,748 1,296,993 1,753,706 1,477,295 2,317,576 2,317,576 2,317,576 2,317,576 2,317,576 2,317,576 2,317,576 2,317,576 2,317,576 2,335 2,635,295 2,635,295 2,653,295 2,533,202 2,533,205 2,533,205 2,533,205 2,535,205 2,555,2055,20
1.086.500	1,086,500 834,000	1,086,500 834,000 651,732	1,086,500 834,000 651,732 1,048,000	1,086,500 834,000 651,732 1,048,000 625,000	1,086,500 834,000 651,732 1,048,000 625,000 995,000	1,086,500 834,000 651,732 1,048,000 625,000 995,000	1,086,500 834,000 651,732 1,048,000 625,000 995,000 1,320,000	1,086,500 834,000 651,732 651,732 1,048,000 625,000 995,000 1,320,000 1,515,000	1,086,500 834,000 651,732 651,732 651,732 995,000 995,000 1,320,000 1,515,000 2,370,000	1,086,500 834,000 651,732 651,732 651,732 651,732 651,732 995,000 1,320,000 1,515,000 2,370,000 2,275,000	1,086,500 834,000 651,732 651,732 655,000 625,000 995,000 1,320,000 1,515,000 2,370,000 2,755,000 2,750,000	1,086,500 834,000 651,732 651,732 655,000 995,000 1,515,000 2,370,000 2,755,000 2,750,000 2,750,000 2,750,000	1,086,500 834,000 651,732 651,732 651,732 652,000 995,000 1,515,000 2,370,000 2,755,000 2,755,000 2,755,000 3,750,000 3,750,000	1,086,500 834,000 651,732 651,732 651,732 655,000 995,000 1,515,000 2,370,000 2,755,000 2,755,000 2,755,000 2,755,000 2,000 2,000	1,086,500 834,000 851,732 651,732 651,732 995,000 1,515,000 2,370,000 2,750,000 2,750,000 2,750,000 2,750,000 2,550,000 2,550,000	1,086,500 834,000 851,732 651,732 651,732 655,000 995,000 1,515,000 2,370,000 2,750,000 2,750,000 2,750,000 2,550,000 2,550,000 2,650,000 2,650,000 2,000	1,086,500 834,000 851,732 955,000 955,000 955,000 1,515,000 2,375,000 2,755,000 2,755,000 2,755,000 2,756,0000 2,756,0000 2,756,000 2,756,000 2,75
03		\$ \$ \$		5 5 5 5 5 5	\$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
	833.257	833,257 651,732	833,257 651,732 1,043,990 4,	833,257 651,732 1,043,990 619,168	833,257 651,732 651,732 619,168 619,168 975,748	833,257 651,732 651,732 619,168 976,748 1,296,993	833,257 651,732 651,732 619,168 975,748 1,296,993 1,753,706	833,257 651,732 651,732 619,168 976,748 1,296,993 1,753,706 1,477,295	833,257 651,732 651,732 619,168 975,748 1,296,993 1,753,706 1,477,295 2,317,576	833,257 651,732 651,732 619,168 975,748 1,296,993 1,753,706 1,477,295 2,317,576 2,311,985	833,257 651,732 651,732 619,168 975,748 975,748 1,753,706 1,477,295 2,317,576 2,317,576 2,211,985 2,535,235	833,257 651,732 651,732 619,168 975,748 975,748 1,753,706 1,477,295 2,317,576 2,317,576 2,635,235 2,635,235 2,635,235 2,635,235 2,635,235	833,257 651,732 651,732 619,168 975,748 975,748 1,753,706 1,477,295 2,317,576 2,317,576 2,211,985 2,635,235 2,645,235 2,645,235 2,748 2,748,235 2,645,235 2,748,235 2,645,235 2,545,235,235 2,545,235,235 2,545,235,235 2,545,235,235 2,545,235,235 2,545,235,235 2,545,235,235 2,545,235,235 2,545,235,235 2,545,235,235,235,235,235,235,235,235,235,23	833,257 651,732 651,732 619,168 975,748 975,748 1,753,706 1,753,706 2,317,576 2,635,235 2,735,206 2,735,706 2,741,935 2,741,935 2,725,706 2,741,935 2,725,706 2,741,935 2,725,706 2,741,935 2,725,706 2,741,732 2,635,235 2,726,933 2,727,706 2,727,706 2,223,706 2,235,706 2,235,235,235,235 2,235,235,235,235,235,235,235,235,235,23	833,257 651,732 651,732 619,168 975,748 975,748 1,753,706 1,753,706 2,635,235 2,735,206 2,635,235 2,635,235 2,635,235 2,635,235 2,635,235 2,635,235 2,635,235 2,635,235 2,635,235 2,635,235 2,635,235 2,635,235 2,635,235 2,635,235 2,635,235 2,235,206 2,635,235 2,711,556 2,635,235 2,535,235,235,235 2,535,235,235,235,235,235,235,235,235,23	833,257 651,732 651,732 619,168 976,748 976,748 1,753,706 1,753,706 2,317,576 2,635,235 2,235,206 2,635,235 2,535,235,235,235 2,535,235,235,235,235,235,235,235,235,23	833,257 651,732 651,732 975,748 975,748 1,753,706 1,477,295 2,317,5295 2,3252 2,317,5295 2,3252 2,

Notes:
(1) from previous Oliver Wyman study
(2) from previous Oliver Wyman study
(3) = (1) - (2)
(4) based on incurred loss development factors from previous Oliver Wyman study

(5) = (3) x (4)
(6) from City of Chandler
(7) = (6) - (5)

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Oliver Wyman Actuarial Consulting, Inc.

Workérs' Compensation Actual vs. Expected Paid Losses & ALAE between 7/1/20 and 6/30/21 - Limited to \$75,000 Based on Data as of June 30, 2021 **City of Chandler**

(2)	Difference	0	(11,190)	0	0	(6,718)	(7,825)	677	(3,479)	0	(3,245)	0	3,014	0	(9,682)	0	(25,255)	(45,629)	(41,923)	(151,256)	
(<u>9</u>)	Actual Period Paid	0	221	0	0	12	4,221	677	(732)	0	918	0	3,014	0	5,494	0	616	115,525	413,596	543.562	
(2)	Expected Period Paid	ο	11,412	0	0	6,730	12,046	0	2,747	0	4,163	0	0	0	15,176	0	25,871	161,154	455,519	694.818	
(4)	Expected Period Paid %	100.0%	100.0%	100.0%	50.0%	33.3%	25.0%	20.0%	28.5%	53.1%	34.5%	25.5%	24.0%	19.2%	27.3%	25.0%	19.6%	45.7%	63.6%		
(3)	Unpaid @ 6/30/20	0	11,412	0	0	20,211	48,255	0	9,643	0	12,071	0	0	0	55,512	0	131,924	352,904	716,047	1.357.977	
(2)	Paid @ 6/30/20	478,631	774,870	621,971	649,576	587,789	691,745	674,560	1,300,357	966,822	1,159,929	1,069,226	1,479,586	990,329	1,034,850	1,264,190	1,098,076	832,096	513,953	16 188 557	
(1)	Ultimate @ 6/30/20	478,631	786,281	621,971	649,576	608,000	740,000	674,560	1,310,000	966,822	1,172,000	1,069,226	1,479,586	990,329	1,090,362	1.264,190	1,230,000	1,185,000	1,230,000	17 EAG 53A	100501051
	Policy Period	1/1/2003 to 6/30/2003	9	9	9	9	9	<u>ç</u>	ç	9	ç		<u>ç</u>	9	\$	þ	9	2	\$		I CI ALS

Notes: (1) from previous Oliver Wyman study (2) from previous Oliver Wyman study (3) = (1) - (2) (4) based on paid loss development factors from previous Oliver Wyman study

(5) = (3) \times (4) (6) from City of Chandler (7) = (6) - (5)

4

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Workers' Compensation Actual vs. Expected Incurred Losses & ALAE between 7/1/20 and 6/30/21 - Limited to \$75,000 Based on Data as of June 30, 2021 City of Chandler

Policy Period							
	Ultimate @ 6/30/20	Incurred @ 6/30/20	IBNR @ 6/30/20	Expected Period Incurred %	Expected Period Incurred	Actual Period Incurred	Difference
6/30/2003	478.631	478,631	0	100.0%	0	0	0
to 6/30/2004	786,281	786,281	0	100.0%	0	0	0
6/30/2005	621,971	621,971	0	100.0%	0	0	0
6/30/2006	649,576	649,576	0	100.0%	0	0	0
6/30/2007	608,000	607,316	684	100.0%	684	0	(684)
6/30/2008	740,000	737,820	2,180	50.0%	1,090	73,407	72,318
6/30/2009	674,560	674,560	0	33.3%	0	677	677
6/30/2010	1,310,000	1,306,294	3,706	25.0%	925	(877)	(1,802)
6/30/2011	966,822	966,822	0	20.0%	0	0	0
6/30/2012	1,172,000	1,164,307	7,693	16.6%	1,279	Q	(1,273)
6/30/2013	1,069,226	1,069,226	0	14.2%	0	0	0
6/30/2014	1,479,586	1,479,586	0	41.5%	0	3,864	3,864
6/30/2015	990,329	990,329	0	29.2%	0	0	0
6/30/2016	1.090.362	1,090,362	0	46.3%	0	0	0
6/30/2017	1.264,190	1,264,190	0	37.7%	0	0	0
6/30/2018	1.230.000	1,149,200	80,800	0.0%	0	(946)	(946)
to 6/30/2019	1,185,000	1,079,028	105,972	0.0%	0	1,159	1,159
	1,230,000	859,380	370,620	81.3%	301,377	180,813	(120,564)
TOTALS 1	17,546,534	16,974,880	571,654		305,354	258,102	(47,252)

Notes: (1) from previous Oliver Wyman study (2) from previous Oliver Wyman study (3) = (1) - (2) (4) based on incurred loss development factors from previous Oliver Wyman study

(5) = (3) x (4)
(6) from City of Chandler
(7) = (6) - (5)

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Oliver Wyman Actuarial Consulting, Inc.

City of Chandler Workers' Compensation Selected Loss Development Factors - Age to Ultimate Based on Data as of June 30, 2021

L			Paid L	Paid Losses & ALAE	LAE					Incurre	Incurred Losses & ALAE	ALAE				Reported Counts
Age	75,000	500,000	600,000	880,000	1,000,000	1,055,000	1,755,000	75,000	500,000	600,000	880,000	1,000,000	1,055,000	1,755,000	Age	Excl. CWOP
ţ	300 0	0 KK	0 KKK	9 KG7	2 610	2 611	2 625	1 340	1.434	1.438	1.451	1.456	1.457	1.466	12	1.095
77	1 257	1 340	1.344	1.355	1.361	1.361	1.366	1.051	1.089	1.091	1.102	1.110	1.110	1.120	24	1.005
1 %	1.133	1.282	1.292	1.322	1.335	1.336	1.349	1.030	1.079	1.082	1.094	1.101	1.102	1.111	36	1.002
48	1.110	1.257	1.267	1.296	1.309	1.310	1.323	1.020	1.077	1.081	1.094	1.100	1.101	1.110	48	1.000
60	1.094	1.238	1.248	1.277	1.289	1.290	1.303	1.015	1.063	1.067	1.082	1.088	1.089	1.099	60	1.000
12	1.078	1.216	1.227	1.260	1.274	1.276	1.290	1.010	1.042	1.046	1.058	1.063	1.064	1.073	72	1.000
1 28	1.064	1.195	1.206	1.243	1.258	1.259	1.275	1.007	1.032	1.036	1.046	1.051	1.051	1.059	84	1.000
96	1.054	1.176	1.188	1.227	1.243	1.245	1.262	1.006	1.028	1.031	1.043	1.048	1.049	1.057	96	1.000
108	1.045	1.157	1.168	1.207	1.223	1.225	1.242	1.005	1.022	1.026	1.038	1.043	1.044	1.052	108	1.000
120	1.037	1.138	1.149	1.187	1.203	1.204	1.222	1.004	1.018	1.021	1.033	1.038	1.039	1.047	120	1.000
132	1.032	1.132	1.143	1.182	1.198	1.200	1.217	1.003	1.015	1.017	1.028	1.032	1.032	1.039	132	1.000
144	1.027	1.120	1.131	1.167	1.183	1.184	1.200	1.002	1.010	1.012	1.020	1.023	1.023	1.029	144	1.000
156	1.024	1.116	1.127	1.163	1.178	1.180	1.196	1.001	1.006	1.007	1.011	1.013	1.013	1.016	156	1.000
168	1.021	1.11	1.121	1.157	1.172	1.174	1.190	1.000	1.000	1.000	1.000	1.000	1.000	1.000	168	1.000
180	1.019	1.107	1.117	1.153	1.168	1.169	1.185	1.000	1.000	1.000	1.000	1.000	1.000	1.000	180	1.000
192	1.017	1.104	1.114	1.149	1.164	1.165	1.181	1.000	1.000	1.000	1.000	1.000	1.000	1.000	192	1.000
204	1.015	1.099	1.109	1.144	1.158	1.159	1.175	1.000	1.000	1.000	1.000	1.000	1.000	1.000	204	1.000
216	1.013	1.093	1.102	1.135	1.149	1.150	1.165	1.000	1.000	1.000	1.000	1.000	1.000	1.000	216	1.000

Notes:

limited (bolded) paid LDFs based on Appendix A, Page 2 limited (bolded) incurred LDFs based on Appendix A, Page 3 other LDFs are adjusted using Oliver Wyman relativities reported count factors based on Appendix A, Page 4 LDFsSum on 9/29/2021 at 6:13 PM

Page 2	216	775,091	216 Ult		1.000 Tai	1.013	1.013 1.013	1.5%	
Ļ.	204	774,810 621,971	204 to 216	1.000	1.000 1.000 1.000	1.002	1.002	0.2%	
	192	749,083 221,971 649,576 649,576	192 to 204	1,034	1.017 1.019 1.001	1.002	1.002 1.017	0.2%	
	180	739.755 621.971 642.801 587.801 587.801	180 to 192	1,013 1,000 1,000 1,000	1.004 1.005 1.001	1.003	1.002 1.019	0.2%	
	168	725,875 649,576 649,576 987,789 995,966	168 to 180	1019 1000 1,000 1,000 1,000	1.005 1.005 1.000 1.001	1.004	1.002	0.2%	
	156	725,855 49,577 49,577 852,176 852,176 851,75 875,237	156 to 168	1,000 1,000 1,000 1,006 1,006	1.003 1.003 1.005 1.001	1.004	1.002 1.024	0.3%	
	144	725,665 449,1775 449,577 656,9471 656,947 1,239,626 1,239,626	144 to 156	1,000 1,000 1,000 1,001 1,001	1.001 1.002 1.003 1.003	1.005	1.003	0.5%	
	132	725,697 631,775 631,775 632,063 679,2063 679,2063 1300,357 966,822 966,822	132 132 144	000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	1.002 1.001 1.002 1.002 1.002	1.005	1.005	0.5%	
City of Chandler Workers Compensation Paid Losses & A.LE - Limited to \$75,000 Based on Data as of June 30, 2021	120	725,697 621,775 643,576 643,578 643,527 1238,762 1288,622 966,822 1,160,847	120 132 to	1,000 1,000 1,000 1,000 1,006 1,006 1,006 1,006 1,006	1.007 1.006 1.011 1.015	1.008	1.005	0.8%	
City of Chandler orkers' compensati ss & ALAE - Limited on Data as of June.	108	722,300 621,775 640,201 641,775 658,716 658,716 658,735 1,301,132 968,823 1,301,132 1,159,923 1,069,225 1,069,225	108 120	1,005 1,000 1,000 1,000 1,000 1,000 1,001 1,001	1.005 1.004 1.005 1.000 1.008	1.009	1.008	0.8%	
) Wo Paid Losse: Based o	96	722,205 629,1775 629,1421 638,4421 638,248 1,299,884 1,158,887 1,1689,226 1,482,501 1,482,501	36 13 13 13 13 13 13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	1,000 1,000 1,005 1,005 1,005 1,000 1,000 1,000 1,000	1.005 1.005 1.001 1.000 1.008	1.009	1.008 1.054	0.9%	
	84	722,269 615,357 615,357 585,106 585,106 587,301 1,377,939 1,157,939 1,137,056 1,137,056 1,137,056 1,137,056 1,137,056 1,137,056 1,037,056 1,037,056	8 8 8 8	1,000 1,009 1,019 1,019 1,019 1,019 1,010 1,001 1,001 1,001 1,001	1.012 1.011 1.012 1.011 1.011	1.014	1.010	1.2%	
	72	720,556 614,644 514,644 584,800 584,800 585,827 585,827 585,827 12,623 14,624 1,153,721 997,588 1,472,343 997,588 1,472,343 997,588 1,402,343 1,040,344 1,040,344 1,040,344 1,040,344	72 to 84	1,002 1,012 1,014 1,014 1,014 1,014 1,014 1,014 1,010 1,0000 1,00000000	1.008 1.007 1.009 1.013	1.019	1.013 1.078	1.4%	
	60	715,176 603,577 603,677 603,677 603,677 552,885 552,885 695,874 1,160 1,160 1,160 1,160 1,178 1,150 1,124,801 1,024,803 1,036,803 1,036,803,803 1,036,803,803 1,036,80	4 te 60	1,006 1,006 1,006 1,006 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	1.018 1.015 1.023 1.022 1.022	1.026	1.015 1.094	1.4%	
	48	661,178 592,457 592,1457 552,185 552,186 552,186 645,647 1,288,475 1,433,603 8661,204 1,433,603 8661,204 1,433,603 888,803 1,286,190 1,286,592 399,797 1,286,592 399,797 1,286,592 399,797 1,286,592 399,797 1,286,592 399,797 1,286,592 399,797 1,286,592 399,797 1,286,592 399,797 1,286,592 399,797 1,286,597 399,797 1,286,597 399,797 1,286,597 1,507 1,597 1,597 1,507 1,597 1	8 3 5 5	1,022 1,022 1,012 1,010 1,021 1,010 1,010 1,010 1,010 1,023 1,023 1,023 1,023 1,023 1,023 1,023 1,023	1.012 1.014 1.022 1.012 1.025	1.054	1.015	1.8%	
	36	621,763 557,418 557,418 557,418 533,181 702,325 733,181 702,325 1,197,776 852,237 1,422,414 938,164 938,164 938,164 938,164 938,164 1,208,076 1,20	36 26	1,025 1,075 1,076 1,076 1,076 1,076 1,073 1,001 1,001 1,001 1,001	1.014 1.012 1.012 1.017 1.025	1.090	1.020	8.7%	
	24	565,212 556,717 556,761 556,761 556,761 556,965 1,266,773 1,162,266 1,162,266 1,157,268 1,112,372 937,764 937,764 937,764 937,764 937,764 937,764 937,764	24 to	1,100 1,1076 1,145 1,145 1,145 1,135	1.097 1.094 1.102 1.113 1.113	1.187	1.110 1.257	36.5%	
	12	247,025 276,397 200,706 200,705 321,397 321,281 867,145 667,145 657,347 657,342 657,347 656,552 657,347 656,552 657,347 656,552 657,347 656,552 657,347 656,552 657,347 656,552 657,347 656,552 657,347 656,552 657,347 656,552 657,556 657,347 656,552 657,556 657,347 656,552 657,556 657,556 657,556 657,556 657,556 657,556 657,556 657,556 657,556 657,556 657,557 656,552 656,556 657,556 657,556 657,556 657,556 657,556 657,556 657,556 657,556 657,556 657,556 657,556 657,556 657,556 657,556 657,556 657,556 657,557 656,556 657,557 656,556 657,556 657,557 656,556 657,556 657,557 656,556 657,557 656,556 657,55		2.288 2.521 2.521 2.522 2.523 1.542 1.542 1.542 1.570 1.587 1.597	1.935 1.844 1.882 1.752 1.850	1.798	1.850 2.326	43.0%	
	Accident Period	7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2009 7/1/2010 7/1/2010 7/1/2010 7/1/2010 7/1/2010 7/1/2010 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015	Accident	7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2006 7/1/2006 7/1/2006 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016	Average Wtd Avg 5 Yr Avg 3 Yr Avg Prior	Industry	Selected Ultimate	Pattern	Notes.

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Oliver Wyman Actuarial Consulting, Inc.

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Page	216	785,281	216 Uit to		1.000 Tail	1.001	1.000	0,0%	
	204	718, 281 521, 971	204 to 216	1,000	1.000 1.000 1.000	1.000	1.000	0.0%	
	192	81.9.19 171.971 849.576 849.576	192 to 204	1,000 1,000	1.010 1.011 1.000	1.000	1.000	0.0%	
	180	770,294 849,576 607,316 607,316	180 192	1,000 1,1000 1,1000 1,1000	1.000 1.000 1.000	1.000	1.000	0.0%	
	168	257,007 621,971 649,576 817,2316 811,227	158 138 ta 138	1,018 1,000 1,000 1,000 1,000	1.004 1.005 1.000 1.000	1.001	1.000	0.1%	
	156	745,527 8.11,775 8.49,576 8.49,576 7.37,820 6.75,237 6.75,237	156 to 168	2010 1000 1000 1000 1009 1099	1.023 1.025 1.033 1.001	1.001	1.001	0.1%	
	<u>4</u>	745.507 621.775 649.576 67.231 637.231 737.820 1,305,417 1,305,417	141 155 156	000,1 1,000 10,000 1,0000 1,0000 1,0000 1,00000000	1.000 1.000 1.000 1.000	1.001	1.001	0.1%	
	132	746,550 649,576 649,576 649,576 728,026 1748 1,305,822 966,822	132 132 132	1,000 11,000 11,000 11,000 11,000 0,399 0,399	1.002 1.002 1.003 1.004	1.001	1.001	0.1%	
City of Chandler Workers' Compensation Incurred Losses & ALAE - Limited to \$75,000 Based on Data as of June 39, 2021	120	746,550 621,775 649,576 685,343 685,343 966,822 1,164,313 1,164,313	120 132 b	1,000 1,000 1,000 1,000 1,000 1,000 1,000	1.001 1.001 1.002 1.005 1.001	1.001	1.001 1.004	0.1%	
City of Chandler orkers' Compensations & ALAE - Limite Ses & ALAE - Limite	108	745,968 648,377 648,375 649,316 744,317 1,306,025 966,822 1,164,307 1,164,307 1,164,307 1,069,226	108 to 120	100,1 000,1 000,1 000,1 000,1 000,1 000,1 1000,1 1000,1 1000,1	0.998 0.998 0.997 1.000	1.001	1.001	0.1%	
Ci Worl Incurred Losse Based on	96	745,988 655,980 643,980 647,705 13.005,025 966,023 966,822 1,163,292 1,483,450 1,483,450	96 108	1,000 1,008 1,008 1,009 1,000 1,000 1,000 1,000 1,000	0.999 1.000 1.000 1.000 1.001	1.002	1.001	0.1%	
	84	746,126 654,029 643,903 618,033 695,025 966,782 1,0472,245 1,0472,455 1,0472,455 1,0472,4555 1,0472,4555 1,047	54 8 8	1,000 1,1003 1,1003 1,1002 1,002 1,002 1,002 1,002 1,002 1,002 1,003	1.006 1.007 1.010 1.009 1.005	1.003	1.001	0.3%	ulletin
	22	744,414 564,310 643,810 655,385 655,385 655,385 655,301 968,533 1,398,675 1,153,992 1,153,992 1,138,675 1,138,675 1,030,322 1,030,362 1,030,362	5 Q	1,002 1,004 1,006 1,006 1,006 1,000 1,000 1,000 1,000 1,000 1,000 1,000	1.006 1.004 1.000 1.000	1.004	1.003	0.5%	ırnual Statistical Bulletin
	80	753,179 654,707 654,707 6516,109 6516,109 6517,751 1,755 956,774 956,977 1,491,755 1,491,755 1,080,362 1,080,362 1,264,190	3 8 8	0,388 1,000 1,000 1,005 1,005 1,005 1,005 1,005 1,005 1,000 1,000 1,000 1,000	1.005 1.005 1.011 0.999 1.015	1.004	1.005	0.5%	P
	84	716.149 655,098 655,312 655,312 655,312 643,402 1,278,424 1,278,424 1,278,437 1,184,497 1,88,453 1,480,078 1,480,078 1,060,018 1,060,018 1,060,018 1,148,254	\$ \$ <u></u>	1,052 0,999 0,999 0,999 0,999 0,995 0,995 1,000 1,000 1,002 1,002 1,002	1.006 1.008 1.028 1.007 1.020	1.010	1.005 1.020	1.0%	n the 2019 editiv
	36	658,303 638,303 613,104 609,148 771,226 917,1269 917,124 917,124 917,1276 917,1679 917,1679 1,147,205 1,143,202 1,148,202 1,248,202 1,24	99 Q Q	1,088 1,029 1,029 1,029 1,001 1,001 1,001 1,003 1,001 1,001 1,001 1,001 1,001 1,001 1,001 1,001 1,001 1,003 1,001 1,003 1,001 1,001 1,001 1,003 1,001 1,003	1.000 0.996 1.000 1.003 1.003	1.031	1.010 1.030	1.9%	sed on data froi
	24	615,533 596,617 565,416 565,416 565,416 736,617 736,617 736,617 736,617 1,384,622 977,056 1,384,622 977,056 1,384,622 1,264,791 1,264,791 1,262,255 1,272,355 1,252,355 1,255,355 1,255,5555 1,255,555 1,255,5555 1,255,	25 Q5	1,068 1,068 1,068 1,064 1,064 1,064 0,942 0,942 0,942 0,942 0,942 0,942 0,943 0,943 0,943 0,943 0,943 0,943 0,943 0,943	1.004 0.993 0.984 0.980	1.071	1.020 1.051	20.5%	inclustry development factors based on data from the 2019 edition of NCCI
	5	405,319 405,319 433,092 243,092 361,135 861,357 1,113,010 445,987 1,113,010 1,113,010 1,113,010 1,113,010 1,113,010 1,113,020 1,1110,080 1,2110,080 1,2100,080 1,210,	5 B 2	1,519 1,519 1,519 1,519 1,145 1,145 1,145 1,145 1,145 1,145 1,145 1,145 1,177 1,177 1,177 1,178	1.376 1.272 1.282 1.188 1.188	1.265	1.275 1.340	74.6%	industry develop
	Accident Period	7/17/2012 17/17/17/2012 17/17/17/2012 17/17/2012 17/17/2012 17/17/2012 17/17/2012 17/17/2012 17/17/	Accident Period	RIGGT/NT 2002/	Average Wtd Avg 5 Yr Avg 3 Yr Avg Prior	Industry	Selected Ultimate	Pattern	Notes:

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Oliver Wyman Actuarial Consulting, Inc.

Appendix A Page 3

Appendix A Page 4	216		216 8 5 5	1.000 Tail 1.000 1.000	0.0%
Ϋ́	204	148 25	204 216 1.000	1,000 1,000 1,000 1,000 1,000	%0.0
	192	149 143 147	192 102 1,000 1,000	1.000 1.000 1.000 1.000	0.0%
	180	149 147 135 135	180 192 - 1 192 - 1 192 - 1 192 - 1 192 - 1 192 - 1 193 - 1 195 - 1 19	1.000 1.000 1.000 1.000	0.0%
	168	148 147 138 138 138	168 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000	0.0%
	156	149 147 161 165 165	155 148 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000	0.0%
	144	148 147 161 165 165 165 165 165 165 165 165 165	144 155 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	%0.0
nents	132	149 147 161 165 155 155	72 75 75 75 75 75 75 75 75 75 75	1.000 1.000 1.000 1.000 1.000 1.000	%0.0
n d Without Payr 0, 2021	120	148 147 147 161 164 155 155 155	128 138 139 139 139 139 139 139 139 139 139 139	1.001 1.001 1.001 1.002 1.000 1.000 1.000	0.0%
City of Chandler Workers: Compensation Reported Claim Counts-Excluding Closed Without Payments Based on Data as of June 30, 2021	108	151 147 147 165 165 165 155 155	108 120 1000 10000 10000 10000 10000 10000 10000 10000	0.398 0.399 0.399 1.000 1.000 1.000	0.0%
City Workers aim Counts - E Based on Dar	96	149 147 147 165 165 155 154 155	86 1013 1013 1000 1000 11000 11000 11000 11000 11000 11000 11000 11000 11000	1.001 1.001 0.999 1.000 1.000 1.000 1.000	0,0%
Reported Cli	84	149 145 155 166 166 165 155 155 155 155 155 15	84 96 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	0.995 0.995 0.999 1.000 1.000 1.000	0.0%
	22	149 147 147 147 147 165 154 154 155 155 155 155 155	72 84 10000 110000 10000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000	1.002 0.999 0.999 1.000 1.000 1.000	0.0%
	09	149 142 142 165 165 165 153 154 153 154 153 154 153	60 72 1,0000 1,00000000	1.000 0.399 0.300 1.000 1.000 1.000 1.000	0.0%
	48	149 147 147 158 158 158 158 158 158 158 158 158 158	48 60 100000 1000000	0.998 0.998 1.000 1.000 1.000 1.000 1.000	0.2%
	36	149 147 147 147 158 158 158 158 158 158 158 158 158 158	35 45 48 48 1,0000 1,00000000	1.004 1.002 1.002 1.005 1.005 1.002	0.3%
	24	81 15 15 15 15 15 15 15 15 15 15 15 15 15	24 36 36 1,0007 1,0006 1,0006 1,0006 1,0006 1,0006 1,0000 1,0000 1,0006 1,0006 1,0006 1,0006 1,0006 1,0006 1,0006 1,0006 1,0006 1,0006 1,0006 1,0006 1,0006 1,0006 1,0006 1,0007 1,0007 1,0007 1,0007 1,0007 1,0007 1,0007 1,0007 1,0007 1,0007 1,0007 1,0007 1,0007 1,0007 1,0007 1,0007 1,0007 1,0007 1,0007 1,0006 1,0007 1,0006 1,0007 1,0006 1,0007 1,0006	1.000 1.000 1.005 1.005 1.005 1.005	8.2%
	12	143 1335 1345 1544 1545 157 157 157 155 155 155 155 155 155 15	12 24 24 1044 11044 11225 112555 112555 112555 1125555 1125555 1125555 112555555 11255555555	1.092 1.092 1.099 1.090 1.090 1.095	91.3%
	Accident Period	7/1/2004 7/1/2004 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015	Accident Accident Accident Accident Period Bestinida 7/1/2004 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2019 7/10000 7/10000 7/1000 7/1000 7/100000	Average Wtd Avg 5 Yr Avg 3 Yr Avg Prior Selected Uttimate	Pattern

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Oliver Wyman Actuarial Consulting, Inc.

4 Appendix A

> City of Chandler Vorker compression Paid Losses & ALE - Utimate Losses & ALE - Limited to \$75,000 Based on Data as of June 30, 2021

216	775,081	216	0.3865
204	714,870 621,971	204	0.985
192	749.083 221.911 649.576 649.576	192	0.953 1.000 1.000 1.000 1.000 1.000
180	739,755 621,576 643,576 587,801 587,801	180	0.941 1.000 1.007 0.367 0.367
168	725,875 621,577 643,7789 695,966 695,966	168	0.923 1.000 1.001 0.967 0.857 0.857
156	725,655 643,775 643,776 643,776 631,745 675,237 675,237	156	0.923 1.000 0.558 0.858 0.852 1.000
144	725,655 643,775 643,776 643,071 688,940 674,594 1,299,626	144	0.923 1.000 1.000 0.845 0.395 0.395 0.392 0.392
132	725.697 649,775 649,208 612,065 612,004 674,204 1,300,357 966,822	132	0.923 1.000 1.000 0.835 0.835 0.393 1.000 1.000
120	725,687 649,775 649,776 649,778 613,624 645,027 1,589,762 1,160,847 1,160,847	120	0.923 1.000 1.000 0.825 0.855 0.955 0.955 0.952 0.952 0.952 0.952
108	722,300 640,277 640,277 640,271 644,771 9581,490 1,684,77 1,155,922 1,069,226	108	0.919 1.000 0.957 0.958 0.953 1.000 1.000 1.000 1.000
96	722,205 621,775 623,774 578,421 578,421 1,299,694 1,482,694 1,482,601 1,482,601	96	0.919 1.000 0.951 0.952 0.952 0.992 0.993 0.993 0.993
84	722,289 616,337 625,106 585,106 587,097 587,097 1,665,782 1,657,982 1,157,938 1,157,938 1,157,938 1,157,938 1,157,938 1,157,938	84	0.919 0.291 0.295 0.736 0.736 0.736 0.969 0.970 0.970 0.970 0.970
72	720,556 609,033 614,804 592,804 592,807 1,153,721 1,479,568 1,479,568 1,040,344	72	0.916 0.946 0.946 0.7362 0.7324 0.7324 0.5239 0.956 0.996 0.996 0.991 1.000 1.000 1.000
60	715,176 605,379 605,379 605,379 552,895 552,895 955,316 956,316 956,316 956,316 956,316 1,478,474 1,152,179 1,478,450 1,034,850 1,034,850 1,034,850 1,284,199	09	0.312 0.323 0.329 0.329 0.395 0.395 0.395 0.395 0.395 0.395 1.000 1.000 1.000 1.000
48	661,178 592,457 592,457 592,457 592,457 613,457 1,58,475 1,58,475 1,40,809 1,40,809 1,43,204 1,40,803 988,803 988,803 988,803 988,803 988,803 1,098,552 1,098,552	48	0.841 0.915 0.915 0.915 0.915 0.915 0.915 0.985 0.986 0.986 0.986 0.917 1.000 1.917
36	521,753 577,753 552,607 552,607 533,181 702,328 1274,279 953,600 1274,279 953,600 1274,279 953,600 1274,279 953,600 1274,279 953,600 1202,617 967,621 1202,617 998,672 998,677 998,677 998,677 998,677 998,677 998,677 998,677 998,677 998,677 998,677 998,677 977 978,770 9777,770 978,770 978,770 978,770 978,770 97777,770 97777,770 97777,770 97777,770 9777770 9777770 9777700 9777700000000	36	0.791 0.852 0.8874 0.8874 0.973 0.946 0.946 0.946 0.946 0.946 0.946 0.946 0.946 0.946 0.948 0.948 0.948 0.948
24	565,212 566,721 556,761 556,566 616,773 616,773 616,773 556,958 737,573 737,258 737,573 737,258 932,265 932,265 932,265 932,265 932,265 932,265 932,265 932,265 937,564 927,549	24	0.719 0.776 0.7763 0.7763 0.7763 0.7763 0.7763 0.7763 0.566 0.2668 0.7765 0.2668 0.7765 0.2668 0.7765 0.2668 0.7765 0.7765 0.2775 0.2765000000000000000000000000000000000000
12	247,026 216,397 216,397 216,397 219,961 351,395 351,393 365,55 515,792	12	0.314 0.414 0.424 0.434 0.477 0.477 0.477 0.477 0.477 0.477 0.456 0.561 0.565 0.564 0.568 0.568 0.568 0.568 0.568 0.568 0.568 0.568
Accident Period Bocinaline	7/1/2005 7/1/2004 7/1/2006 7/1/2006 7/1/2006 7/1/2006 7/1/2010 7/1/2010 7/1/2013 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015	Accident Period Beginning	7/1/2003 7/1/2004 7/1/2006 7/1/2006 7/1/2008 7/1/2008 7/1/2009 7/1/2019 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015

Oliver Wyman Actuarial Consulting, Inc.

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City of Chandler Workers Comparation Incurred Losses & ALME - Limited to \$75,000 Based on Data as of June 30, 2021

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216	786,281	216	00011
	785,		-
204	786,281 621,971	204	1.000
192	770,294 621,971 649,576 649,576	192	0.980 1.000 0.000 0.000
180	770,284 621,577 643,576 607,316 607,316	180	0.380 1000:1 1.100 999 999 999
168	757,007 6421,371 643,576 607,315 811,227 811,227	168	0, 963 000, 1 000, 1 0, 999 0, 1 0, 1 0, 1 0, 1 0, 1 0, 1 0, 1 0, 1
156	746,507 649,578 649,578 607,316 737,316 675,237 675,237	156	0.949 1.000 1.000 1.000 1.000 1.000 1.000
144	746,507 649,775 649,775 607,316 7378,50 674,560 1,305,417 1,305,417	144	0,949 0,01,1,000 9,999 0,999 0,999 0,999 0,999 0,999 0,999 0,999 0,999 0,999 0,999 0,999 0,999 0,999 0,999 0,999 0,999 0,999 0,949 0,949 0,000 0,049 0,000 0,049 0,000 0,049 0,000 0,049 0,000 0,049 0,000 0,049 0,000 0,049 0,000 0,040 0,000 0,040 0,000 0,049 0,000000
132	746,650 649,5,775 649,5,716 649,5,116 728,036 774,485 1,306,294 1,306,224 966,822	132	0.949 1.000 0.899 0.999 1.000 1.999 1.000
120	745,550 649,5,775 649,5,775 649,5,16 732,131 665,345 1,305,345 1,164,313 1,164,313	120	0,949 1,000 0,999 0,998 0,998 0,998 0,998 0,998 0,998 0,998
108	745,968 643,775 643,316 744,997 744,997 1,066,025 1,066,025 1,066,027 1,069,226 1,069,226	108	0,949 0,999 0,999 0,998 0,998 1,000 1,000 1,000 1,000
96	745,968 645,980 645,980 645,980 665,025 966,023 966,023 966,023 1,163,922 1,163,292 1,163,292 1,163,292 1,163,292	96	0.949 1.055 0.0885 0.0885 0.0985 0.097 0.095 0.995 0.995
84	746,126 643,029 643,033 688,033 685,025 965,025 1,152,392 1,152,392 1,152,392 1,152,392 1,152,392 1,152,392 1,152,392 1,152,395 1,295,356	84	0.949 0.1072 0.1017 0.1017 0.1017 0.985 0.985 0.995 0.995 0.991
72	744,414 643,810 645,385 645,385 655,385 655,385 655,385 655,385 1,275,301 965,329 1,083,675 1,486,217 1,486,217 1,486,217 1,090,362	72	0.947 0.1053 0.1012 0.1012 0.1012 0.1012 0.1012 0.1012 0.1010 0.1010 0.1010
60	753,179 654,077 654,077 645,108 661,761 642,616 966,774 1,158,747 1,58,747 1,58,747 1,58,747 1,58,747 1,58,747 1,58,747 1,58,747 1,58,747 1,690,522 1,090,522 1,090,522 1,090,522 1,090,522 1,264,190	60	0.368 0.396 0.396 0.407 0.413 0.413 0.413 0.413 0.425 0.425 0.425 0.425 0.425 0.425 0.4260 0.42600 0.42600000000000000000000000000000000000
48	716,149 655,312 655,312 655,312 655,312 655,706 643,407 643,407 1,643,412 1,264,497 1,480,078 1,050,0781,050,078 1,	48	0.311 0.53 1.053 1.054 1.024 0.355 0.355 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395
36	658,303 613,104 613,104 771,226 654,659 1,317,206 971,204 1,151,669 1,478,594 1,6168 1,478,594 1,165,387 1,086,387 1,165,3871,165,387 1,165,387 1,165,3871,165,387 1,165,3871,165,387 1,165,387 1,165,3871,165,387 1,165,387 1,165,3871,165,387 1,165,387 1,165,3871,165,387 1,165,387 1,165,3871,165,387 1,165,3871,165,387 1,165,3871,165,387 1,165,3871,165,387 1,165,3871,165,387 1,165,3871,165,387 1,165,3871,165,387 1,165,3871,165,387 1,165,3871,165,387 1,165,3871,165,387 1,165,3871,165,387 1,165,3871,165,387 1,165,3871,165,387 1,165,3871,165,387 1,165,3871,165,387 1,165,3871,165,387 1,165,3871,165,387 1,165,3871,165,3871,165,3871,165,387 1,165,3871,165,3871	36	0.837 0.944 0.944 0.946 0.950 0.950 0.959 0.959 0.955 0.955 0.955 0.955 0.955 0.955 0.955 0.955 0.955
24	615,533 565,416 565,416 572,351 736,617 695,617 1,586,617 1,586,617 1,586,617 1,586,763 1,158,045,0451,158,045,045,045,045,045,045,045,045,045,045	24	0.783 0.878 0.878 0.958 0.958 0.958 0.958 0.999 0.999 0.999 0.973 0.973 0.973 0.973 0.973 0.973 0.973 0.973 0.973 0.973 0.973 0.975 0.975 0.975 0.976 0.976 0.977 0.070 0.077 0.070 0.077 0.0700 0.0700 0.0700 0.0700000000
12	405,319 2438,092 2438,092 2438,092 581,135 581,135 581,135 581,135 1,113,010 1,113,010 1,113,010 1,113,010 1,113,010 1,113,010 1,113,010 1,111,0,000 1,111,0,000 1,001,1227 718,1200 812,003 8	5	0.515 0.337 0.358 0.358 0.2588 0.2588 0.2588 0.2728 0.514 1.0728 0.514 1.0728 0.552 0.552 0.552 0.7728 0.7568 0.5566 0.7568 0.7768 0.7776 0.7776 0.77780 0.77780 0.77780000000000
Accident Period	FIGURA FIGURA 7/12004 7/12004 7/12005 7/12005 7/12005 7/12015 7/12015 7/12015 7/12016 7/12016 7/12016 7/12016 7/12016 7/12016 7/12016 7/12016	Accident Period	7/1/2004 7/1/2004 7/1/2005 7/1/2006 7/1/2006 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016

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City of Chandler Worker Comparation Rate of Paid Losses & A.LRE to Exposure (\$1,000 Payroll) - Limited to \$75,000 Based on Data as of June 30, 2021

216	775,091	216	6.3
204	774,870 621,971	204	9.37 7.35
192	629,033 629,576 649,576	192	906 7.35 7.20
180	621,975 621,971 649,576 587,801	180	8.95 7.23 5.71 5.71
168	226,975 621,971 649,576 587,789 695,966 695,966	168	8.78 7.235 5.71 6.23
156	22,655 621,775 649,576 682,716 682,715 675,237 675,237	156	8.78 5.46 5.19 5.60 5.60 5.60
144	621,775 621,775 649,576 689,940 688,940 674,560 1,299,626	144	8.78 7.234 5.66 5.15 5.55 0.85
132	725.697 629.576 649.576 674.485 674.485 1,300.357 966.822 966.822	132	8.78 7.204 5.65 5.65 7.208 7.208 8.08 8.08 8.49 8.49
120	225,637 621,775 649,576 673,544 673,544 645,027 966,762 966,762 1,160,847	120	8.78 7.204 5.65 5.65 5.35 6.03 8.48 8.4.85 10.51
108	722,300 621,277 640,277 6581,340 6581,716 658,716 644,726 946,776 1,301,130 1,301,130 1,301,130 1,301,130 1,059,226 1,059,226	108	8.74 7.134 5.56 5.56 5.59 5.59 10.58 8.49 8.49 8.49 8.98 8.98
96	722.205 621.775 622.347 632.245 643.023 643.023 1.158.854 1.158.827 1.158.827 1.158.255 1.1482.601	96	8.73 5.52 5.52 5.52 5.53 5.53 5.53 1.34 8.68 1.055 1.2.85 1.2.85 1.2.85
84	722,259 612,357 622,357 622,319 585,105 643,015 643,015 643,015 1,557,058 1,157,058 1,157,058 1,157,058 1,157,058 1,157,058 1,157,058 1,157,058 1,157,058 1,157,058 1,157,058 1,177,058 1,177,058 1,177,058 1,177,058 1,177,058 1,177,058 1,177,058 1,177,058 1,177,058 1,177,058 1,177,058 1,177,058 1,177,058 1,177,058 1,177,058 1,177,058 1,175,058 1,075,0581,075,058 1,075,0581,075,058 1,075,058 1,075,0581,	84	8.74 6.728 5.569 5.535 5.535 5.535 5.535 6.728 8.459 8.459 8.459 8.239 8.239
72	720,556 619,033 614,800 588,800 588,800 588,800 588,800 588,527 1,268,743 1,53,721 1,53,721 1,53,721 1,53,721 1,53,721 1,153,721 1,153,723 1,479,344 1,040,344	72	8.71 6.7.19 7.8.8 7.8.8 8.6.8 8.45 8.45 8.12 8.23 8.23 8.23 8.23 8.23 8.23 8.23 8.2
60	715,176 605,379 605,379 605,379 605,379 611,609 1,268,371 1,52,179 1,52,279 1,52,279 1,52,279 1,52,279 1,758,801 1,028,190 1,264,190	60	8.65 7.15 5.33 5.33 5.33 8.68 8.45 7.05 8.45 8.45 8.45 8.45 8.25 8.23 8.23 8.23 8.23 8.23 8.23 8.23 8.23
84	661,178 592,457 592,457 592,457 552,186 645,614 1,258,475 1,258,475 1,268,475 1,268,475 1,413,803 81,1280 81,1280 1,433,603 998,803 998,803 998,552 1,098,552	84	8.00 6.50 6.53 6.53 6.53 6.53 7.53 7.53 7.53 7.53 7.53 7.23 7.23 7.23 7.23 7.23 7.23 7.23 7.2
36	621,763 577,418 552,617 552,617 552,617 552,617 1,274,223 1,274,279 1,274,279 1,275,277 1,275,273 1,275,274 938,164 938,164 938,164 938,164 938,164 947,821 1,205,270 947,821	36	7.52 6.18 6.18 5.16 5.16 5.16 10.08 10.08 10.03 8.03 8.23 8.23 8.23 8.23 8.23 8.23 8.23
24	566.212 586.212 506.701 506.806 616.773 616.773 1.2868.270 1.288.270 922.724 922.724 922.7549 922.7549 922.7549 922.7549	24	6.84 5.634 5.634 5.52 5.52 5.52 5.52 7.56 9.45 10:14 7.76 7.76 7.76 6.13 7.76 6.13 7.76 6.13 7.76 6.13 7.76 6.13 7.76 6.13
12	247,026 276,387 206,387 209,287 351,383 351,383 351,394 567,194 567,194 567,194 567,194 567,394 567,394 567,394 567,394 567,395 567,395 567,395 563,288 517,958 513,953 513,9555 513,95555 513,955555 513,955555555555555555555555555555555555	12	2.99 2.29 2.27 2.27 2.27 2.27 2.27 2.27
Accident Period Beginning	7/1/2005 7/1/2004 7/1/2006 7/1/2006 7/1/2006 7/1/2016 1/1/2013 1/1/2013 1/1/2013 1/1/2013 1/1/2013 7/1/2019 7/1/2019	Accident Period	7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2009 7/1/2019 7/1/2019 7/1/2019 7/1/2019 7/1/2019

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City of Chandler Workers: Compensation Rate of Incurred Losses & ALAE to Exposure (\$1,000 Payroll) - Limited to \$75,000 Based on Data as of June 30, 2021

216	786,281	216	9.51
204	766.281 621,971	204	9.51
192	170294 621,371 649,376	192	932 7.25 7.25
180	170 294 521 371 649,376 607,316 607,316	180	9.32 7.23 5.90 5.90
168	257,007 221,571 649,576 607,316 811,227 811,227	168	9.16 7.235 7.260 7.260 7.260
156	746,507 221,775 649,576 607,316 675,237 675,237 675,237	156	9.03 7.23 5.59 5.50 5.50 5.50
144	746,507 221,775 649,576 737,820 674,550 1,305,417 1,305,417	144	9.03 7.72 6.59 6.59 5.59 10.90
132	746,550 231,775 649,577 649,376 728,026 728,026 1,306,294 966,822 966,822	132	9.03 7.7.24 7.7.29 6.5.5 7.5.56 7.5.56 7.5.56 7.5.56 7.5 7.5 8.40 8.40 8.40
120	746,550 621,575 649,576 649,376 732,131 665,343 1,306,964 1,306,964 1,64,313 1,164,313	120	9.03 7.24 7.25 6.55 6.55 1.55 1.55 1.55 1.55 1.55
108	745,988 643,952 643,957 647,316 747,316 665,025 665,025 1,164,307 1,069,226 1,069,226	108	2.02 2.02 2.03 2.03 2.03 2.03 2.03 2.03
96	745,968 655,980 643,980 647,954 718,7254 718,725 665,025 1,665,025 1,665,025 1,663,255 1,163,392 1,163,255 1,683,226 1,483,450	96	7.75 7.75 7.75 7.75 7.75 5.55 5.55 7.55 8.89 8.89 8.89 8.89 8.89 2.86 2.86
84	746,126 664,029 663,033 6918,033 665,033 665,033 965,750 965,752 1,473,550 990,732 990,329	84	9.02 7.17 7.14 6.50 6.55 6.55 8.65 8.75 8.75 8.75 8.72 8.72 8.72 8.72 8.72
72	744,414 643,721 643,721 645,385 665,025 665,025 965,021 985,5,001 986,025 1,155,992 1,155,992 1,155,992 1,155,992 1,155,992 1,090,362 1,090,362	2	9.00 7.173 5.51 5.51 10.55 10.55 8.55 8.23 8.55 8.55
60	753,179 643,107 642,108 661,701 642,516 642,516 1,278,229 966,777 1,481,735 1,481,735 1,481,735 1,481,735 1,264,190	99	9.11 7.17 7.17 7.17 7.17 7.17 7.17 7.17
84	716,149 655,308 655,308 655,308 655,308 655,308 655,308 643,407 1,278,497 1,278,497 1,480,078 1,080,753 1,090,753 1,000,753 1,	48	8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.8 8.8
36	658,303 658,433 613,104 613,104 771,326 977,326 977,234 1,476,5641,476,564 1,476,564 1,476,564 1,476,564 1,476,564 1,476,564 1,476,564 1,476,564 1,476,564 1,476,5641,476,564 1,476,564 1,476,564 1,476,564 1,476,5641,476,564 1,476,5641,476,564 1,476,564 1,476,5641,476,564 1,476,564 1,476,564	36	7.96 6.80 6.80 6.92 6.92 8.53 8.53 8.53 8.53 8.53 8.53 8.53 8.53
24	615,533 556,668 555,468 555,468 555,468 555,468 572,351 752,351 752,351 1,382,452 1,384,432 1,384,432 1,384,432 1,583,783 1,582,837 1,583,783 1,087,234 1,0242,791 1,2243,791 1,2323,795 1,232,795 1,232,791 1,232,232,232 1,232,232,232,232 1,232,232,232,232,232,232,232	24	7,44 7,47 8,55 8,55 8,55 8,55 8,57 8,52 8,57 8,57 8,57 8,57 8,57 8,57 8,57 8,57
12	405,319 433,092 2433,092 2433,092 2433,092 581,135 606,357 606,357 610,357 1113,010 1113,010 1113,010 1113,010 1113,010 1113,010 1113,010 1113,010 1113,010 1113,010 1111,00,000 11,110,000 11,0000 11,00000 11,0000 11,00000000	12	8,4,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,
Accident	нита вединат 7/1/2004 7/1/2005 7/1/2005 7/1/2005 7/1/2014 7/1/2015 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016	Accident Period	7412003 7412003 7412005 7412006 7412006 7412008 7412010 7412010 7412015 7412015 7412015 7412015 7412015 7412016 7412018 7412018 7412018 7412018 7412018

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Appendix A	Page 9
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City of Chandler Workers: Compensator Vorkers: Compensator Closed Claim Counts - Excluding Closed Claim Counts - Excluding Based on Data as of June 30, 2021

216	148	216	0 66° 0
204	148 143	204	0.993
192	148 145 146	192	1 000 0 0993 0.993 0.993
180	148 145 145 134	180	1 000 0.993 0.985 0.993
168	148 145 134 134 134	168	0.090 1.086 0.983 0.981 0.981
156	148 145 154 153 153 163	156	0.993 1.900 0.983 0.988 0.988 0.988
441	148 145 154 153 153 153	144	0.993 1.900 0.988 0.988 0.988 0.988 0.988 0.988
132	8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	132	0.993 1.000 0.993 0.988 0.988 0.988 0.993 0.993
120	148 148 161 161 161 161 161	120	0.993 1.000 0.985 0.986 0.976 0.977 0.977 0.977
108	148 145 156 157 157 157	108	0.993 1.900 0.985 0.985 0.976 0.976 0.977 0.975 0.9777 0.9777 0.9777 0.9777 0.9777 0.9777 0.9777 0.9777 0.9777 0.9777 0.97777 0.97777 0.97777 0.97777 0.97777 0.977777 0.97777 0.977777 0.977777 0.97777777777
96	841 144 155 155 155 155 155 155 155 155 1	96	0.393 0.995 0.995 0.955 0.977 0.977 0.977 0.958 0.958 0.958 0.958
84	747 747 751 751 751 755 755 747 747 747 747 747 747 747 747	84	0.387 0.938 0.939 0.947 0.947 0.947 0.9450
72	146 141 141 151 151 151 155 148 148 149 149	72	0.980 0.975 0.975 0.975 0.975 0.985
60	145 146 146 153 153 153 154 147 147 128 128 128 128 128 128 128 128 128 128	60	0.973 0.9979 0.9985 0.99950 0.99950 0.99950 0.99950 0.99950 0.999500 0.99950000000000
48	145 145 145 145 145 153 153 145 147 147 147 147 147 147 147 147 147 147	48	0.973 0.978 0.957 0.957 0.957 0.957 0.956 0.942 0.945 0.942 0.945 0.956 0.957 0.956 0.957 0.956 0.957 0.956 0.056 0.956 0.0560 0.0560 0.0560 0.0560 0.0560 0.0560 0.0560 0.0560 0.0560 0.0560 00
36	146 143 153 153 155 155 155 155 155 155 155 15	36	0.380 0.972 0.956 0.956 0.956 0.956 0.956 0.954 0.974 0.974 0.975 0.975 0.955 0.955 0.946 0.946 0.945
24	130 142 142 142 142 142 142 142 142 142 142	24	0.872 0.965 0.965 0.979 0.979 0.925 0.935 0.935 0.9882 0.9882 0.9867 0.9867 0.9867 0.887 0.9867 0.887 0.9867
12	72 117 117 117 117 117 117 117 117 117 1	5	0.617 0.531 0.753 0.758 0.689 0.758 0.778 0.778 0.778 0.778 0.778 0.423 0.423 0.434 0.434 0.434 0.435 0.435 0.435 0.534 0.535 0.535
Accident	7/1/2004 7/1/2004 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2001 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015	Accident Period Bocining	7112004 7112004 7112005 7112005 7112005 7112005 7112005 7112015 7112015 7112015 7112015 7112015 7112015 7112015 7112015 7112015 7112015

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	216		216	00001
	204	149 143	204	1000 1000.1
	192	140 141 143	192	1 800 1 2 000 1 0 0000 1 0 0000 1 0 00000000
	180	149 144 135 135	180	000, t 0000, t 0000, t 0000, t 0000, t
	168	641 1445 1655 1651 1651	168	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
	156	149 1435 1651 1651 1651	156	
ents	144	149 147 155 165 165 165 165	144	
Without Paym	132	149 147 135 165 153 153 153	132	80 00 00 00 00 00 00 00 00 00
Workers' Compensation Reported Claim Counts - Voltimate Claim Counts - Excluding Closed Without Payments Based on Data as of June 30, 2021	120	149 143 144 153 153 153 153	120	200 100 100 100 100 100 100 100
rs' Compensati m Counts - Exe ata as of June	108	151 143 145 165 165 165 165 165 165	108	
Worke / Ultimate Clai Based on D	96	149 147 148 158 151 153 155 155 155	96	1,000 1,0000 1,0000 1,0000 1,0000 1,00000000
d Claim Counts	84	145 155 155 155 155 155 155 155 155 155	84	0001 0002 00000 0000 0000 0000 0000 0000 0000 0000 0000
Reporte	72	148 147 147 158 158 158 158 158 158 158 158 158 158	72	1,000 1,0000 1,0000 1,0000 1,00000000
	60	148 147 147 148 148 148 148 148 148 148 148 148 148	60	1,000 1,0000 1,0000 1,0000 1,0000 1,00000000
	48	148 147 147 135 135 144 147 148 148 143 135 135 135 133 133 148	84	1,000 1,0000 1,0000 1,0000 1,00000000
	36	148 147 147 147 147 147 147 147 147 147 147	36	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
	24	1 150 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24	1,007 1,000 1,000 1,000 1,000 1,000 0,9080
	5	145 155 154 154 154 154 154 157 157 157 157 157 158 155 157 158 155 157 158 158 158 158 158 158 158 158 158 158	12	0,960 0,944 0,944 0,947 0,948 0,986 0,948 0,948 0,948 0,891 0,891 0,889
	Accident Period	Regiming 7/1/2003 7/1/2003 7/1/2005 7/1/2005 7/1/2005 7/1/2013 7/1/2013 7/1/2013 7/1/2013 7/1/2013 7/1/2013 7/1/2013 7/1/2013 7/1/2013 7/1/2013 7/1/2013 7/1/2013	Accident Period	7/1/2004 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2015 7/1/2015 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016

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Oliver Wyman Actuarial Consulting, Inc.

216	149	216	1.302
204	149	204	1.802
192	149 143 147	192	1.639 1.630 1.631
180	149 143 135	180	1.802 1.530 1.512 1.312
168	44 143 135 161	168	1.802 1.530 1.511 1.411 1.411
156	149 1435 1651 1651 1651 1651	156	1.802 1.650 1.4312 1.441 1.367 1.367
41	149 143 135 165 165 142	144	1,802 1,530 1,431 1,431 1,185 1,185 1,185
132	149 143 135 165 165 153 153	132	1,802 1,509 1,511 1,411 1,1367 1,1365 1,1365 1,1365 1,1365
120	149 143 135 135 142 154 151	120	1,802 1,1550 1,141 1,1355 1,1355 1,1355 1,1355 1,1355 1,1355 1,458
108	151 143 145 135 166 165 153 153 153	108	1 826 1 1530 1 530 1 541 1 1367 1 1367 1 1458 1 1458 1 1458 1 1458
96	149 143 143 143 150 160 153 153 153 153 153 153	96	1,802 1,807 1,1367 1,1364 1,1364 1,1368 1,1368 1,1368 1,1368 1,1368 1,1368
84	148 143 155 155 155 155 154 154 154 154 154 154	84	1,802 1,515 1,712 1,734 1,734 1,735 1,135 1,135 1,135 1,135 1,135
72	148 147 148 158 158 158 158 158 158 158 158 158 15	22	1,802 1,657 1,555 1,255 1,255 1,255 1,135
60	149 142 155 154 155 155 155 155 155 155 155 155	60	1,802 1,637 1,637 1,545 1,2567 1,2567 1,1365 1,134 1,136 1,1365 1,1365 1,1365
89	149 147 147 147 144 144 148 148 148 148 148 148	48	1.802 1.657 1.657 1.657 1.467 1.467 1.246 1.335 1.135 1.135 1.135 1.135 1.116
se Se	748 777 777 758 758 754 754 754 754 754 754 755 754 755 754 755 755	36	1,602 1,677 1,677 1,677 1,677 1,677 1,678 1,135 1,14588 1,14588 1,14588 1,145888 1,14588888888888888888888888888888888888
74	150 1447 1447 155 155 155 155 155 155 155 155 155 15	24	1,814 1,585 1,532 1,532 1,535 1,535 1,535 1,535 1,535 1,135
5	143 135 135 154 154 167 167 138 148 1338 148 1338 148 1338 148 128 128 128 128	12	1.729 1.729 1.3594 1.359 1.359 1.359 1.359 1.359 1.356 1.355 1.355 1.355 1.355 1.370 0.973 0.973 0.974 0.974 0.974
\ccident Derind	Beginning 11(2003 11(2005 11(2005 11(2005 11(2005 11(2015 11(2013) 11(2013 11(2013) 11(2013 11(2013) 11(20	Accident	7/1/2006 7/1/2006 7/1/2006 7/1/2006 7/1/2009 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2015 7/1/2016 7/1/2016

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Oliver Wyman Actuarial Consulting, Inc.

> City of Chandler Vorkers comparation Paid Losses & ALAE /Incirred Losses & ALAE - Limited to \$75,000 Based on Data is so f June 30, 2021

0318 0.944 0.323 0.950 0.956 0.968 0.968 0.968 0.972 0.572 0.572 0.572 0.572 0.572 0.572 0.572 0.560 0.372 0.365		24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216
0307 0304 0325 0330 0342 0440 1000	1	0 918	0 944	0.923	0.950	0.968	0.968	0.968	0.968	0.972	0.972	0.972	0.972	0.959	0.960	0.972	0.985	0.986
0.901 0.394 0.393 0.365 0.367 0.367 0.301 1.000		109.0	706.0	0.904	0.925	0.930	0.942	0.948	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
0.872 0.881 0.961 0.953 0.958 <td< td=""><td></td><td>0.895</td><td>0.901</td><td>0.894</td><td>0.939</td><td>0.955</td><td>0.966</td><td>0.977</td><td>0.987</td><td>1.000</td><td>1.000</td><td>1.000</td><td>1.000</td><td>1.000</td><td>1.000</td><td>1.000</td><td></td><td></td></td<>		0.895	0.901	0.894	0.939	0.955	0.966	0.977	0.987	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
0.911 0.227 0.900 0.844 0.885 0.884 0.834 0.933 0.931 0.933 0.957 0.667 0.867 0.865 0.865 0.865 0.933 0.931 0.933 0.957 0.961 0.957 0.965 0.965 0.965 0.965 0.995 </td <td></td> <td>0.811</td> <td>0.872</td> <td>0.881</td> <td>0.897</td> <td>0.950</td> <td>0.947</td> <td>0.953</td> <td>0.958</td> <td>0.958</td> <td>0.958</td> <td>0.958</td> <td>0.959</td> <td>0.968</td> <td>0.968</td> <td></td> <td></td> <td></td>		0.811	0.872	0.881	0.897	0.950	0.947	0.953	0.958	0.958	0.958	0.958	0.959	0.968	0.968			
0.051 0.961 0.962 0.943 0.967 0.963 1.000 1.000 0.967 0.984 0.993 0.994 0.995 0.994 0.905 0.967 0.984 0.995 0.991 0.995 0.995 0.995 0.957 0.984 0.993 1.000 1.000 1.000 1.000 0.977 0.986 0.994 1.000 1.000 1.000 1.000 0.977 0.985 0.991 0.995 0.995 0.995 0.995 0.977 0.985 0.991 0.995 1.000 1.000 1.000 0.986 0.991 0.995 1.000 1.000 1.000 1.000 0.986 0.991 0.995 1.000 1.000 0.995 0.995 0.986 0.994 0.900 0.995 1.000 1.000 0.995 0.986 0.994 0.906 0.995 0.995 0.995 0.995 0.987 0.907 1.000 0.999 0.995 0.995 0.995 0.987 0.997 0.996 0.995 0.995 0.995 0.995 0.987 0.997 0.996 0.996 0.995		0.837	0.911	0.927	0,900	0.908	0.854	0.885	0.884	0.920	0.933	0.931	0.938	0.858				
0.967 0.994 0.995 <td< td=""><td></td><td>0.875</td><td>0.951</td><td>0.961</td><td>0.952</td><td>0.943</td><td>0.967</td><td>0.967</td><td>0.969</td><td>0.969</td><td>1.000</td><td>1.000</td><td>1.000</td><td></td><td></td><td></td><td></td><td></td></td<>		0.875	0.951	0.961	0.952	0.943	0.967	0.967	0.969	0.969	1.000	1.000	1.000					
0.382 0.384 1.000 0.395 1.000 1.000 1.000 0.367 0.394 0.394 0.394 0.395 0.395 0.397 0.377 0.395 0.391 0.395 0.395 0.396 0.397 0.377 0.393 0.391 0.395 1.000 1.000 1.000 0.387 0.391 0.395 1.000 1.000 1.000 1.000 0.381 0.391 1.000 1.000 1.000 0.393 0.394 0.386 0.391 1.000 1.000 1.000 0.393 0.394 0.386 0.394 0.364 0.364 0.394 0.394 0.386 0.394 0.364 0.394 0.394 0.394 0.386 0.394 0.364 0.394 0.394 0.394 0.385 0.364 0.364 0.364 0.394 0.394 0.386 0.384 0.364 0.364 0.364 0.364		0.916	0.967	0.984	0.993	0.995	0.991	0.995	0.996	0.995	0.995	0.996						
0.961 0.960 0.994 0.995 0.957 <td< td=""><td></td><td>0.936</td><td>0.982</td><td>0.994</td><td>1.000</td><td>666.0</td><td>1.000</td><td>1.000</td><td>1.000</td><td>1.000</td><td>1.000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		0.936	0.982	0.994	1.000	666.0	1.000	1.000	1.000	1.000	1.000							
0.877 0.563 0.311 0.961 0.2955 1.000 1 0.862 0.369 0.391 0.2955 1.000 0.399 0.380 0.391 1.000 1.000 1.000 0.399 0.945 0.343 0.349 0.354 1.000 0.395 0.358 1.000 1.000 0.354 0.357 0.357 0.357 0.357		0.900	0.961	0.980	0.994	0.991	0.995	0.996	0.996	766.0								
0.462 0.569 0.391 0.595 1.000 0. 0.346 0.391 1.000 1.000 1.000 0.345 0.345 0.343 0.349 0.344 0.356 0.357 1.000 1.000 0.354 0.357 0.357 0.357		0.750	0.877	0.969	0.911	0.961	0.995	1.000	1.000									
0.980 0.991 1.000 1.000 0.948 0.948 0.954 0.948 0.954 0.954 0.954 0.954 0.954 0.954 0.954 0.954 0.954 0.954 0.954 0.954 0.954 0.957		0.761	0.962	0.969	0.991	0.995	1.000	0,999										
0.945 0.943 0.949 0.948 0.948 0.958 0.957 0.000 1.000 0.955 0.957 0.957 0.977 0.031		606.0	0.980	0.991	1.000	1.000	1.000											
0.358 1.000 0.356 0.357 0.877		0.846	0.945	0,943	0.949	0.954												
0.956 0.877		0.795	0.958	1.000	1.000													
		0.903	0.956	0.957														
0.882		0.771	0.877															
		0.892																

Oliver Wyman Actuarial Consulting, Inc.

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> City of Chandler Worker Componsator Componsator Closed Claim Counts / Reported Claim Counts - Excluding Closed Without Payments Based on Data as of June 30, 2021

Accident																		
Period Beginning	5	24	36	8 4	60	72	84	96	108	120	132	14	156	168	180	192	204	216
7/1/2003	0.643	0.867	0,980	0.973	0.973	0.980	0.987	0.993	0.980	0.993	0.993	0.993	0.993	0.993	0.993	0.993	0.993	0.993
7/1/2004	0.563	0.979	0.979	0.979	0.986	0,986	0.986	0.986	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
7/1/2005	0.975	0.980	0.980	0.986	0.993	0.993	0.942	0.993	0,986	0.986	0.986	0.986	0.986	0.986	0.986	0.993		
7/1/2006	0.894	0.919	0.956	0.978	0.985	0.950	0.985	0.985	0.985	0.985	0.993	0.993	0.993	0.993	0.993			
7/1/2007	0.688	0.937	0.956	0.963	0.916	0.981	0.969	0.969	0.969	0.981	0.988	0.988	0.988	0.981				
7/1/2008	0.707	0.939	0.958	0.893	0.982	0.976	0.976	0.976	0.976	0.982	0.988	0.988	0.988					
7/1/2009	0.736	0.875	0.857	0.965	0.958	0.972	0.965	0.965	0.979	0.972	0.979	0.979						
7/1/2010	0,682	0.820	0.974	0.987	0.987	0.981	0.987	0.987	0.987	0.987	0.993							
7/1/2011	0.557	0.882	0.944	0.950	0.963	0.969	0.969	0.969	0.975	0.975								
7/1/2012	0.555	0.812	0.888	0.956	0.956	0.956	0.963	0.970	0.970									
7/1/2013	0.425	0.727	0.903	0.942	0.955	0.961	0.968	0.968										
7/1/2014	0.449	0.871	0.930	0.979	0.986	0.986	0.986											
7/1/2015	0.460	0,908	0.967	0.961	0.967	0.974												
7/1/2016	0.448	0.824	0.932	0.947	0.962													
7/1/2017	0.655	0,860	0.940	0.966														
7/1/2018	0.648	0.862	0.911															
7/1/2019	0.627	0.844																
7/1/2020	0.570																	

Oliver Wyman Actuarial Consulting, Inc.

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> City of Chandler Workers: Compensation Average Paid Losses & ALAE - Limited to \$75,000 Based on Data as of June 30, 2021

Accident						ł	:	:		ų			Ę			101	100	740
Period	12	54	36	48	60	72	84	96	108	120	132	144	156	168	180	761	204	91.7
Beginning																		
7/1/2003	2.685	4,348	4,259	4,560	4,932	4,935	4,913	4,880	4,880	4,903	4,903	4,903	4,903	4,905	4,998	5,061	9,236	167.6
7/1/2004	3,637	3.890	4,154	4,262	4,324	4,350	4,371	4,410	4,348	4,348	4,348	4,348	4,348	4,349	4,349	4,349	4,349	
7/1/2005	1.715	3.514	3,838	4.102	4,135	4,210	4,262	4,311	4,415	4,480	4,480	4,480	4,480	4,480	4,480	4,449		
7/1/2006	2.250	3.743	4,118	4,183	4,157	4,430	4,399	4,349	4,375	4,375	4,344	4,344	4,345	4,386	4,387			
7/1/2007	3,314	4.139	4,590	4,192	3,894	3,795	3,858	4,105	4,223	4,263	4,272	4,320	4,351	4,405				
7/1/2008	2.776	3,927	3,917	3,914	3,775	3,896	3,994	3,994	4,005	4,006	4,138	4,138	4,143					
7/1/2009	7.844	10,066	10,113	9,054	9,198	9,060	9,128	9,418	9,361	9,419	9,355	9,350						
7/1/2010	6,605	7,067	6,400	6,334	6,402	6,403	6,403	6,403	6,403	6,403	6,361							
7/1/2011	7,060	7,340	7,284	7,456	7,433	7,396	7,423	7,428	7,388	7,394								
7/1/2012	4,343	6,826	7,162	6,676	6,971	7,734	7,977	8,162	8,162									
7/1/2013	8,319	10,443	10,233	9,887	10,060	966'6	9,930	9,950										
7/1/2014	8,997	7,605	7,486	7,063	7,024	7,024	7,024											
7/1/2015	6,646	6,498	6,748	6,801	6,992	6,982												
7/1/2016	8,873	9,194	9,798	10,033	9,876													
7/1/2017	6,350	8,623	7,788	7,630														
7/1/2018	5,510	6,074	6,581															
7/1/2019	6,506	7,480																
7/1/2020	8,073																	

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City of Chandler Workers Compansation Average Incurred Losses & ALAE - Limited to 375,000 & Excluding Closed Without Payments Based on Data as of June 30, 2021

216	5.277
204	5,277 4,349
192	5,170 4,349 4,419 4,419
180	6 3.470 6 4.49 6 4.49 6 4.499
168	4.081 4.349 4.419 5.039 5.039
156	8, 3.45 8, 3.48 4, 4, 499 4, 5, 8, 99 4, 092 4, 092
144	4,248 4,419 4,419 4,583 4,583 9,193 9,193
132	4,248 4,249 4,549 4,549 9,109 9,109 6,319 6,319
120	4,2418 4,419 4,419 4,548 4,548 9,107 7,232 6,319 6,319 7,232
108	4,940 4,415 4,415 4,627 4,627 9,108 9,108 6,319 7,7,232 7,7,232
96	4,506 4,507 4,587 4,492 4,482 9,133 9,133 9,133 9,133 9,533 9,533
84	4,570 4,574 4,155 4,155 4,377 4,378 8,893 8,893 7,7230 7,72000 7,72000 7,720000000000
72	4,596 4,611 4,512 4,380 4,100 4,100 8,885 8,885 7,539 7,539 7,530 7,500 7,5300 7,500
80	4,611 4,611 4,373 3,965 3,965 8,887 8,887 8,885 8,887 7,319 7,319 7,319 7,319 7,319 7,319 7,319 7,319 7,319 7,319 7,319 7,319 7,319 7,319 7,310 7,319 7,310 7,319 7,310 7,310 7,310 7,310 7,310 7,310 7,310 7,310 7,310 7,310 7,310 7,310 7,310 7,310 8,80 8,80 8,80 8,80 8,80 8,80 8,80 8,
8	4,806 4,526 4,526 4,525 4,525 4,525 8,880 8,880 6,523 6,523 6,523 6,576 6,976 6,976 6,976 6,976 6,976 6,976 6,976 6,976 7,706
36	4,418 4,417 4,171 4,171 4,821 4,821 4,821 8,941 7,155 7,251 7,155 7,1757
24	4,104 4,277 4,573 4,573 4,573 4,573 4,573 9,574 7,193 7,193 7,193 7,193 7,193 7,193 7,193 7,193 7,193 7,290 8,276 8,276 8,276 8,276 7,707 6,786
5	3,2334 3,2334 1,822 3,839 3,839 3,839 3,839 3,839 5,535 6,553 7,545 7,545 7,545 6,553 7,545 7,54
Accident Period Beginning	7/12003 7/17 2005 7/17 2005 7/17 2005 7/12 2005 7/12 2005 7/12 2015 7/17 2015 7/10 2015 7/10 200 200 2015 7/10 200 200 200 200 200 200 200 200 200 2

Oliver Wyman Actuarial Consulting, Inc.

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> City of Chandler Workers' Compensation Average Open - Limited to \$75,000 Based on Data as of June 30, 2021

216	1,10
204	11,412
192	2.21
180	30,539 19,515 19,515
168	31,133 0 19,527 38,420
156	20,852 0 25,140 23,037 23,037 0
144	20,852 0 25,246 25,440 1,931 1,931
132	20,852 0 25,254 24,11 1,979 1,979 1,979
120	20,852 0 12,734 19,542 6,772 1,551 1,551 857 857
108	7,889 4,376 12,258 5,075 5,075 1,650 1,094 1,094
96	23,763 11,103 14,581 14,522 16,452 16,452 16,452 11,033 1,033 170
84	11,229 18,836 16,464 16,464 10,367 5,502 2,354 2,354 1,211 1,030 1,030 1,030
72	7,353 29,165 29,165 24,369 24,369 24,59 1,716 1,717 1,716 1,717 1,716 1,717 1,716 1,717 1,717 1,716 1,717 1,
60	9,501 24,564 39,231 110,335 1,486 1,486 1,486 1,486 1,486 1,486 1,487 1,807 1,109 1,109 1,100 1,100
48	13.743 24.880 24.840 24.547 1.313 1.313 1.313 2.4051 2.817 2.817 2.9177 2.917 2.917 2.917 2.917 2.917 2.917 2.917
36	12,180 120,167 20,166 12,994 12,994 1,577 2,049 4,474 2,049 2,049 3,745 3,745 3,745 3,745 3,745 5,8000 5,800 5,800 5,800 5,800 5,800
24	2,516 19,877 19,847 19,842 11,984 8,891 11,984 6,093 9,603 9,603 9,603 9,603 11,713 11,713 11,715 11
12	3,104 3,104 5,997 13,442 5,955 5,925 5,925 5,925 6,168 6,168 6,168 6,168 6,168 6,168 6,168 6,168 6,168 6,130 11,1979 6,130 6,130 11,1979 6,136 6,136 7,755 11,1979 6,136 6,136 7,755 11,1979 13,555 13,555 13,555 13,555 13,555 13,555 13,555 13,555 13,555 13,555 13,555 13,555 13,555 13,555 13,555 13,555 13,555 13,555 13,555 14,255 15,5555 15,555 15,555 15,555 15,555 15,5555 15,5555 15,5555 15,5555 15,5555 15,5555 15,5555 15,5555 15,5555 15,5555 15,5555 15,5555 15,5555 15,55555 15,55555 15,55555 15,555555 15,55555555
Accident Period Becinning	7/1/2003 7/1/2004 7/1/2004 7/1/2008 7/1/2008 7/1/2008 7/1/2013 7/1/2013 7/1/2013 7/1/2013 7/1/2013 7/1/2013 7/1/2013 7/1/2013

Oliver Wyman Actuarial Consulting, Inc.

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City of Chandler Workers Compassation Average Unpaid Losses & ALAE -Limited to \$75,000 & Excluding Closed Without Payments Based on Data as of June 30, 2021

Accident Period	12	24	96	85	99	72	84	96	108	120	132	44	156	168	180	192	204	216
Beginning																		
7/1/2003	9,461	11,635	54,839	31,276	17,776	21,908	32,006	64,076	63,981	60,584	60,584	60,627	60,627	60,407	46,527	37,199	11,412	11,190
7/1/2004	5,158	17,042	11,138	7,378	5,531	4,313	2,807	9 8										
7/1/2005	14,962	47,870	32,323	27,417	45,904	34,932	27,363	20,189	4,687	0	0	0	0	0	0	0		
7/1/2006	9,494	13,083	12,803	18,605	27,553	7,733	11,447	14,790	13,080	13,076	25,937	25,929	25,824	20,211	20,199			
7/1/2007	8,377	16,269	13,710	23,769	27,022	54,043	35,667	29,293	30,657	46,159	66,398	62,530	60,127	38,678				
7/1/2008	7,210	6,654	8,726	8,111	21,209	12,012	8,055	8,053	7,628	7,552	376	338	0					
7/1/2009	12,873	2,608	2,233	17,175	10,171	20,782	13,740	2,577	2,957	2,560	3,214	3,458						
7/1/2010	5,764	1,616	3,306	5,207	24	20	20	0	0	0	0							
7/1/2011	7,551	6,722	6,980	3,649	2,970	3,256	2,412	2,235	2,518	2,288								
7/1/2012	11,888	12,295	13,562	34,670	28,324	11,923	6,432	0	0									
7/1/2013	10,622	7,700	4,706	6,600	2,028	2,276	2,683	2,080										
7/1/2014	5,340	2,978	197	509	0	0	0											
7/1/2015	7,463	13,364	18,338	15,094	11,102	12,504												
7/1/2016	9,965	10,849	5,898	0	0													
7/1/2017	11,014	4,284	12,491	19,862														
7/1/2018	9,360	13,567	12,098															
7/1/2019	9,102	8,935																
7/1/2020	14,995																	

Oliver Wyman Actuarial Consulting, Inc.

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> City of Chandler Workers' Compensation IBNR / Case Reserve - Limited to \$75,000 Based on Data as of June 30, 2021

3.3 3.50 1.28 0.87 1.42 0.25 0.36 0.86 0.44 0.23 0.36 0.17 0.33 0.01 0.22 0.17 0 0.33 0.01 0.22 0.17 0 0.33 0.065 1.28 1.087 0 0.47 0.25 0.58 2.28 0 0.54 0.25 0.58 1.28 1.07 0 0.47 0.25 0.58 1.28 1.08 0 0 0.47 0.25 0.82 0.17 0		4	24	36	48	60	22	54	96	108	120	132	144	156	168	180	192	204	216
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$!		i													0.0	0 -TC	000	000
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4		3,39	3.50	1.28	0,87	1.75	1.68	1.70	1.70	1.91	1.91	1.91	18.1	0.94	7c'n	c <i>J</i> .0	00.0	n n'n
	2		0.44	-0.25	-0.53	-0.66	-0.72	-0.85	-0.99										
	6		1.42	0.60	-0.22	0.17	0.20	0.26	0.38	0.07									
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Ű		0.33	-0.01	-0.25	-0.13	-0.24	-0.30	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04			
0.23 0.65 1.28 1.05 0.27 0.46 0.50 0.49 0.64 0.17 1.54 3.56 5.05 2.50 0.65 0.65 0.65 0.47 0.23 1.71 0.58 0.67 0.79 0.45 0.47 0.25 0.83 0.79 0.67 0.79 0.45 0.47 0.23 1.71 0.58 0.99 1.16 1.30 1.64 0.33 0.82 0.39 0.79 0.78 0.95 0.45 0.33 0.99 0.79 0.79 0.76 0.46 0.33 0.99 0.79 0.79 0.46 1.64 0.33 0.99 0.78 0.70 0.95 5.21 11.24 0.14 0.53 0.30 0.00 0.00 0.00 0.14 0.53 0.30 0.00 0.00 0.14 0.53 0.30 0.00 0.00 0.14 0.53 0.30 0.00 0.00 0.15 0.28 1.124 11.24 0.15 0.28 1.00 0.00 0.00 0.15 0.28 1.00 0.00 0.00	6		0.63	0.59	2.29	2.28	2.59	1.10	1.13	0.78	1.36	1.72	1.46	1.61	0.01				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2		-0.23	0.65	1.28	1.05	0.27	0.46	0.46	0.50	0.49								
0,7 -0.25 0.86 -0.97 -0.97 0,10 0,41 0.23 1,71 0.58 0.99 0,35 0,86 0,34 0.73 0.58 0.36 -0,12 0,25 0,39 0,16 0,39 -0,13 -0,33 -0,90 0,39 0,16 -0,33 -0,90 0,39 0,39 11,24 0,13 0,39 0,50 0,00 0,00 0,16 0,13 0,00 0,00 0,00 0,15 0,28 1,00 0,00 0,00 0,15 0,28 1,00 0,00 0,00 0,15 0,28 1,00 0,00 0,00 0,15 0,28 1,00 0,00 0,00 0,15 0,28 1,00 0,00 0,00	10		-0.64	-0.17	1.54	3.56	5.05	2.50	0.62	0.79	0.65	0.62	0.79						
0,0 0,41 0,23 1,71 0,58 0,99 1,16 1,30 0,35 0,35 0,34 0,75 5,21 1,14 1,33 -0,31 0,23 0,10 0,29 0,17 5,21 11,24 0,33 0,10 0,10 0,39 0,10 0,39 0,10 0,10 0,10 0,10 0,10 0,10 0,10 0,1	2		-0.47	-0.25	0.85		-0.97												
0.35 0.82 6.63 0.34 0.75 5.21 -0.12 0.28 0.28 0.28 0.10 0.99 5.21 -0.33 -0.30 -0.33 0.00 0.00 0.00 0.00 0.14 0.59 0.50 0.00 0.00 0.00 0.16 0.13 0.50 0.00 0.00 0.00 0.15 0.13 0.50 0.50 0.00 0.00 0.15 0.28 1.00 0.00 0.00 0.00 0.15 0.28 1.00 0.00 0.00 0.00	2		0.10	0.41	0.23	1.71	0.58	0.99	1.16	1.30	1.64								
-0.12 0.26 0.28 0.10 0.39 -0.23 -0.29 -0.83 0.00 0.00 0.14 0.53 0.50 0.00 0.00 0.14 0.53 0.53 0.50 0.00 0.15 0.36 0.13 1.00 0.10 0.15 0.28 1.00 0.00 0.00 0.15 0.28 1.00 0.00 0.00	5		0.35	0.82	6.63	0.94	0.75	5.21											
0.133 0.90 -0.33 0.14 0.59 0.50 0.00 0.06 0.13 0.50 0.00 0.122 0.95 1.00 0.15 0.28	ř		-0.12	0.26	0.28	0.10	0.99		11.24										
0.14 0.59 0.50 0.00 0.06 0.13 0.50 0.00 -0.28 0.95 1.00 0.15 0.28 0.30	÷		-0.33	-0.90	-0.83														
0.06 0.13 -0.29 0.95 0.15 0.28 0.90			0.14	0.59	0.50	0.00	0.00												
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	0	.43																	

Oliver Wyman Actuarial Consulting, Inc.
Increased Limit Factors - Losses & ALAE Based on Data as of June 30, 2021 Workers' Compensation **City of Chandler**

(5)	Selected	1.000	1.659	1.724	1.803	1.896	1.965	2.079	2.114
(4)	Prior	1.000	1.622	1.688	1.774	1.878	1.956	2.056	2.092
(3)	NCCI	1.000	1.562	1.606	1.657	1.720	1.754	1.864	1.911
(2)	Fitted	1.000	1.719	1.788	1.873	1.982	2.066	2.289	2.398
(1)	Trended Incurred Losses	1.000	1.684	1.757	1.846	1.948	2.028	2.122	2.122
	Limit	75.000	500,000	600,000	750,000	1,000,000	1,250,000	2,250,000	3,000,000

Notes:

(1) assumed a 2.5% annual severity trend
(2) fitted using a logarithmic distribution
(3) NCCI = National Council on Compensation Insurance

(4) from previous Oliver Wyman study(5) selected

ILFs on 9/29/2021 at 6:13 PM

Oliver Wyman Actuarial Consulting, Inc.



ILFsChart on 9/29/2021 at 6:13 PM

Oliver Wyman Actuarial Consulting, Inc.

City of Chandler Workers' Compensation Data Summary Based on Data as of June 30, 2021

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| | Closed | Pavment | | 10 | 1 | 7 | 12 | 7 | 9

 | 15 | പ
 | 9
 | 12 | 19 | ø | თ
 | б
 | Б | 16 | Ø | 4 | 9 | 193 |
| Claim Counts | Closed | Pavment | | 61 | 148 | 143 | 146 | 134 | 158

 | 163 | 139
 | 152
 | 157 | 131 | 149 | 141
 | 149
 | 128 | 4 | 144 | 124 | 73 | 2,584 |
| | Reported | (ex. CWOP) | | 63 | 149 | 143 | 147 | 135 | 161

 | 165 | 142
 | 153
 | 161 | 135 | 154 | 143
 | 153
 | 133 | 149 | 158 | 147 | 128 | 2,719 |
| | Unlimited | Incurred | | 1,344,958 | 833,257 | 651,732 | 1,025,022 | 619,168 | 1,099,931

 | 1,297,670 | 1,752,829
 | 2,709,979
 | 2,741,943 | 3,031,191 | 3,020,488 | 2,416,436
 | 4,822,246
 | 2,151,043 | 3,104,720 | 1,554,009 | 1,349,085 | 2,586,374 | 38,112,080 |
| es & ALAE | Incurred | of SIR | | 259,016 | 0 | 0 | 0 | 0 | 0

 | 0 | o
 | 1,253,417
 | 347,758 | 698,791 | 370,014 | 334,213
 | 1,284,333
 | 0 | 386,506 | 0 | 0 | 0 | 4,934,048 |
| Incurred Loss | Incurred | from Limit
to SIR | | 607,311 | 46,975 | 29,762 | 375,446 | 11,852 | 288,704

 | 622,433 | 447,411
 | 489,739
 | 1,229,872 | 1,263,175 | 1,167,024 | 1,091,893
 | 2,447,550
 | 886,853 | 1,569,961 | 473,822 | 308,892 | 1,251,956 | 14,610,632 |
| | Limited | Incurred to | | 478,631 | 786,281 | 621,971 | 649,576 | 607,316 | 811,227

 | 675,237 | 1,305,417
 | 966,822
 | 1,164,313 | 1,069,226 | 1,483,450 | 990,329
 | 1,090,362
 | 1,264,190 | 1,148,254 | 1,080,187 | 1,040,193 | 1,334,418 | 18,567,401 |
| | Unlimited | Paid | | 1,102,087 | 818,038 | 651,732 | 980,808 | 599,653 | 727,568

 | 1,160,444 | 1,480,728
 | 2,027,218
 | 1,880,655 | 2,096,347 | 2,355,943 | 1,393,200
 | 2,530,046
 | 1,628,931 | 1,606,123 | 976,327 | 1,048,235 | 672,909 | 25,736,992 |
| s & ALAE | Paid | Excess | | 30,981 | 0 | 0 | 0 | 0 | 0

 | 0 | 0
 | 570,657
 | 0 | 0 | 0 | 0
 | o
 | 0 | 0 | 0 | 0 | o | 601,637 |
| Paid Losses | Paid | from Limit | ×110 01 | 592,475 | 42,947 | 29.762 | 331,232 | 11,852 | 31,602

 | 485,208 | 181,103
 | 489,739
 | 719,808 | 1,027,121 | 873,342 | 402,871
 | 1,489,702
 | 364,741 | 507,431 | 28,706 | 120,686 | 83,588 | 7,813,915 |
| | Limited | Paid to | 222121 | 478,631 | 775.091 | 621.971 | 649,576 | 587,801 | 695,966

 | 675,237 | 1.299,626
 | 966,822
 | 1.160.847 | 1,069,226 | 1.482.601 | 990,329
 | 1.040.344
 | 1.264,190 | 1,098,692 | 947.621 | 927.549 | 589,321 | 17,321,440 |
| Exposures | - | \$1,000 Payroll) | | 38.782 | 82,686 | 84.675 | 90,201 | 102,877 | 111,710

 | 120,668 | 119,800
 | 113,843
 | 110.414 | 119,088 | 115.348 | 119,528
 | 127,517
 | 128.452 | 133.497 | 135,570 | 136.800 | 140,084 | 2,131,539 |
| L | Self-Insured | c | Nic | 500.000 | 500,000 | 500.000 | 500,000 | 500,000 | 500,000

 | 500,000 | 500.000
 | 500.000
 | 500,000 | 600,000 | 600.000 | 600,000
 | 600k / 1M
 | 600k / 1M | 600k / 1M | 600k / 1.25M | 600k / 1.25M | 750k / 2.25M | |
| | | Policy Period | | 9 | 2 | 3 5 | 2 | 2 | 0

 | 2 | 9
 | 5
 | 2 | 9 | ţ | 1
 | 1
 | 9 | 2 | 2 P | 2 | 8 | TOTALS |
| | Paid | Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE Self-Insured Incurred Insured Incurred Reported Reported | Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE Notice of the control of the contro | Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE Self-Insured Limited Incurred Incurred Inninted Reported Retention [\$1,000 Payroll] Paid to from Limit Excess Incurred Incurred Incurred Reported [SIR)* 75,000 to SIR of SIR paid 75,000 to SIR (ex. CWOP) | Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE 38f-Insured Exposures Limited Paid Unlimited Incurred Incurred Unlimited 38f-Insured (\$1,000 Payroll) Paid Paid Unlimited Incurred Incurred Unlimited Reported (\$IR) (\$IR) (\$I,000 Payroll) 75,000 to SIR of SIR of SIR of SIR (ex. CWOP) In Grand (\$IR) 38.782 478.531 552,475 30.961 1,102.067 478,531 607.66 1,344,958 63 | Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE Self-Insured Exposures Limited Paid Unlimited Incurred Incurred Incurred y Period Retention (\$1,000 Payroll) Paid to Paid Unlimited Incurred Incurred Unlimited Reported y Period Retention (\$1,000 Payroll) Paid to Foron Limit Excess Unlimited Incurred Unlimited Reported (\$1517) 75,000 05.IR Paid Incurred to from Limit Excess Incurred to from Core (ex. CWOP) (\$100 Payroll) 75,000 05.IR 55.IR Paid 1,102,087 478,631 60/311 259,016 1,344,568 633,257 149 (\$100 Payroll) 35,868 775,091 429,475 0 933,257 149 | Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE y Period Self-Insured Exposures Limited Paid Losses & ALAE Incurred Losses & ALAE y Period Retention [\$1,000 Payroll) Paid to from Limit Excess Unimited Incurred Incurred Incurred Reported to 6/302003 \$500,000 38,782 478,631 592,475 30,981 1,102,087 478,651 607,311 259,016 1,344,956 63 to 6/302003 \$500,000 38,782 478,631 592,477 0 818,038 786,281 633,257 149 to 6/302005 \$50,0000 84,575 0 651,732 21,47 29,762 149 | Exposures Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE y Period Remotion (\$1,000 Payrol!) Limited Paid Unlimited Incurred | Fexposures Paid Losses & ALAE Incurred Losses & ALAE Self-Insured Exposures Limited Paid Limited Paid Limited Incurred Incurred Incurred Incurred Incurred Reported y Period Retention (\$1,000 Payroll) Paid to from Limit Excess Unlimited Incurred Incurred Incurred (will mited Reported x5100 83/22 75,000 to N31 259,016 1,344,868 63 63 65 65 66 65 66 75,000 to 83,257 149 65 66 65 66 <t< td=""><td>Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE y Period Self-Insured Limited Paid Unlimited Limited Incurred Incurred</td><td>Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE reviout Self-insured Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE reviout Self-insured Limited Paid Unlimited Incurred Incurred Incurred reviout (\$IR) - Paid Draid Unlimited Excess Unlimited Reported reviout (\$IR) - Paid Unlimited Excess Unlimited (ex.CWOP) reviol (\$IR) - Paid Unlimited Excess Unlimited (ex.CWOP) reviol (\$IR) - Paid Unlimited Excess Unlimited (ex.CWOP) reviol \$IR \$IR \$IR \$IR \$IR (IR) - (IR) -<</td><td>Fortod Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Self-Insured Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Retention (\$1,000 Payrol) Paid to from Limit Excess Unlimited Incurred Incurred Incurred Incurred Incurred (ex. CWOP) 06302003 500,000 38,782 478,631 52,475 30,881 1,102,087 478,521 46,975 0 833,257 143 06 5302005 500,000 84,675 621,772 30,881 1,102,087 478,521 46,975 0 853,257 143 06 5302005 500,000 84,675 621,772 30,871 259,016 1,344,958 633,257 143 06 5302005 500,000 84,675 524,475 30,800 651,772 0 651,722 143 06 5302005 500,000 102,877 587,601 1,162,075 0 651,722 143 06 5302005 500,000 102,877 584,876<!--</td--><td>Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE Period Self-Insured Limited Paid Unlimited Limited Incurred Incurred</td><td>Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE reind Self-Insured Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE reind Self-Insured Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE reind Reported Limited Fand Unlimited Fand Unlimited Reported (510) Paid Componence Fand Unlimited Fand Unlimited Reported (510) 75,000 38,782 478,631 502,475 30,981 1,102,087 478,631 667,772 143 to 6500,2000 82,688 775,091 42,947 0 818,038 786,281 44,955 651,772 143 to 6500,2000 82,688 775,091 42,947 0 860,273 144 651,772 143 to 6500,2000 84,675 631,772 331,272 867,752 0 651,772 143 to 6500,2000 90,</td><td>Fortod Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Self-Insured Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Retention (\$1,000 Payrol) Paid to from Limit Excess Unlimited Reported / SIN Self-insured Incurred Incurred Incurred Incurred / SIN Self-insured Incurred Incurred Incurred Incurred / SIN 75,000 38,782 478,631 52,475 30,981 1,102,087 478,526 134,958 651,722 143 (6 5002003 500,000 84,675 52,475 30,981 1,102,087 786,281 46,975 0 651,722 143 (6 5002003 500,000 28,762 31,232 0 833,257 143 143 (6 5002003 500,000 28,752 31,322 0 833,257 143 143 (6 5002003 500,000 10,1352 31,34,3</td><td>Fridu Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE Farid Line and Self-insured Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE Farid Line and Farid Line and Farid Farid Farid Farid Farid Farid Incurred Incurred Incurred Incurred Incurred Incurred Farid Farid <!--</td--><td>Form Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE reind Paid Losses & ALAE Initiated Taid Daid Daid</td><td>Fortion Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Self-Insured Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Feriod Retention (\$1,000 Payrol) Paid to from Limit Excess Incurred Losses & ALAE Incurred Losses & ALAE (\$1,000 Payrol) Paid to from Limit Excess Incurred Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE (\$1,000 Payrol) Paid to from Limit Excess Incurred Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE (\$1,000 Payrol) 75,000 \$2,947 0.818,035 75,000 \$14,975 0.617,722 144,975 (\$1,000 Payrol) \$2,947 0 \$18,052 1,102,087 756,016 1,344,958 651,722 143 (\$100 00 00 00 \$2,848 75,000 \$21,971 \$21,722 0 \$51,722 143 (\$100 00 00 00 \$2,845 \$31,602,414 \$75,000 \$33,257 0 \$51,722 143 (\$10,000 00 \$2,845 \$31</td><td>Feriod Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Retention [51](3) Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE (51](3) Fajd to from Limit Excos Limited Paid Unlimited Incurred Losses & ALAE (51](3) Fajd to from Limit Exces Paid Unlimited Incurred Incurred Incurred (51)(3) 75,000 38,722 478,631 592,475 30,981 1,102,087 478,531 60,311 259,016 1,344,868 633,257 149 (6530)2005 500,000 84,675 52,475 30,981 1,102,087 478,531 60,311 234,257 149 (6530)2005 500,000 84,675 52,475 30,981 1,102,087 478,631 60,731 234,257 149 (6530)2005 500,000 102,871 48,576 0 651,722 149 (6530)2005 500,000 103,871</td><td>Feriod Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Self-Insured Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Retinue (5)(00 Payrol) Paid Losses & LAE Incurred Losses & ALAE Incurred Losses & ALAE (5)(100 Payrol) Paid Council Excess Unlimited Freess Incurred Losses & ALAE (5)(100 Payrol) Paid Losses & LAE Incurred Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE (5)(100 Payrol) Paid Losse Paid Losses Paid Losses Incurred Losses & ALAE Incurred Losses & ALAE (5)(100 Payrol) 75,001 75,001 75,001 1,102,007 478,975 051,772 149 (6)(2)(200 Payrol) 82,688 75,001 46,975 50,000 92,517 149 (ex. CWOP) (6)(3)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)</td><td>Fertod Exposures Paid Losses & ALAE Incurred Lorses & ALAE Incurred Lorses & ALAE Period Self-Insured Limited Paid to Ford Unlimited Incurred to Incurred Incurred Incurred Incurred Incurred Incurred Incurred Incurred Incurred Incurred Incurred Incurred Incurred Incurred Incurred Incurred</td><td>Ferrorare Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE y Period Sethisured [51,000 Payrol] Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE y Period [SIR], . [51,000 Payrol] Paid to From Limit Excess Incurred Losses & ALAE Incurred Losses & ALAE bis 6/302003 500,000 38,782 478,631 502,100 Fayo 653,257 144 bis 6/302003 500,000 82,685 775,091 42,347 30,391 1,102,087 478,631 607,311 259,016 1,344,958 633,257 144 bis 6/302003 500,000 82,685 775,091 42,347 30,320 667,372 26,976 0 105,1732 144 bis 6/302001 500,000 111,710 84,675 37,446 0 1,026,022 144 144 146 144 144 146 144 144 144 146 144 144 144 144 144 144 146</td><td>Feriod Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE Period Self-insured
(SIR) (S1,000 Payroli) T5,000 Paid Losses & ALAE Inimited Paid Losses & ALAE Reported 06 30/2003 S00,000 38,782 478,631 502,475 30,981 1,102,087 45,975 0 83,227 144 ex. CWOP) 06 30/2003 500,000 38,782 478,631 562,475 30,981 1,102,087 45,975 0 134,968 65 06 30/2003 500,000 38,782 478,651 522,475 30,981 1,102,087 75,000 134,496 66 75 144 06 53/2003 500,000 38,782 478,523 64,976 375,446 0 1,257,222 147 06 53/2004 500,000 113,843 575,272 64,976 375,446 0 1,257,222 147 06 53/2003 500,000 113,843 575,252 64,976 375,446 0 1,257,222 <td< td=""></td<></td></td></td></t<> | Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE y Period Self-Insured Limited Paid Unlimited Limited Incurred Incurred | Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE reviout Self-insured Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE reviout Self-insured Limited Paid Unlimited Incurred Incurred Incurred reviout (\$IR) - Paid Draid Unlimited Excess Unlimited Reported reviout (\$IR) - Paid Unlimited Excess Unlimited (ex.CWOP) reviol (\$IR) - Paid Unlimited Excess Unlimited (ex.CWOP) reviol (\$IR) - Paid Unlimited Excess Unlimited (ex.CWOP) reviol \$IR \$IR \$IR \$IR \$IR (IR) - (IR) -< | Fortod Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Self-Insured Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Retention (\$1,000 Payrol) Paid to from Limit Excess Unlimited Incurred Incurred Incurred Incurred Incurred (ex. 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CWOP) 06 30/2003 500,000 38,782 478,631 562,475 30,981 1,102,087 45,975 0 134,968 65 06 30/2003 500,000 38,782 478,651 522,475 30,981 1,102,087 75,000 134,496 66 75 144 06 53/2003 500,000 38,782 478,523 64,976 375,446 0 1,257,222 147 06 53/2004 500,000 113,843 575,272 64,976 375,446 0 1,257,222 147 06 53/2003 500,000 113,843 575,252 64,976 375,446 0 1,257,222 <td< td=""></td<></td></td> | Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE Period Self-Insured Limited Paid Unlimited Limited Incurred Incurred | Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE reind Self-Insured Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE reind Self-Insured Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE reind Reported Limited Fand Unlimited Fand Unlimited Reported (510) Paid Componence Fand Unlimited Fand Unlimited Reported (510) 75,000 38,782 478,631 502,475 30,981 1,102,087 478,631 667,772 143 to 6500,2000 82,688 775,091 42,947 0 818,038 786,281 44,955 651,772 143 to 6500,2000 82,688 775,091 42,947 0 860,273 144 651,772 143 to 6500,2000 84,675 631,772 331,272 867,752 0 651,772 143 to 6500,2000 90, | Fortod Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Self-Insured Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Retention (\$1,000 Payrol) Paid to from Limit Excess Unlimited Reported / SIN Self-insured Incurred Incurred Incurred Incurred / SIN Self-insured Incurred Incurred Incurred Incurred / SIN 75,000 38,782 478,631 52,475 30,981 1,102,087 478,526 134,958 651,722 143 (6 5002003 500,000 84,675 52,475 30,981 1,102,087 786,281 46,975 0 651,722 143 (6 5002003 500,000 28,762 31,232 0 833,257 143 143 (6 5002003 500,000 28,752 31,322 0 833,257 143 143 (6 5002003 500,000 10,1352 31,34,3 | Fridu Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE Farid Line and Self-insured Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE Farid Line and Farid Line and Farid Farid Farid Farid Farid Farid Incurred Incurred Incurred Incurred Incurred Incurred Farid Farid </td <td>Form Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE reind Paid Losses & ALAE Initiated Taid Daid Daid</td> <td>Fortion Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Self-Insured Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Feriod Retention (\$1,000 Payrol) Paid to from Limit Excess Incurred Losses & ALAE Incurred Losses & ALAE (\$1,000 Payrol) Paid to from Limit Excess Incurred Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE (\$1,000 Payrol) Paid to from Limit Excess Incurred Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE (\$1,000 Payrol) 75,000 \$2,947 0.818,035 75,000 \$14,975 0.617,722 144,975 (\$1,000 Payrol) \$2,947 0 \$18,052 1,102,087 756,016 1,344,958 651,722 143 (\$100 00 00 00 \$2,848 75,000 \$21,971 \$21,722 0 \$51,722 143 (\$100 00 00 00 \$2,845 \$31,602,414 \$75,000 \$33,257 0 \$51,722 143 (\$10,000 00 \$2,845 \$31</td> <td>Feriod Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Retention [51](3) Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE (51](3) Fajd to from Limit Excos Limited Paid Unlimited Incurred Losses & ALAE (51](3) Fajd to from Limit Exces Paid Unlimited Incurred Incurred Incurred (51)(3) 75,000 38,722 478,631 592,475 30,981 1,102,087 478,531 60,311 259,016 1,344,868 633,257 149 (6530)2005 500,000 84,675 52,475 30,981 1,102,087 478,531 60,311 234,257 149 (6530)2005 500,000 84,675 52,475 30,981 1,102,087 478,631 60,731 234,257 149 (6530)2005 500,000 102,871 48,576 0 651,722 149 (6530)2005 500,000 103,871</td> <td>Feriod Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Self-Insured Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Retinue (5)(00 Payrol) Paid Losses & LAE Incurred Losses & ALAE Incurred Losses & ALAE (5)(100 Payrol) Paid Council Excess Unlimited Freess Incurred Losses & ALAE (5)(100 Payrol) Paid Losses & LAE Incurred Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE (5)(100 Payrol) Paid Losse Paid Losses Paid Losses Incurred Losses & ALAE Incurred Losses & ALAE (5)(100 Payrol) 75,001 75,001 75,001 1,102,007 478,975 051,772 149 (6)(2)(200 Payrol) 82,688 75,001 46,975 50,000 92,517 149 (ex. 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[51,000 Payrol] Paid to From Limit Excess Incurred Losses & ALAE Incurred Losses & ALAE bis 6/302003 500,000 38,782 478,631 502,100 Fayo 653,257 144 bis 6/302003 500,000 82,685 775,091 42,347 30,391 1,102,087 478,631 607,311 259,016 1,344,958 633,257 144 bis 6/302003 500,000 82,685 775,091 42,347 30,320 667,372 26,976 0 105,1732 144 bis 6/302001 500,000 111,710 84,675 37,446 0 1,026,022 144 144 146 144 144 146 144 144 144 146 144 144 144 144 144 144 146</td> <td>Feriod Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE Period Self-insured
(SIR) (S1,000 Payroli) T5,000 Paid Losses & ALAE Inimited Paid Losses & ALAE Reported 06 30/2003 S00,000 38,782 478,631 502,475 30,981 1,102,087 45,975 0 83,227 144 ex. CWOP) 06 30/2003 500,000 38,782 478,631 562,475 30,981 1,102,087 45,975 0 134,968 65 06 30/2003 500,000 38,782 478,651 522,475 30,981 1,102,087 75,000 134,496 66 75 144 06 53/2003 500,000 38,782 478,523 64,976 375,446 0 1,257,222 147 06 53/2004 500,000 113,843 575,272 64,976 375,446 0 1,257,222 147 06 53/2003 500,000 113,843 575,252 64,976 375,446 0 1,257,222 <td< td=""></td<></td> | Form Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE reind Paid Losses & ALAE Initiated Taid Daid Daid | Fortion Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Self-Insured Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Feriod Retention (\$1,000 Payrol) Paid to from Limit Excess Incurred Losses & ALAE Incurred Losses & ALAE (\$1,000 Payrol) Paid to from Limit Excess Incurred Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE (\$1,000 Payrol) Paid to from Limit Excess Incurred Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE (\$1,000 Payrol) 75,000 \$2,947 0.818,035 75,000 \$14,975 0.617,722 144,975 (\$1,000 Payrol) \$2,947 0 \$18,052 1,102,087 756,016 1,344,958 651,722 143 (\$100 00 00 00 \$2,848 75,000 \$21,971 \$21,722 0 \$51,722 143 (\$100 00 00 00 \$2,845 \$31,602,414 \$75,000 \$33,257 0 \$51,722 143 (\$10,000 00 \$2,845 \$31 | Feriod Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Retention [51](3) Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE (51](3) Fajd to from Limit Excos Limited Paid Unlimited Incurred Losses & ALAE (51](3) Fajd to from Limit Exces Paid Unlimited Incurred Incurred Incurred (51)(3) 75,000 38,722 478,631 592,475 30,981 1,102,087 478,531 60,311 259,016 1,344,868 633,257 149 (6530)2005 500,000 84,675 52,475 30,981 1,102,087 478,531 60,311 234,257 149 (6530)2005 500,000 84,675 52,475 30,981 1,102,087 478,631 60,731 234,257 149 (6530)2005 500,000 102,871 48,576 0 651,722 149 (6530)2005 500,000 103,871 | Feriod Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Self-Insured Limited Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE / Period Retinue (5)(00 Payrol) Paid Losses & LAE Incurred Losses & ALAE Incurred Losses & ALAE (5)(100 Payrol) Paid Council Excess Unlimited Freess Incurred Losses & ALAE (5)(100 Payrol) Paid Losses & LAE Incurred Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE (5)(100 Payrol) Paid Losse Paid Losses Paid Losses Incurred Losses & ALAE Incurred Losses & ALAE (5)(100 Payrol) 75,001 75,001 75,001 1,102,007 478,975 051,772 149 (6)(2)(200 Payrol) 82,688 75,001 46,975 50,000 92,517 149 (ex. CWOP) (6)(3)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1) | Fertod Exposures Paid Losses & ALAE Incurred Lorses & ALAE Incurred Lorses & ALAE Period Self-Insured Limited Paid to Ford Unlimited Incurred to Incurred Incurred Incurred Incurred Incurred Incurred Incurred Incurred Incurred Incurred Incurred Incurred Incurred Incurred Incurred Incurred | Ferrorare Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE y Period Sethisured [51,000 Payrol] Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE y Period [SIR], . [51,000 Payrol] Paid to From Limit Excess Incurred Losses & ALAE Incurred Losses & ALAE bis 6/302003 500,000 38,782 478,631 502,100 Fayo 653,257 144 bis 6/302003 500,000 82,685 775,091 42,347 30,391 1,102,087 478,631 607,311 259,016 1,344,958 633,257 144 bis 6/302003 500,000 82,685 775,091 42,347 30,320 667,372 26,976 0 105,1732 144 bis 6/302001 500,000 111,710 84,675 37,446 0 1,026,022 144 144 146 144 144 146 144 144 144 146 144 144 144 144 144 144 146 | Feriod Exposures Paid Losses & ALAE Incurred Losses & ALAE Incurred Losses & ALAE Period Self-insured
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Notes: (1) through (12) from City of Chandler • Where two S/R's are displayed, the first is for non public safety employees and the second is for public safety employees.

DataSummary on 9/29/2021 at 6:13 PM

Oliver Wyman Actuarial Consulting, Inc.

City of Chandler Workers' Compensation Large Loss Listing (2, 575,000) Based on Data as of June 30, 2021

(10) Unlimited Incurred Change	0 222,984 0 222,984	0000	00	(18,968) 0 (18,968)	00	0 124,183 0 124,183	0000	666666	(0) 0 (20,734) (20,734)
(9) Unlimited Incurred	78,602 759,016 253,709 1,091,32 7	79,813 79,028 113,134 271,975	104,762 104,762	160,341 365,105 525,446	86,852 86,852	288,920 125,775 99,009 513,704	119,596 472,998 254,839 847,433	253,998 82,866 110,2,866 93,413 93,413 247,136 109,705 897,411	1,753,417 112,715 76,945 100,079 2,043,157
(8) Incurred Excess of SIR	0 259,016 0 259,016	0000	00	000	00	0000	0000	0 0 0 0 0 0 0	1,253,417 0 0 1,253,417
(7) Incurred from Limit to SIR	3,602 425,000 178,709 607,311	4,813 4,028 38,134 46,975	29,762 29,762	85,341 290,105 375,446	11,852 11,852	213,920 50,775 24,009 288,704	44,596 397,998 179,839 622,433	178,998 7,866 35,293 18,413 172,136 34,705 447,411	425,000 37,715 1,945 25,079 489,739
(6) Limited Incurred to 75,000	75,000 75,000 75,000 225,000	75,000 75,000 75,000 225,000	75,000 75,000	75,000 75,000 150,000	75,000 75,000	75,000 75,000 75,000 225,000	75,000 75,000 75,000 225,000	75,000 75,000 75,000 75,000 75,000 75,000	75,000 75,000 75,000 75,000 300,000
(5) Unlimited Paid Change	0 1,761 407 2,168	221 221 227	° 0	1,320 1,348 2,668	0 0	6,197 4,221 0 10,417	0 4,112 538 4,650	3,703 3,703 0 4,878 8,581	33,035 0 128 33,163
(4) Unlimited Paid	78,602 530,981 238,873 848,456	79,813 63,810 113,134 256,757	104,762 104,762	160,341 320,891 481,232	86,852 86,852	82,594 5,813 99,009 187,416	119,596 415,308 175,304 710,208	101,870 82,866 110,293 93,413 132,955 109,705 631,705	1,070,857 112,715 76,945 100,079 1,360,396
(3) Paid Excess of SIR	0 30,981 3 0,981	0000	• •	000	0 0	0000	0000	00000 0	570,657 0 0 5 70,657
(2) Paid from Limit to SIR	3,602 425,000 163,873 592,475	4,813 0 38,134 42,947	29,762 29,762	85,341 245,891 331,232	11,852 <i>11,852</i>	7,594 0 24,009 31,602	44,596 340,308 100,304 485,208	26,870 7,866 35,293 18,413 57,955 34,705 34,705	425,000 37,715 1,945 25,079 489,739
(1) Limited Paid to 75,000	75,000 75,000 75,000 225,000	75,000 63,810 75,000 213,810	75,000 75,000	75,000 75,000 150,000	75,000 75,000	75,000 5,813 75,000 155,813	75,000 75,000 75,000 225,000	75,000 75,000 75,000 75,000 75,000 75,000	75,000 75,000 75,000 75,000 300,000
Self-Insured Retention (SIR)	500,000 500,000 500,000 2 open	500,000 500,000 500,000 ; 1 open	500,000 0 open	500,000 500,000 ; 1 open	500,000 ; 0 open	500,000 500,000 500,000 2 open	500,000 500,000 500,000 2 open	500,000 500,000 500,000 500,000 500,000 500,000 2 open	500,000 500,000 500,000 500,000 7 open
Claim Status	Closed Open Open ; 3 claims ;	Closed Open Closed ; 3 claims ;	••			Open Open Closed ; 3 claims ;	Closed Open Open 3 claims ;	Open Closed Closed Closed Open Closed Statims ;	Open Closed Closed Closed Closed
Accident Date	00003 1/3/2003 00013 2/12/2003 00045 5/8/2003 1/1/2003 to 6/30/2003	500041 10/2/2003 500099 3/8/2004 500125 4/28/2004 7/1/2003 to 6/30/2004 ;	500010 7/28/2004 Closed 7/1/2004 to 5/30/2005 ; 1 claim	500060 11/16/2005 Closed 500138 5/23/2006 Open 7/1/2005 to 6/30/2006 ; 2 claims	500083 2/22/2007 Closed 7/1/2006 to 6/30/2007 ; 1 claim	500045 9/7/2007 500047 9/13/2007 500153 5/15/2008 7/1/2007 to 6/30/2008 ;	00034 9/3/2008 00085 1/2/18/2008 00107 2/17/2009 7/1/2008 to 6/30/2009 ;	200009 7/17/2009 200033 9/4/2009 200067 12/5/2009 200085 2/8/2010 200103 3/8/2010 20104 3/11/2010 20104 3/11/2010	001 7/28/2010 Open 500,0 00038 812/22010 Open 500,0 00037 10/2/2010 Clased 500,0 00013 2/11/2011 Clased 500,0 00103 2/11/2011 Clased 500,0
Claim Number	CN-03-0500003 CN-03-0500013 CN-03-0500045 1/1/2003	CN-04-0500041 CN-04-0500099 CN-04-0500125 CN-04-0500125	CN-05-050010 7/1/2004	CN-06-0500050 11/16/2005 CN-06-0500138 5/23/2006 7/1/2005 to 6/30/200	CN-07-0500083 2/22/2007 7/1/2006 to 6/30/201	CN-08-0500045 CN-08-0500047 CN-08-0500153 7/1/2007	CN-09-0500034 CN-09-0500085 CN-09-0500107 7/1/2008	CN-10-0500009 CN-10-0500033 CN-10-0500067 CN-10-0500085 CN-10-0500085 CN-10-0500103 CN-10-0500103 CN-10-0500103	WC-001 CN-11-0500036 CN-11-0500057 CN-11-0500057 CN-11-0500103 7/1/2010

LargeLosses on 9/29/2021 at 6:13 PM

Oliver Wyman Actuarial Consulting, Inc.

City of Chandler Workers' Compensation Large Loss Listing (2,575,000) Based on Data as of June 30, 2021

(10) Unlimited Incurred Change	76,603 76,603 76,603	120,415 120,415 0 120,415	0 0 (11,015) 22,391 11,375	0000	0 0 (4,529) 2,867 (1,662)	0 (2,545) 7,500 7,500 384,248 (31,363) 357,847	0 (11,578) (15,484) (15,484) 485,173 408,011
(9) Unlimited Incurred	321,800 399,889 847,758 308,184 1, 877,630	140,501 140,458 329,972 1,298,791 245,745 101,137 230,360 2,486,965	75,467 272,469 146,837 113,249 409,002 970,014 1,987,038	116,893 761,640 772,573 1,651,106	634,550 95,280 1,638,203 92,720 1,646,131 4,106,884	118,014 119,183 76,270 218,358 95,852 533,992 533,992 94,912 1,486,853	99,345 77,131 82,283 115,763 93,086 93,086 527,354 1,386,506 1,386,506 2,481,466
(8) Incurred Excess of SIR	0 0 347,758 347,758	0 0 191,791 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 370,014 370,014	0 161,640 172,573 334,213	0 638,203 646,131 1,284,333		0 0 0 0 386,506 386,506 386,506
(7) Incurred from Limit to SIR	246,800 324,889 425,000 233,184 1,229,872	65,501 65,458 554,972 525,000 170,745 26,137 155,360 1,263,175	467 197,469 71,837 38,249 334,002 525,000 1,167,024	41,893 525,000 525,000 1,091,893	559,550 20,280 925,000 17,720 925,000 2,447,550	43,014 44,183 1,270 143,355 143,355 143,355 152,252 155,272 155,272 159,912 19,912 886,853	24,345 2,131 7,283 40,763 18,086 552,354 925,000 7,569,961
(5) Limited Incurred to 75,000	75,000 75,000 75,000 300,000	75,000 75,000 75,000 75,000 75,000 75,000 75,000	75,000 75,000 75,000 75,000 75,000 75,000 75,000	75,000 75,000 75,000 225,000	75,000 75,000 75,000 75,000 75,000 375,000	75,000 75,000 75,000 75,000 75,000 75,000 75,000 75,000	75,000 75,000 75,000 75,000 75,000 75,000 75,000 75,000
(5) Unlimited Paid Change	0 44,513 19,815 12,997 77,326	0 33,384 20,934 20,934 0 54,318	0 183 3,915 3,915 15,156 19,157 38,411	D 34,057 34,056 68,113	16,144 5,494 86,297 28,014 135,949	3,399 0 6,161 6,161 20 39,943 215 49,741	204 0 0 51 51 37,009 89,634
(4) Unlimited Paid	321,800 342,574 210,869 144,565 1,019,808	85,571 140,458 207,415 205,415 565,415 245,745 77,161 230,360 1,552,127	75,467 258,575 144,738 113,249 203,530 527,783 1,323,342	116,893 270,646 240,332 627,871	227,933 24,982 719,747 92,720 749,302 749,302	94,743 106,553 76,270 145,800 95,852 195,852 195,289 94,912 94,912 94,912	96,574 77,131 82,283 115,763 34,252 183,359 183,359 402,321 991,683
(3) Paid Excess of SIR	00000	0000000 <u>0</u>	0000000	000 0		00000000	
(2) Paid from Limit to SIR	246,500 267,574 135,869 69,565 719,808	10.571 65,458 132,415 490,410 170,745 2,161 155,360 1,027,721	467 183,575 69,738 69,738 38,249 128,530 452,783 873,342	41,893 195,646 165,332 4 02, <i>871</i>	152,933 0 644,747 17,720 674,302 1,489,702	19,743 31,553 1,270 1,270 71,800 20,862 119,323 80,289 80,289 19,912 19,912 364,741	21,574 2,131 7,283 40,763 40,763 108,359 327,321 507,431
(1) Limited Paid to 75,000	75,000 75,000 75,000 75,000 300,000	75,000 75,000 75,000 75,000 75,000 75,000 75,000	75,000 75,000 75,000 75,000 75,000 75,000 75,000	75,000 75,000 75,000 225,000	75,000 24,982 75,000 75,000 75,000 324,982	75,000 75,000 75,000 75,000 75,000 75,000 75,000 75,000 75,000	75,000 75,000 75,000 75,000 34,252 75,000 75,000 75,000
Self-Insured Retention (SIR)	500,000 500,000 500,000 500,000	800,000 800,000 800,000 800,000 800,000 800,000 800,000 800,000	500,000 500,000 500,000 500,000 500,000 500,000 500,000 500,000	600,000 600,000 600,000 500,000	1,000,000 1,000,000 1,000,000 1,000,000 1,000,000	1,000,000 1,000,000 600,000 1,000,000 1,000,000 1,000,000 1,000,000	1,000,000 1,000,000 1,000,000 1,000,000 1,000,000
Claim Status	Closed Open Open Open	Open Closed Open Open Closed Open Closed	Closed Open Open Closed Open Open	Closed Open Open ; 3 claims	Open Open Open Closed Open S claims	Open Open Closed Open Closed Open Open Closed	Open Closed Closed Closed Open Open Open
Accident Date	9/9/2011 11/13/2011 3/23/2012 4/19/2012 7 to 6/30/2012	05122 9/30/2012 06159 1/16/2013 05205 3/19/2013 05252 5/2/2013 05314 5/8/2013 05273 5/2/2013 05273 5/2/2013	8/20/2013 10/17/2013 2/19/2014 2/28/2014 5/12/2014 5/13/2014 3 to 6/30/2014	10/1/2014 10/28/2014 10/31/2014 4 to 6/30/2015	05088 10/12/2015 05145 10/30/2015 05514 4/23/2016 05324 5/5/2016 05347 5/18/2016 05347 5/18/2016	8/16/2018 8/16/2018 851102 9/29/2016 85110 11/14/2016 805137 11/19/2016 805202 12/29/2016 805404 4/3/2017 805508 5/10/2017 7/7/2016 to 6/30/2017	9/28/2017 10/26/2017 11/9/2017 11/14/2017 12/8/2017 3/6/2018 3/6/2018 7 to 6/30/2018
Claim Number	CN-12-0500036 CN-12-0500073 CN-10-000002 CN-12-0500139 CN-12-0500139	CN-13-005122 CN-13-005152 CN-13-005152 CN-13-005205 CN-13-005205 CN-13-005231 CN-13-005231 CN-13-005231 CN-13-005273 CN-13-005273	CN-14-005049 CN-14-005093 CN-14-005197 CN-14-005197 CN-14-005319 CN-14-005319 CN-14-005319 CN-14-005319 CN-14-005314	CN-15-005102 CN-15-005139 CN-15-005142 CN-15-005142	CN-16-005088 CN-16-005088 CN-16-005145 CN-16-005314 CN-16-005324 CN-16-005347 CN-16-005347	CN-17-005049 CN-17-005102 CN-17-005102 CN-17-005137 CN-17-005137 CN-17-005400 CN-17-005640 CN-17-005508 CN-17-005508	CN-18-005172 CN-18-005210 CN-18-005237 CN-18-005238 CN-18-005238 CN-18-005439 CN-18-005455 CN-18-005455 CN-18-005455

LargeLosses on 9/29/2021 at 6:13 PM

Oliver Wyman Actuarial Consulting, Inc.

City of Chandler Workers' Compensation Large Loss Listing (2,575,000) Based on Data as of June 30, 2021

				(1)	(2)	(3)	(4)	(2)	(8)	6	(8)	(6)	(10)
Claim Number	Accident Date	Claim Status	Self-Insured Retention (SIR)	Limited Paid to 75.000	Paid from Limit to SIR	Paid Excess of SIR	Unlimited Paid	Unlimited Paid Change	Limited Incurred to 75 000	Incurred from Limit to SJP	Incurred Excess of SID	Unlimited Incurred	Unlimited Incurred Change
										100.01			
CN-19-005032	7/20/2018	open	600,000	75,000	18,652	0	93,652	309	75,000	26,367	0	101,367	0
CN-19-005106	9/4/2018	Closed	1,250,000	75,000	10,054	0	85,054	571	75,000	10,054	•	85,054	571
CN-19-005526	5/2/2019	Open	1,250,000	54,845	0	0	54,845	40,027	75,000	21,766	0	96,766	73,022
CN-19-005522	5/29/2019	Open	1,250,000	37,888	0	D	37,888	14,590	75,000	407,627	•	482,627	0
CN-19-005523	6/21/2019	Open	600,000	35,315	0	0	35,315	2,010	75,000	8,008	0	83,008	0
7/1/201	7/1/2018 to 6/30/2019	; 5 claims ;	4 open	278,048	28,706	0	306,754	57,507	375,000	473,822	a	848,822	73,592
CN-20-005053	9/5/2019	Open	1,250,000	75,000	101,272	0	176,272	106,324	75,000	173,593	o	248,593	76,582
CN-20-005093	9/25/2019	Open	1,250,000	75,000	2,199	•	77,199	35,856	75,000	73,953	0	148,953	84,514
CN-20-005089	10/10/2019	Open	1,250,000	67,704	0	•	67,704	23,791	75,000	8,017	0	83,017	21,964
CN-20-005167	1/27/2020	Open	1,250,000	75,000	17,214	•	92,214	53,773	75,000	32,155	0	107,155	36,756
CN-20-005223	1/27/2020	Open	1,250,000	60,335	٥	a	60,335	51,523	75,000	8,395	0	83,395	59,391
CN-20-005313	6/25/2020	Open	1,250,000	73,669	٥	٩	73,669	73,669	75,000	12,779	0	87,779	87,779
7/1/201	7/1/2019 to 6/30/2020	; 6 claim ;	e open	426,708	120,686	0	547,394	344,937	450,000	308,892	0	758,892	366,986
CN-21-005129		Open	2,250,000	75,000	83,588	D	158,588	158,588	75,000	109,857	0	184,857	184,857
CN-21-005148	-	Open	2,250,000	23,802	0	0	23,802	23,802	75,000	1,031,036	0	1,106,036	1,106,036
CN-21-005153		Open	2,250,000	12,140	0	0	12,140	12,140	75,000	70,605	0	145,605	145,605
CN-21-005168	2/11/2021	Open	2,250,000	15,989	0	0	15,989	15,989	75,000	1,603	0	76,603	76,603
CN-21-005190	3/11/2021	Open	2,250,000	58,669	0	٥	58,669	58,669	75,000	32,351	0	107,351	107,351
CN-21-005251	5/8/2021	Open	2,250,000	123	a	0	123	123	75,000	666	0	75,999	75,999
CN-21-005276	6/16/2021	Open	2,250,000	247	0	0	247	247	75,000	5,504	0	80,504	80,504
7/1/202	7/1/2020 to 6/30/2021	; 7 claim ;	7 open	185,970	83,588	0	269,558	269,558	525,000	1,251,956	0	1,776,956	1,776,956
TOT	TOTALS ; 84 claims ; 54 open	ns ; 54 ope	Ę	5,669,584	7,813,915	601,637	14,085,137	1,247,364	6,300,000	14,610,632	4,934,048	25,844,680	3,497,581

Notes: (1) through (10) from City of Chandler

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LargeLosses on 9/29/2021 at 6:13 PM

Appendix D

Workers' Compensation Losses & ALAE Reconciliation Based on Data as of June 30, 2021 **City of Chandler**

(1) Loss Run 1 - Unlimited 25,736,573 38,111,661 (2) Manual Adjustment 419 419 (2) Manual Adjustment 601,637 4,934,048 (3) Amounts Excess of SIR 601,637 4,934,048 (4) OW Analysis - Retained 25,135,355 33,178,032 (5) Difference - Retained 0 0 0			Paid	Incurred
Manual Adjustment419Amounts Excess of SIR601,6374,934,OW Analysis - Retained25,135,35533,178,Difference - Retained000	(1)		25,736,573	38,111,661
Amounts Excess of SIR 601,637 CW Analysis - Retained 25,135,355 3 Difference - Retained 0	(2)	Manual Adjustment	419	419
OW Analysis - Retained 25,135,355 Difference - Retained 0	(3)	Amounts Excess of SIR	601,637	4,934,048
	(4)	OW Analysis - Retained	25,135,355	33,178,032
	(5)	Difference - Retained	0	0

Notes:

from City of Chandler; paid and incurred losses provided on a net of recoveries basis
 from City of Chandler; adjusted for negative incurred losses
 from City of Chandler
 from Appendix A, Page 1
 = (1) + (2) - (3) - (4)

Oliver Wyman Actuarial Consulting, Inc.

DataReconcile on 9/29/2021 at 6:13 PM

Workers' Compensation

City of Chandler



1soJ ssoJ

Oliver Wyman Actuarial Consulting, Inc.



Oliver Wyman Actuarial Consulting, Inc.

Chart2 on 9/29/2021 at 6:13 PM



Oliver Wyman 633 West Fifth Street, Suite 1200 Los Angeles, CA 90071



Workers' Compensation And Employer Liability Trust Board Human Resources Memo No.

Date:	02/03/2022
То:	Workers' Compensation And Employer Liability Trust Board
From:	Teresa Canjar, Management Assistant
Subject:	Financial Audit Report - Heinfeld Meech

Attachments

Financial Audit Report



November 11, 2021

Board of Trustees Chandler Worker's Compensation and Employer Liability Trust

We have audited the financial statements Chandler Worker's Compensation and Employer Liability Trust (Trust), an internal service fund of the City of Chandler, Arizona, for the year ended June 30, 2021. Professional standards require that we provide you with information about our responsibilities under generally accepted auditing standards, *Government Auditing Standards* as well as certain information related to the planned scope and timing of our audit. We have communicated such information in our engagement letter provided to you during the planning phase of the audit. Professional standards also require that we communicate to you the following matters related to our audit.

Qualitative Aspects of Accounting Practices

Management is responsible for the selection and use of appropriate accounting policies. The significant accounting policies used by Chandler Worker's Compensation and Employer Liability Trust are described in Note 1 to the financial statements. No new accounting policies were adopted and the application of existing policies was not changed during the year. We noted no transactions entered into by the Trust during the year for which there is a lack of authoritative guidance or consensus. All significant transactions have been recognized in the financial statements in the proper period.

Accounting estimates are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements and because of the possibility that future events affecting them may differ significantly from those expected.

The most sensitive estimates affecting the financial statements are management's estimates of the insurance claims incurred but not reported (IBNR) and case reserves, which are based on information provided by the entity's third party administrator and subsequent claims activity.

The financial statement disclosures are neutral, consistent, and clear.

Difficulties Encountered in Performing the Audit

We encountered no significant difficulties in dealing with management in performing and completing our audit.

<u>Audit Adjustments</u>

Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that we believe are trivial, and communicate them to the appropriate level of management. During the course of the audit we did not identify any misstatements which require communication.

In addition, as part of the professional services we provided to the Trust we assisted with the preparation of the financial statements and the notes to financial statements. In providing these services we prepared adjusting journal entries (if necessary) to convert the accounting records to the basis of accounting required by generally accepted accounting principles. If applicable, those adjusting journal entries have been provided to management who reviewed and approved those entries and accepted responsibility for them.

Disagreements with Management

For purposes of this letter, a disagreement with management is a financial accounting, reporting, or auditing matter, whether or not resolved to our satisfaction, that could be significant to the financial statements or the auditor's report. We are pleased to report that no such disagreements arose during the course of our audit.

Management Representations

We have requested certain written representations from management, which are included in the management representation letter provided to us at the conclusion of the audit.

Management Consultations with Other Independent Accountants

In some cases, management may decide to consult with other accountants about auditing and accounting matters, similar to obtaining a "second opinion" on certain situations. If a consultation involves application of an accounting principle to the Trust's financial statements or a determination of the type of auditor's opinion that may be expressed on those statements, our professional standards require the consulting accountant to check with us to determine that the consultant has all the relevant facts. To our knowledge, there were no such consultations with other accountants regarding auditing and accounting matters.

Discussions with Management

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management throughout the course of the year. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our retention as the Trust's auditors.

Other Matters – Accounting Restatement

The auditor's report includes an emphasis-of-matter paragraph related to the Trust's inclusion of actuarially-determined case reserves in the current year claims liability. As a result of this change, and as discussed in Note 4 to the financial statements, the beginning net position has been restated to reflect this correction for prior periods. Our opinion is not modified with respect to this matter.

Compliance with Ethics Requirements Regarding Independence

The engagement team, others in our firm, and as appropriate, our firm, have complied with all relevant ethical requirements regarding independence. Heinfeld, Meech & Co., P.C. continually assesses client relationships to comply with relevant ethical requirements, including independence, integrity, and objectivity, and policies and procedures related to the acceptance and continuance of client relationships and specific engagements. Our firm follows the "Independence Rule" of the AICPA Code of Professional Conduct and the rules of state boards of accountancy and applicable regulatory agencies. It is the policy of the firm that all employees be familiar with and adhere to the independence, integrity, and objectivity rules, regulations, interpretations, and rulings of the AICPA, U.S. Government Accountability Office (GAO), and applicable state boards of accountancy.

Responsibility for Fraud

It is important for both management and the members of the governing body to recognize their role in preventing, deterring, and detecting fraud. One common misconception is that the auditors are responsible for detecting fraud. Auditors are required to plan and perform an audit to obtain reasonable assurance that the financial statements do not include material misstatements caused by fraud. Unfortunately most frauds which occur in an organization do not meet this threshold.

The attached document prepared by the Association of Certified Fraud Examiners (ACFE) is provided as a courtesy to test the effectiveness of the fraud prevention measures of your organization. Some of these steps may already be in place, others may not. Not even the most well-designed internal controls or procedures can prevent and detect all forms of fraud. However, an awareness of fraud related factors, as well as the active involvement by management and the members of the governing body in setting the proper "tone at the top", increases the likelihood that fraud will be prevented, deterred and detected.

Other Important Communications Related to the Audit

Attached to this letter are a copy of the signed engagement letter provided to us at the initiation of the audit, and a copy of the management representation letter provided to us at the conclusion of the audit. If there are any questions on the purpose or content of these letters please contact the engagement partner identified in the attached engagement letter.

Restriction on Use

This information is intended solely for the use of the members of the Board of Trustees and management of Chandler Worker's Compensation and Employer Liability Trust and is not intended to be, and should not be, used by anyone other than these specified parties.

Very truly yours,

Heinfeld Meech & Co. PC

Heinfeld, Meech & Co., P.C. Tucson, Arizona

Fraud Prevention Checklist

The most cost-effective way to limit fraud losses is to prevent fraud from occurring. This checklist is designed to help organizations test the effectiveness of their fraud prevention measures.

1. Is ongoing anti-fraud training provided to all employees of the organization?

- Do employees understand what constitutes fraud?
- Have the costs of fraud to the company and everyone in it including lost profits, adverse publicity, job loss and decreased morale and productivity been made clear to employees?
- Do employees know where to seek advice when faced with uncertain ethical decisions, and do they believe that they can speak freely?
- Has a policy of zero-tolerance for fraud been communicated to employees through words and actions?

2. Is an effective fraud reporting mechanism in place?

- Have employees been taught how to communicate concerns about known or potential wrongdoing?
- Is there an anonymous reporting channel available to employees, such as a third-party hotline?
- Do employees trust that they can report suspicious activity anonymously and/or confidentially and without fear of reprisal?
- Has it been made clear to employees that reports of suspicious activity will be promptly and thoroughly evaluated?
- Do reporting policies and mechanisms extend to vendors, customers and other outside parties?

3. To increase employees' perception of detection, are the following proactive measures taken and publicized to employees?

- Is possible fraudulent conduct aggressively sought out, rather than dealt with passively?
- Does the organization send the message that it actively seeks out fraudulent conduct through fraud assessment questioning by auditors?
- Are surprise fraud audits performed in addition to regularly scheduled audits?
- Is continuous auditing software used to detect fraud and, if so, has the use of such software been made known throughout the organization?

- 4. Is the management climate/tone at the top one of honesty and integrity?
 - Are employees surveyed to determine the extent to which they believe management acts with honesty and integrity?
 - Are performance goals realistic?
 - Have fraud prevention goals been incorporated into the performance measures against which managers are evaluated and which are used to determine performance-related compensation?
 - Has the organization established, implemented and tested a process for oversight of fraud risks by the board of directors or others charged with governance (e.g., the audit committee)?

5. Are fraud risk assessments performed to proactively identify and mitigate the company's vulnerabilities to internal and external fraud?

- 6. Are strong anti-fraud controls in place and operating effectively, including the following?
 - Proper separation of duties
 - Use of authorizations
 - Physical safeguards
 - Job rotations
 - Mandatory vacations
- 7. Does the internal audit department, if one exists, have adequate resources and authority to operate effectively and without undue influence from senior management?
- 8. Does the hiring policy include the following (where permitted by law)?
 - Past employment verification
 - Criminal and civil background checks
 - Credit checks
 - Drug screening
 - Education verification
 - References check
- 9. Are employee support programs in place to assist employees struggling with addictions, mental/ emotional health, family or financial problems?
- 10. Is an open-door policy in place that allows employees to speak freely about pressures, providing management the opportunity to alleviate such pressures before they become acute?
- 11. Are anonymous surveys conducted to assess employee morale?



August 9, 2021

Board of Trustees and Management Chandler Worker's Compensation and Employer Liability Trust P. O. Box 4008 Chandler, AZ 85244-4008

We are pleased to confirm our understanding of the services we are to provide for Chandler Worker's Compensation and Employer Liability Trust (Trust) for the year ended June 30, 2021. We encourage you to read this letter carefully as it includes important information regarding the services we will be providing to the Trust. If there are any questions on the content of the letter, or the services we will be providing, we would welcome the opportunity to meet with you to discuss this information further.

Audit Scope and Objectives

We will audit the financial statements and the related notes to the financial statements of Chandler Worker's Compensation and Employer Liability Trust as of and for the year ended June 30, 2021.

Accounting standards generally accepted in the United States provide for certain required supplementary information (RSI) to supplement the Trust's basic financial statements. Such information, although not part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. As part of our engagement, we will apply certain limited procedures to the Trust's RSI in accordance with auditing standards generally accepted in the United States of America. These limited procedures will consist of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements. We will not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance. The following RSI is required by generally accepted accounting principles and will be subjected to certain limited procedures, but will not be audited:

1. Management's discussion and analysis

The objectives of our audit are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and issue an auditor's report that includes our opinion about whether your financial statements are fairly presented, in all material respects, in conformity with accounting principles generally accepted in the United States of America. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with auditing standards generally accepted in the United States of America will always detect a material misstatement when it exists. Misstatements, including omissions, can arise from fraud or error and are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment of a reasonable user made based on the financial statements.

An important aspect to our expression of opinions on the financial statements is understanding the concept of materiality. Our determination of materiality is a matter of professional judgment and is affected by our perception of the financial information needs of users of the financial statements. In this context, it is reasonable for us to assume that users –

- 1. have a reasonable knowledge of business and economic activities and accounting principles, and a willingness to study the information in the financial statements with reasonable diligence;
- 2. understand that financial statements are prepared, presented, and audited to levels of materiality;
- 3. recognize the uncertainties inherent in the measurement of amounts based on the use of estimates, judgment, and the consideration of future events; and
- 4. make reasonable economic decisions on the basis of the information in the financial statements.

Auditor's Responsibilities for the Audit of the Financial Statements

We will conduct our audit in accordance with auditing standards generally accepted in the United States of America and the standards for financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States, and will include tests of your accounting records and other procedures we consider necessary to enable us to express such opinions. As part of an audit in accordance with auditing standards generally accepted in the United States of America, we exercise professional judgment and maintain professional skepticism throughout the audit.

We will evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management. We will also evaluate the overall presentation of the financial statements, including the disclosures, and determine whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation. We will plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether from (1) errors, (2) fraudulent financial reporting, (3) misappropriation of assets, or (4) violations of laws or governmental regulations that are attributable to the Trust or to acts by management or employees acting on behalf of the Trust. Because the determination of abuse is subjective, *Government Auditing Standards* do not expect auditors to perform specific procedures to detect waste or abuse in the financial statements nor do they expect auditors to provide reasonable assurance of detecting waste or abuse.

Because of the inherent limitations of an audit, combined with the inherent limitations of internal control, and because we will not perform a detailed examination of all transactions, there is an unavoidable risk that some material misstatements may not be detected by us, even though the audit is properly planned and performed in accordance with auditing standards generally accepted in the United States of America and *Government Auditing Standards*. In addition, an audit is not designed to detect immaterial misstatements or violations of laws or governmental regulations that do not have a direct and material effect on the financial statements. However, we will inform the appropriate level of management of any material errors, fraudulent financial reporting, or misappropriation of assets that comes to our attention. We will also inform the appropriate level of management of any violations that come to our attention, unless clearly inconsequential. We will include such matters in the report the *Government Auditing Standards* report on internal control over financial reporting and on compliance and other matters. Our responsibility as auditors is limited to the period covered by our audit and does not extend to any later periods for which we are not engaged as auditors.

We will obtain an understanding of the Trust and its environment, including internal control relevant to the audit, sufficient to identify and assess the risks of material misstatement of the financial statements, whether due to error or fraud, and to design and perform audit procedures responsive to those risks and obtain evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentation, or the override of internal control. An audit is not designed to provide assurance on internal control or to identify deficiencies in internal control. Accordingly, we will express no such opinion. However, during the audit, we will communicate to you and those charged with governance internal control related matters that are required to be communicated under professional standards.

We will also conclude, based on the audit evidence obtained, whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Trust's ability to continue as a going concern for a reasonable period of time.

Our procedures will include tests of documentary evidence supporting the transactions recorded in the accounts. Our procedures will also include, as deemed necessary, tests of the physical existence of inventories, and direct confirmation of receivables and certain assets and liabilities by correspondence with selected individuals, funding sources, creditors, and financial institutions. We will also request, if deemed necessary, written representations from the Trust's attorneys as part of the engagement, and they may bill you for responding to this inquiry.

An audit is not designed to provide assurance on internal control or to identify significant deficiencies or material weaknesses. Accordingly, we will express no such opinion in our report on internal control issued pursuant to *Government Auditing Standards*. However, during the audit, we will communicate to management and those charged with governance internal control related matters that are required to be communicated under AICPA professional standards and *Government Auditing Standards*.

As part of obtaining reasonable assurance about whether the financial statements are free of material misstatement, we will perform tests of the Trust's compliance with applicable laws, regulations, contracts, and agreements, including grant agreements. However, the objective of those procedures will not be to provide an opinion on overall compliance and we will not express such an opinion in our report on compliance issued pursuant to *Government Auditing Standards*.

Reporting

We will issue a written report upon completion of our audit of Chandler Worker's Compensation and Employer Liability Trust's financial statements. Our report will be addressed to the Governing Board of the Trust. Circumstances may arise in which our report may differ from its expected form and content based on the results of our audit. Depending on the nature of these circumstances, it may be necessary for us to modify our opinion or add an emphasis-of-matter or other-matter paragraph to our auditor's report, or if necessary, withdraw from this engagement. If our opinion is other than unmodified, we will discuss the reasons with you in advance. If, for any reason, we are unable to complete the audit or are unable to form or have not formed an opinion, we may decline to express an opinion or withdraw from this engagement.

We will issue a written report on Internal control over financial reporting and compliance with provisions of laws, regulations, contracts, and award agreements, noncompliance with which could have a material effect on the financial statements in accordance with *Government Auditing Standards*. The *Government Auditing Standards* report on internal control over financial reporting and on compliance and other matters will include a paragraph that states that (1) the purpose of the report is solely to describe the scope of testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance, and (2) the report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance.

Nonaudit Services

As part of the audit, we will assist with preparation of your financial statements and notes to the financial statements. You have expressed your intention to use these nonaudit services within the scope of your request for proposal for audit services. These nonaudit services do not constitute an audit and such services will not be conducted in accordance with *Government Auditing Standards*.

Upon engagement of the audit we will utilize the general ledger, accounting records, Trust prepared schedules and other information provided by Trust personnel in order to prepare the necessary yearend adjusting journal entries and to prepare drafts of the financial statements and notes to the financial statements. You are responsible for the information provided by the Trust and for assuming all management responsibilities related to the financial statements, notes to the financial statements, and the nonaudit services we provide. You are also responsible for designing, implementing, and maintaining internal controls over the financial statements process. Prior to their issuance you will be required to acknowledge in the management representation letter that you have reviewed and approved the financial statements and acknowledge that you have accepted responsibility for them. Further, you are required to designate an individual with suitable skill, knowledge, or experience to oversee the nonaudit services we provide; evaluate the adequacy and results of these nonaudit services; and accept responsibility for the nonaudit services.

As the Trust's independent auditor, professional standards place specific requirements on our provision of certain nonaudit services. We are strictly prohibited from assuming management responsibilities or making management decisions; therefore, the nonaudit services we provide are limited to those indicated above. We, in our sole professional judgment, reserve the right to refuse to perform any procedure or take any action that could be construed as assuming management responsibilities or making management decisions. Accordingly, to maintain our independence it is imperative that management understand its responsibilities and is capable of fulfilling these responsibilities. If there are any questions or concerns regarding management's responsibilities or ability to fulfill these responsibilities we request that you immediately contact us so that we may assess the circumstance and our continued independence with respect to providing audit services.

Responsibilities of Management for the Financial Statements

Our audit will be conducted on the basis that you acknowledge and understand your responsibility for designing, implementing, and maintaining internal controls relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error, including monitoring ongoing activities; for the selection and application of accounting principles; and for the preparation and fair presentation of the financial statements in conformity with accounting principles generally accepted in the United States of America.

Management is also responsible for making all financial records, and related information available to us and for the accuracy and completeness of that information (including information from outside of the general and subsidiary ledgers). You are also responsible for providing us with (1) access to all information of which you are aware that is relevant to the preparation and fair presentation of the financial statements, such as records, documentation, identification of all related parties and all related-party relationships and transactions, and other matters; (2) additional information that we may request for the purpose of the audit; (3) other information as needed to perform an audit under *Government Auditing Standards*; (4) and unrestricted access to persons within the Trust from whom we determine it necessary to obtain audit evidence. At the conclusion of our audit, we will require certain written representations from you about the financial statements; compliance with laws, regulations, contracts, and grant agreements; and other responsibilities required by generally accepted auditing standards.

Management's responsibilities also include adjusting the financial statements to correct material misstatements and confirming to us in the representation letter that the effects of any uncorrected misstatements aggregated by us during the current engagement and pertaining to the latest period presented are immaterial, both individually and in the aggregate, to the financial statements taken as a whole.

Management is responsible for the financial statements and all accompanying information as well as all representations contained therein. Management is also responsible for identifying government award programs and understanding and complying with the compliance requirements.

Management is responsible for (1) designing, implementing, establishing and maintaining effective internal controls relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error, including internal controls over federal awards, and for evaluating and monitoring ongoing activities, to help ensure that appropriate goals and objectives are met; (2) following laws and regulations; (3) ensuring that there is reasonable assurance that government programs are administered in compliance with compliance requirements; and (4) ensuring that management is reliable and financial information is reliable and properly reported. Management is also responsible for implementing systems designed to achieve compliance with applicable laws, regulations, contracts, and grant agreements. You are also responsible for the selection and application of accounting principles; for the preparation and fair presentation of the financial statements, and all accompanying information in conformity with accounting principles generally accepted in the United States of America; and for compliance with applicable laws and regulations (including federal statutes) and the provisions of contracts and grant agreements (including award agreements). Your responsibilities also include identifying significant contractor relationships in which the contractor has responsibility for program compliance and for the accuracy and completeness of that information.

Management is required to disclose in the financial statements the date through which subsequent events have been evaluated and whether that date is the date the financial statements were issued or were available to be issued. You agree that you will not date the subsequent event note earlier than the date of your management representation letter. Management is responsible for establishing and maintaining a process for tracking the status of audit findings and recommendations. Management is also responsible for identifying and providing report copies of previous financial audits, attestation engagements, performance audits or studies related to the objectives discussed in the Audit Objectives section of this letter. This responsibility includes relaying to us corrective actions taken to address significant findings and recommendations resulting from those audits, attestation engagements, performance audits or studies. You are also responsible for providing management's views on our current findings, conclusions, and recommendations, as well as your planned corrective actions, for the report, and for the timing and format for providing that information.

With regard to the electronic dissemination of audited financial statements, including financial statements published electronically on your website, management understands that electronic sites are a means to distribute information and, therefore, we are not required to read the information contained in these sites or to consider the consistency of other information in the electronic site with the original document.

Planned Scope and Timing of the Audit

An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements; therefore, our audit will involve judgment about the number of transactions to be examined and the areas to be tested. Our tests will not include a detailed check of all transactions for the period.

We have identified the following significant risks of material misstatement as part of our audit planning:

- 1. Management override of controls
- 2. Improper revenue recognition

Our audit will include obtaining an understanding of the entity and its environment, including internal control, sufficient to assess the risks of material misstatement of the financial statements and to design the nature, timing, and extent of further audit procedures. Material misstatements may result from (1) errors, (2) fraudulent financial reporting, (3) misappropriation of assets, or (4) violations of laws or governmental regulations that are attributable to the entity or to acts by management or employees acting on behalf of the entity. We will generally communicate our significant findings at the conclusion of the audit. However, some matters could be communicated sooner, particularly if significant difficulties are encountered during the audit where assistance is needed to overcome the difficulties or if the difficulties may lead to a modified opinion. We will also communicate any internal control related matters that are required to be communicated under professional standards.

We expect to begin our audit in August 2021 and conclude audit procedures and date our report in December 2021.

Use of Third-Party Service Providers

We maintain internal policies, procedures, and safeguards to protect the confidentiality of your information. We may, depending on the circumstances, use third-party service providers in providing our professional services. The following service providers may be utilized in the completion of our engagement:

- Capital Confirmation, Inc. electronic bank and account balance confirmation service
- Wolters Kluwer web-based application service to transfer files
- Harvest Investments, Ltd. investment portfolio valuation service

You hereby consent and authorize us to use the above service providers, if deemed necessary, to complete the professional services outlined in this letter.

Engagement Administration, Fees, and Other

Mike Hoerig is the engagement partner and is responsible for supervising the engagement and signing the reports or authorizing another individual to sign them.

We will provide copies of our reports to the Trust; however, management is responsible for distribution of the reports and the financial statements.

The audit documentation for this engagement is the property of Heinfeld, Meech & Co., P.C., and constitutes confidential information. However, we may be requested to make certain audit documentation available to a cognizant or oversight agency or its designee, a federal agency providing direct or indirect funding, the U.S. Government Accountability Office, or other authorized governmental agency for the purposes of a quality review of the audit, to resolve audit findings, or to carry out oversight responsibilities. We will notify you of any such request. If requested, access to such audit documentation will be provided under the supervision of Heinfeld, Meech & Co., P.C., personnel. Furthermore, upon request, we may provide copies of selected audit documentation to the aforementioned parties. These parties may intend, or decide, to distribute the copies or information contained therein to others, including other governmental agencies.

The audit documentation for this engagement will be retained for a minimum of five (5) years after the report release date, or for any additional period requested by a regulator, cognizant agency, oversight agency for audit, or pass-through entity. Upon expiration of the five year period, or any additional period, we will commence the process of destroying the contents of our engagement files. If we are aware that a federal awarding agency, pass-through entity, or auditee is contesting an audit finding, we will contact the party(ies) contesting the audit finding for guidance prior to destroying the audit documentation.

In the event we are required to respond to a subpoena, court order or other legal process for the production of documents and/or testimony relative to information we obtained and/or prepared during the course of this engagement, you agree to compensate us at our hourly rates, for the time we expend in connection with such response, and to reimburse us for all of our out-of-pocket costs incurred in that regard.

Any disagreement, controversy, or claim ("dispute") that may arise from any aspect of our services, including this engagement or any prior engagement, will be submitted to mediation. The parties will engage in the mediation process in good faith once a written request to mediate has been given by any party. Any mediation initiated as a result of this engagement shall be administered by The American Arbitration Association, according to its mediation rules before resorting to litigation. The results of any such mediation shall be binding only upon agreement of each party to be bound. Each party will bear its own costs in the mediation. The fees and expenses of the mediator will be shared equally.

The nature of our services makes it difficult, with the passage of time, to gather and present evidence that fully and fairly establishes the facts underlying any dispute that may arise between us. The parties agree that, notwithstanding any statute or law of limitations that might otherwise apply to a dispute, including one arising out of this agreement or the services performed under this agreement, for breach of contract or fiduciary duty, tort, fraud, misrepresentation or any other cause of action or remedy, any action or legal proceeding by you against us must be commenced within twenty-four (24) months ("limitation period") after the date when we deliver our final audit report under this agreement to you, regardless of whether we do other services for you relating to the audit report, or you shall be forever barred from commencing a lawsuit or obtaining any legal or equitable relief or recovery. The limitation period applies and begins to run even if you have not suffered any damage or loss, or have not become aware of the existence or possible existence of a dispute.

Professional standards prohibit auditors from agreeing to indemnify attest clients for damages, losses or costs arising from lawsuits, claims or settlements that relate, directly or indirectly, to the client's acts. As such, professional standards will prevail for indemnification clauses included in audit contracts. In addition, we are unable to obtain waivers on our professional liability insurance policy for certain provisions, including indemnification provisions, provisions requiring the firm to name the Trust as an additional insured party, and a waiver of subrogation rights.

Professional standards require us to be independent with respect to you in the performance of these services. Any discussion that you have with our personnel regarding potential employment with you could impair our independence with respect to this engagement. Therefore, we request that you inform us prior to any such discussions so that we can implement appropriate safeguards to maintain our independence and objectivity. Further, any employment offers to any staff members working on this engagement without our prior knowledge may require substantial additional procedures to ensure our independence. You will be responsible for any additional costs incurred to perform these procedures.

Our fee for these services will be \$6,950. We exercised care in estimating the fee and believe it accurately indicates the scope of the work. Our invoices for these fees will be rendered each month as work progresses and are payable on presentation.

Our fees are based on anticipated cooperation from your personnel, timely receipt of information, and the assumption that unexpected circumstances will not be encountered during the audit, including factors beyond our control, such as new accounting pronouncements or legal requirements, additional consultation, and assistance in correcting errors in your financial records. We will plan the engagement based on the assumption that your personnel will prepare and provide us with the items listed in our request for audit information, including preparing requested schedules, retrieving supporting documents, and preparing confirmations. If, for whatever reason, your personnel are unavailable to provide the necessary assistance in a timely manner, it may substantially increase the work we have to do to complete the engagement within the established deadlines, resulting in an increase in fees over our original fee estimate. If significant additional time is necessary, we will discuss it with you and arrive at a new fee estimate before we incur the additional costs. Additional fees incurred will be billed at the following hourly rates: Partner - \$284; Manager - \$207; Senior - \$163; Staff - \$114.

If any term or provision of this agreement is determined to be invalid or unenforceable, such term or provision will be deemed stricken, and all other terms and provisions will remain in full force and effect.

Government Auditing Standards require that we provide you with a copy of our most recent external peer review report and any letter of comment, and any subsequent peer review reports and letters of comment received during the period of the contract. Our 2018 peer review report accompanies this letter.

We appreciate the opportunity to be of service to you and believe this letter accurately summarizes the significant terms of our engagement. Please feel free to contact us at any time if you have any questions or concerns. If you have any questions regarding this letter, please let us know. If you agree with the terms of our engagement as described in this letter, please sign the enclosed copy and return it to us.

Very truly yours,

Heinfeld Meech & Co. PC

Heinfeld, Meech & Co., P.C. Tucson, Arizona

cc: Dawn Lang, Management Services Director Kristi Smith, Accounting Manager

RESPONSE

Please indicate the name of the individual responsible for overseeing the nonaudit services of preparing the year-end adjusting journal entries and the preparation of the financial statements:

Kristi Smith Name:

This letter correctly sets forth the understanding of Chandler Worker's Compensation and Employer Liability Trust.

Printed Name: Dawn Lang Title: Management Services Director | CFO Signature: Dawn Lang Dawn Lang Signature: 08/10/2021 Date: 08/10/2021

Grant Bennett Associates

A PROFESSIONAL CORPORATION

Report on the Firm's System of Quality Control

August 16, 2018

To the Shareholders of Heinfeld, Meech & Co., P. C. and the Peer Review Committee of the California Society of CPAs

We have reviewed the system of quality control for the accounting and auditing practice of Heinfeld, Meech & Co., P. C. (the firm) in effect for the year ended May 31, 2018. Our peer review was conducted in accordance with the Standards for Performing and Reporting on Peer Reviews established by the Peer Review Board of the American Institute of Certified Public Accountants (Standards).

A summary of the nature, objectives, scope, limitations of, and the procedures performed in a System Review as described in the Standards may be found at www.aicpa.org/prsummary. The summary also includes an explanation of how engagements identified as not performed or reported in conformity with applicable professional standards, if any, are evaluated by a peer reviewer to determine a peer review rating.

Firm's Responsibility

The firm is responsible for designing a system of quality control and complying with it to provide the firm with reasonable assurance of performing and reporting in conformity with applicable professional standards in all material respects. The firm is also responsible for evaluating actions to promptly remediate engagements deemed as not performed or reported in conformity with professional standards, when appropriate, and for remediating weaknesses in its system of quality control, if any.

Peer Reviewer's Responsibility

Our responsibility is to express an opinion on the design of the system of quality control and the firm's compliance therewith based on our review.

Required Selections and Considerations

Engagements selected for review included engagements performed under *Government Auditing Standards*, including compliance audits under the Single Audit Act and an audit of an employee benefit plan.

As a part of our peer review, we considered reviews by regulatory entities as communicated by the firm, if applicable, in determining the nature and extent of our procedures.

Opinion

In our opinion, the system of quality control for the accounting and auditing practice of Heinfeld, Meech & Co., P. C. in effect for the year ended May 31, 2018, has been suitably designed and complied with to provide the firm with reasonable assurance of performing and reporting in conformity with applicable professional standards in all material respects. Firms can receive a rating of *pass, pass with deficiency(ies)* or *fail*. Heinfeld, Meech & Co., P. C. has received a peer review rating of *pass*.

Konnett J

GRANT BENNETT ASSOCIATES A PROFESSIONAL CORPORATION Certified Public Accountants



1375 Exposition Boulevard, Suite 230 Sacramento, CA 95815 916/922-5109 FAX 916/641-5200 P.O. Box 223096 Princeville, HI 96722 888/769-7323



Heinfeld, Meech & Co., P.C. CPAs and Business Consultants 10120 N. Oracle Road Tucson, AZ 85704

This representation letter is provided in connection with your audit of the financial statements of Chandler Worker's Compensation and Employer Liability Trust (Trust), an internal service fund of the City of Chandler, Arizona, which comprises the financial position as of June 30, 2021, and the respective changes in financial position and cash flows for the period then ended, and the disclosures (collectively the "financial statements"), for the purpose of expressing opinions as to whether the financial statements are presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America (U.S. GAAP).

Certain representations in this letter are described as being limited to matters that are material. Items are considered material, regardless of size, if they involve an omission or misstatement of accounting information that, in light of surrounding circumstances, makes it probable that the judgment of a reasonable person relying on the information would be changed or influenced by the omission or misstatement. An omission or misstatement that is monetarily small in amount could be considered material as a result of qualitative factors.

We confirm, to the best of our knowledge and belief, as of the date of our signature, the following representations made to you during your audit.

Financial Statements

- 1. We have fulfilled our responsibilities, as set out in the terms of the audit engagement letter, including our responsibility for the preparation and fair presentation of the financial statements in accordance with U.S. GAAP.
- 2. The financial statements referred to above are fairly presented in conformity with U.S. GAAP and include all properly classified financial information required by generally accepted accounting principles to be included in the financial reporting entity.
- 3. We acknowledge our responsibility for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.
- 4. We acknowledge our responsibility for the design, implementation, and maintenance of internal control to prevent and detect fraud.

Mailing Address Mail Stop 609 P.O. Box 4008 Chandler, AZ 85244-4008

Management Services

Administration 480-782-2250 480-782-2553 Fax chandleraz.gov

Location Third Floor 175 S. Arizona Ave. Chandler, AZ 85225

- 5. Significant assumptions we used in making accounting estimates, including those measured at fair value, are reasonable.
- 6. Related party relationships and transactions, including revenues, expenditures/expenses, loans, transfers, leasing arrangements, and guarantees, and amounts receivable from or payable to related parties have been appropriately accounted for and disclosed in accordance with U.S. GAAP.
- 7. Adjustments or disclosures have been made for all events, including instances of noncompliance, subsequent to the date of the financial statements that would require adjustment to or disclosure in the financial statements or in the schedule of findings and responses.
- 8. The effects of all known actual or possible litigation, claims, and assessments have been evaluated, and if necessary, have been accounted for and disclosed in accordance with U.S. GAAP.
- 9. Guarantees, whether written or oral, under which the Trust is contingently liable, if any, have been properly recorded or disclosed.

Information Provided

- 10. We have provided you with:
 - a. Access to all information, of which we are aware, that is relevant to the preparation and fair presentation of the financial statements, such as records (including information obtained from outside of the general and subsidiary ledgers), documentation, and other matters and all audit or relevant monitoring reports, if any, received from funding sources.
 - b. Additional information that you have requested from us for the purpose of the audit.
 - c. Unrestricted access to persons within the Trust from whom you determined it necessary to obtain audit evidence.
 - d. Minutes of the meetings of the Board of Trustees or summaries of actions of recent meetings for which minutes have not yet been prepared.
- 11. All material transactions have been recorded in the accounting records and are reflected in the financial statements.
- 12. We have disclosed to you the results of our assessment of the risk that the financial statements may be materially misstated as a result of fraud.
- 13. We have no knowledge of any fraud or suspected fraud that affects the Trust and involves:
 - Management,
 - Employees who have significant roles in internal control, or
 - Others where the fraud could have a material effect on the financial statements.

- 14. We have no knowledge of any allegations of fraud or suspected fraud affecting the Trust's financial statements communicated by employees, former employees, grantors, regulators, or others.
- 15. We have no knowledge of any instances of noncompliance or suspected noncompliance with provisions of laws, regulations, contracts, or grant agreements, or waste or abuse, whose effects should be considered when preparing financial statements.
- 16. We have disclosed to you all known actual or possible litigation, claims, and assessments whose effects should be considered when preparing the financial statements.
- 17. We have disclosed to you the identity of the Trust's related parties and all the related party relationships and transactions, including any side agreements.

Government-specific

- 18. There have been no communications from regulatory agencies concerning noncompliance with, or deficiencies in, financial reporting practices.
- 19. If applicable we have taken timely and appropriate steps to remedy fraud, noncompliance with provisions of laws, regulations, contracts, and grant agreements that you have reported to us.
- 20. We have a process to track the status of audit findings and recommendations.
- 21. We have identified and communicated to you any previous audits, attestation engagements, and other studies related to the audit objectives and whether related recommendations have been implemented.
- 22. We have identified to you any investigations or legal proceedings that have been initiated with respect to the period under audit.
- 23. If applicable, we have provided our views on reported findings, conclusions, and recommendations, as well as our planned corrective actions, for the report.
- 24. The Trust has no plans or intentions that may materially affect the carrying value or classification of assets, liabilities, deferred outflows/inflows of resources, and net position.
- 25. We are responsible for compliance with the laws, regulations, and provisions of contracts and grant agreements applicable to us, including tax or debt limits and debt contracts, and legal and contractual provisions for reporting specific activities in separate funds.
- 26. We have appropriately disclosed all information for conduit debt obligations in accordance with U.S. GAAP.

- 27. We have identified and disclosed to you all instances of identified fraud and suspected fraud that we believe have a material effect on the financial statements or other financial data significant to the audit objectives, and any other instances that warrant the attention of those charged with governance.
- 28. We have identified and disclosed to you all instances of identified noncompliance with provisions of contracts and grant agreements that we believe have a material effect on the determination of financial statement amounts or other financial data significant to the audit objectives.
- 29. We have identified and disclosed to you all instances of identified abuse that could be quantitatively or qualitatively material to the financial statements or other financial data significant to the audit objectives.
- 30. There are no violations or possible violations of budget ordinances, laws and regulations (including those pertaining to adopting, approving, and amending budgets), provisions of contracts and grant agreements, tax or debt limits, and any related debt covenants whose effects should be considered for disclosure in the financial statements, or as a basis for recording a loss contingency, or for reporting on noncompliance.
- 31. In addition to your audit, you assisted with preparation of the financial statements and notes to the financial statements. We acknowledge our responsibility as it relates to those nonaudit services, including that
 - we assume all management responsibilities;
 - oversee the nonaudit services by designating an individual, preferably within senior management, who possesses suitable skill, knowledge, or experience;
 - evaluate the adequacy and results of the nonaudit services performed;
 - and accept responsibility for the results of the nonaudit services.
- 32. We have reviewed, approved, and accepted responsibility for the financial statements, and notes to the financial statements.
- 33. The Trust has satisfactory title to all owned assets, and there are no liens or encumbrances on such assets nor has any asset been pledged as collateral.
- 34. The Trust has complied with all aspects of contractual agreements that would have a material effect on the financial statements in the event of noncompliance.
- 35. We have followed all applicable laws and regulations in adopting, approving, and amending budgets.
- 36. If applicable, the financial statements include all component units, appropriately present majority equity interest in legally separate organizations and joint ventures with an equity interest, and properly disclose all other joint ventures and other related organizations.
- 37. The financial statements include all fiduciary activities required by U.S. GAAP.

- 38. The financial statements properly classify all funds and activities in accordance with U.S. GAAP.
- 39. Components of net position are properly classified and, if applicable, approved.
- 40. Investments are properly valued.
- 41. With regard to investments and other instruments reported at fair value:
 - The underlying assumptions are reasonable and they appropriately reflect management's intent and ability to carry out its stated courses of action.
 - The measurement methods and related assumptions used in determining fair value are appropriate in the circumstances and have been consistently applied.
 - The disclosures related to fair values are complete, adequate, and in conformity with U.S. GAAP.
 - There are no subsequent events that require adjustments to the fair value measurements and disclosures included in the financial statements.
- 42. If applicable, provisions for uncollectible receivables have been properly identified and recorded.
- 43. Expenses have been appropriately classified in the statement of revenues, expenses and changes in net position; and allocations have been made on a reasonable basis.
- 44. Revenues are appropriately classified in the statement of revenues, expenses and changes in net position.
- 45. Special and extraordinary items, if any, are appropriately classified and reported.
- 46. Deposits and investment securities are properly classified as to risk and are properly disclosed.
- 47. We have appropriately disclosed the Trust's policy regarding whether to first apply restricted or unrestricted resources when an expense is incurred for purposes for which both restricted and unrestricted net position is available and have determined that net position is properly recognized under the policy.
- 48. We have disclosed to you all significant estimates and material concentrations known to management that are required to be disclosed. Significant estimates are estimates at the balance sheet date that could change materially within the next year. Concentrations refer to volumes of business, revenues, available sources of supply, or markets or geographic areas for which events could occur that would significantly disrupt normal finances within the next year.
- 49. We acknowledge our responsibility for the required supplementary information (RSI). The RSI is measured and presented within prescribed guidelines and the methods of measurement and presentation have not changed from those used in the prior period. We have disclosed to you any significant assumptions and interpretations underlying the measurement and presentation of the RSI.

We have reviewed the drafts of the financial statements and related notes and believe the amounts are properly presented based on the books and records of our Trust. We hereby take responsibility for the financial statements and authorize Heinfeld, Meech & Co., P.C. to issue the reports in final form and to distribute to those parties as outlined in the contract.

We understand that at the conclusion of the audit Heinfeld, Meech & Co, P.C. will submit to the Board of Trustees a communication to those charged with governance that will include a copy of this representation letter and a copy of the engagement letter.

Dawn Lang (Nov 11, 2021 06:45 MST)

11/11/2021

Dawn Lang, Deputy City Manager | CFO Chandler Worker's Compensation and Employer Liability Trust Date



Workers' Compensation And Employer Liability Trust Board Human Resources Memo No.

Date:	02/03/2022
То:	Workers' Compensation And Employer Liability Trust Board
From:	Teresa Canjar, Management Assistant
Subject:	Financial Statements - Management Services

Attachments

Financial Statements

CITY OF CHANDLER Chandler Worker's Compensation and Employer Liability Trust Statement of Net Position December 31, 2021

ASSETS	
Cash and investments	\$ 14,776,429
Accrued interest	18,865
Due from City	101,457
Total assets	14,896,751
LIABILITIES	
Claims payable	31,000
Total current liabilities	31,000
NET POSITION	
Unrestricted	14,865,751
Total net position ⁽¹⁾	\$ 14,865,751

Notes:

		Nominal
⁽¹⁾ Net Position as compared to Reserve Goal:	"Ce	entral" Value
Estimated Unpaid Losses & ALAE, as of 6/30/21	\$	10,458,761
Weighted Projected Ultimate Losses & ALAE		2,700,000
Reserve Goal Based on 6/30/21 Actuarial Report	\$	13,158,761

CITY OF CHANDLER

Chandler Worker's Compensation and Employer Liability Trust Statement of Revenues, Expenses and Changes in Net Position For the Six Months Ended December 31, 2021

		FY 2021-22		Budget to
	FY 2021-22	Budget		Actual
	Budget	Prorated	Actuals	Difference
Contributions:	+ 4000 700	t 0.404.050	+ 0017700	+ 05 04 0
Employer self insurance premiums	\$ 4,383,700	\$ 2,191,850	\$ 2,217,760	\$ 25,910
Total operating revenues	4,383,700	2,191,850	2,217,760	25,910
OPERATING EXPENSES				
Personnel services	490,952	245,476	226,273	(19,203)
Professional services	339,875	169,938	25,878	(144,060)
Operating supplies and maintenance	4,200	2,100	558	(1,542)
Communication and transportation	2,100	1,050	132	(918)
Excess insurance	371,130	371,130	392,736	21,606
Premium insurance	95,000	47,500	28,048	(19,452)
Other insurance	676,429	676,429	676,429	-
Claims paid	4,595,110	2,297,555	1,202,625	(1,094,930)
Other:				
Education and training	2,100	1,050	-	(1,050)
Computer Software	16,389	8,195	6,960	(1,235)
Fiduciary Liability Insurance	-	-	-	-
Total operating expenses	6,593,285	3,820,422	2,559,639	(1,260,783)
OPERATING INCOME (LOSS)	(2,209,585)	(1,628,572)	(341,879)	1,286,693
NONOPERATING REVENUES (EXPENSES):				
Interest income (loss)	166,000	83,000	38,207	(44,793)
Transfers out to technology fund	(3,845)	(3,845)	(3,845)	-
Transfers in from City	-	-	676,429	676,429
Transfers in from Municipal Utilities for Safety Position	58,922	29,462	29,461	(1)
Total nonoperating revenues (expenses)	221,077	108,617	740,252	631,635
Change in net position	(1,988,508)	(1,519,955)	398,373	1,918,328
NET POSITION:				
Total net position, as of July 1, 2021	14,467,378	14,467,378	14,467,378	
Total net position, as of December 31, 2021	\$ 12,478,870	\$ 12,947,423	\$ 14,865,751	\$ 1,918,328

CITY OF CHANDLER Chandler Worker's Compensation and Employer Liability Trust Statement of Cash Flows For the Six Months Ended December 31, 2021

CASH FLOWS FROM OPERATING ACTIVITIES:	
Cash received for premiums	\$ 2,810,547
Cash payments for claims	(1,202,625)
Cash payments to suppliers for other services	(1,205,606)
Cash payments to employees for services	 (226,273)
Net cash provided (used) by operating activities	 176,043
Cash received from the City	705,890
Net cash provided (used) by noncapital financing activities	 705,890
CASH FLOWS FROM INVESTING ACTIVITIES:	
Investment Income	 36,825
Net cash used from investing activites	 36,825
Net increase (decrease) in cash and cash equivalents	 914,913
CASH AND CASH EQUIVALENTS:	
Beginning of year	13,861,516
End of year	\$ 14,776,429
RECONCILIATION OF OPERATING INCOME (LOSS) TO NET CASH PROVIDED (USED) BY OPERATING ACTIVITIES:	
Operating income (loss)	\$ (341,879)
(Increase) decrease in due from City	592,787
(Increase) decrease in accounts receivable	
Increase (decrease) in accounts payable	(22,117)
Increase (decrease) in miscellaneous payables	 (52,748)
Total adjustments	517,922
Net cash provided (used) by operating activities	 176,043


Workers' Compensation And Employer Liability Trust Board Human Resources Memo No.

Date:	02/03/2022
То:	Workers' Compensation And Employer Liability Trust Board
From:	Teresa Canjar, Management Assistant
Subject:	Investment Report - Management Services

Attachments

Investment Report for the Quarter Ending December 31, 2021

pfm **)** asset management

CITY OF CHANDLER WORKERS COMP & EMPLOYER TRUST

Investment Performance Review For the Quarter Ended December 31, 2021

Client Management Team

PFM Asset Management LLC

Paulina Woo, Managing Director Luke Schneider, CFA, Managing Director Annette Gaston, Senior Managing Consultant 1200 South Alma School Rd. Suite 3000 Mesa, AZ 85210 415-470-7815

213 Market Street Harrisburg, PA 17101 717-232-2723

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Agenda

- Market Summary
- Account Summary
- Portfolio Review

Market Summary

Summary

▶ In Q4, U.S. economic conditions were characterized by: (1) a surge in COVID cases as the Omicron variant spread widely; (2) a sharply falling unemployment rate, rising wages, and near-record number of job openings; (3) stickier-than-expected inflation as pent-up consumer demand clashed with continued global supply chain disruptions amid a tight labor market and; (4) a pivot by the Fed to remove monetary accommodation more quickly, setting the stage for rate hikes to begin sooner than previously expected.

► The public health situation remained precarious with the emergence of the Omicron variant to COVID-19. The surge in new cases affected small businesses already challenged by labor shortages and rising prices due to supply chain challenges. The labor market continued to recover, with the unemployment rate falling to a cycle low, plentiful job opportunities and rising wages. Although the economy has largely rebounded from the pandemic-induced recession, the massive monetary and fiscal support from the Fed and Congress has triggered a multi-decade surge in inflation.

▶ While growth is forecast to remain above trend, the real challenge for 2022 is getting inflation down. Mounting inflationary pressures prompted accelerated tapering of bond purchases by the Fed and pulled forward expected rate hikes. Tapering is expected to be complete by mid-March followed by three rate hikes in 2022. The Fed may also let some of its \$8.7 trillion balance sheet roll off sometime later in the year.

Economic Snapshot

► U.S. real GDP growth slowed sharply in Q3 to a modest 2.3%, well below the 6.5% growth rate in the first half of 2021. The lackluster growth reflected a slowdown in consumer spending as the Delta variant dampened confidence and behavior. Personal consumption grew at just 2% compared to the previous quarter's 12%. Nevertheless, economists predict a solid rebound for Q4, with the Atlanta Fed forecasting growth of over 6%.

► The unemployment rate dropped to 3.9% in December, compared to the record low pre-pandemic level of 3.5%. In the past 50 years, unemployment has only been lower during the 22 months prior to the pandemic and for one month in 2000. Although the U.S. economy added a record 6.4 million jobs in 2021, overall employment remains below its pre-pandemic figure largely due to people dropping out of the labor force This imbalance created a shortage of workers and kept pressure on wages as employers battle to attract and retain workers.

► Inflation was shockingly high, with the CPI reaching 7% year-over-year. Sharply higher prices for gasoline, heating oil and other energy products were most pronounced. New and used cars continued to show large price increases, but inflation became more widespread and persistent.

► Manufacturing and services activity chilled a bit with both the ISM Manufacturing and Non-Manufacturing PMI surveys pulling back at quarter end. Nonetheless, both indices remain well above the 50-point threshold indicating growth.

► Demand for homes remained exceptionally strong, but inventories are lean, leading to even higher prices. Higher prices amid higher mortgage rates will negatively affect affordability and present a headwind to further price increases. Existing home sales rose

by 1.9% to a 6.46 million-unit annual rate in November, marking the third consecutive month of increases, while unseasonably mild weather helped boost housing starts by 12%. Bolstered by near-record-low inventories and high backlogs, home builder confidence is near an all-time high.

Interest Rates

► U.S. Treasury yields generally rose in the quarter and the yield curve flattened, as short- to intermediate-term maturities increased between 30 and 40 bps, led higher by expectations for faster Fed rate hikes. Meanwhile, rate changes were more muted to modestly lower on the longer end of the curve, which reflected expectations for longer-term normalization of inflation and GDP growth. At quarter-end, the yield on a 3-month U.S. Treasury Bill stood at 0.03%, the 2-year note rose to 0.73%, the 5-year note climbed to 1.26%, the 10-year note increased to 1.51%, while the 30-year ended the quarter at 1.90%.

► As a result of yield changes over the quarter, U.S. Treasury returns were largely negative, except for the shortest and longest tenors. For example, the 3-month U.S. Treasury index returned 0.01% for the quarter and the 10-year U.S. Treasury index returned 0.75%. Meanwhile, those indexes representing the "belly" of the curve posted negative returns, with the 2-, 3-, and 5-year Treasury indices returning -0.51%, -0.85%, and -0.90%, respectively.

Sector Performance

Investment in non-government sectors was a modest detractor to portfolio performance in Q4 as yield spreads on most investment-grade (IG) fixed-income sectors widened off recent rock bottom levels. As a result, most IG spread sectors produced negative excess returns for Q4, underperforming similar-maturity Treasuries.

► Federal agencies were not immune to the broad spread widening experienced in Q4, generating slightly negative excess returns. Although callable yield spreads widened modestly over the quarter due to an uptick in volatility, spreads generally remained low. Non-callable agencies markedly outperformed their optionable counterparts.

► The taxable municipal sector was one of the best performing IG sectors during Q4, generating positive excess returns. Municipals performed well as lean supply was met with robust demand for new issues, ultimately keeping spreads in check.

► IG corporates slightly underperformed in Q4 after consistently being one of the topperforming sectors in prior quarters, as incremental spreads widened due to rising rates and the prospects for reduced monetary support from the Fed. As a result, IG corporates posted negative excess returns, with longer duration issues underperforming shorter ones. Underperformance was generally consistent across the quality ratings spectrum.

► Federal agency-backed mortgage-backed security (MBS) excess returns were generally negative across most collateral and coupon types except 15-year MBS pass-throughs. Conventional 15-year collateral generated modest outperformance, while 30-year collateral MBS and Agency CMBS underperformed. The Fed's announcement of accelerated asset purchase tapering and the looming balance sheet reduction in combination with slowing refinancing activity has weighed on the sector. It is likely to persist for at least the near term.

Economic Snapshot

Labor Market	L	atest	Sep '21	Dec '20	
Unemployment Rate	Dec'21	3.9%	4.7%	6.7%	Unemployment Rate (left) vs. Change in Non-farm Payrolls (right) Change In Non-Farm Payrolls Unemployment Rate
Change In Non-Farm Payrolls	Dec'21	199,000	379,000	-306,000	16.0% 14.0% 12.0%
Average Hourly Earnings (YoY)	Dec'21	4.7%	4.5%	5.5%	10.0% 8.0% 6.0%
Personal Income (YoY)	Nov'21	7.4%	5.1%	4.8%	4.0% 15-000K 2.0% 20-000K
Initial Jobless Claims (week)	1/1/22	207,000	364,000	763,000	0.0% 25-000K Dec '18 Jun '19 Dec '19 Jun '20 Dec '20 Jun '21 Dec '21
Growth					
Real GDP (QoQ SAAR)	2021Q3	2.3%	6.7% ¹	33.8% ²	Real GDP (QoQ)
GDP Personal Consumption (QoQ SAAR)	2021Q3	2.0%	12.0% ¹	41.4% ²	30% 20% 10%
Retail Sales (YoY)	Nov '21	18.2%	14.2%	2.3%	
ISM Manufacturing Survey (month)	Dec '21	58.7	61.1	60.5	-20% -30% -40%
Existing Home Sales SAAR (month)	Nov '21	6.46 mil.	6.29 mil.	6.65 mil.	Sep '18 Mar '19 Sep '19 Mar '20 Sep '20 Mar '21 Sep '21
Inflation/Prices					
Personal Consumption Expenditures (YoY)	Nov '21	5.7%	4.4%	1.3%	Consumer Price Index —— CPI (YoY) —— Core CPI (YoY)
Consumer Price Index (YoY)	Nov '21	6.8%	5.4%	1.4%	8% 7% 6%
Consumer Price Index Core (YoY)	Nov '21	4.9%	4.0%	1.6%	5% 4% 3%
Crude Oil Futures (WTI, per barrel)	Dec 31	\$75.21	\$75.03	\$48.52	
Gold Futures (oz.)	Dec 31	\$1,829	\$1,755	\$1,895	Dec '18 Jun '19 Dec '19 Jun '20 Dec '20 Jun '21

1. Data as of Second Quarter 2021.

2. Data as of Third Quarter 2020.

Note: YoY = year-over-year, QoQ = quarter-over-quarter, SAAR = seasonally adjusted annual rate, WTI = West Texas Intermediate crude oil. Source: Bloomberg.

Interest Rate Overview



U.S. Treasury Yields

Maturity	Dec '21	Sep '21	Change over Quarter	Dec '20	Change over Year
3-Month	0.04%	0.04%	0.00%	0.07%	(0.03%)
1-Year	0.38%	0.07%	0.31%	0.11%	0.27%
2-Year	0.73%	0.28%	0.45%	0.12%	0.61%
5-Year	1.26%	0.97%	0.29%	0.36%	0.90%
10-Year	1.51%	1.49%	0.02%	0.92%	0.59%
30-Year	1.90%	2.05%	(0.15%)	1.65%	0.25%

Source: Bloomberg.



U.S. Treasury Yield Curve

Yield Curves as of 12/31/2021



ICE BofAML Index Returns

	As of ²	12/31/2021	Returns for Periods ended 12/31/2021		
December 31, 2021	Duration	Yield	3 Month	1 Year	3 Years
1-3 Year Indices					
U.S. Treasury	1.88	0.70%	(0.53%)	(0.55%)	2.01%
Federal Agency	1.78	0.68%	(0.49%)	(0.43%)	1.89%
U.S. Corporates, A-AAA rated	1.83	1.04%	(0.57%)	(0.24%)	2.88%
Agency MBS (0 to 3 years)	1.87	0.78%	(0.63%)	(2.66%)	2.49%
Taxable Municipals	1.51	0.94%	(0.47%)	2.02%	3.58%
1-5 Year Indices					
U.S. Treasury	2.64	0.87%	(0.68%)	(1.10%)	2.42%
Federal Agency	2.39	0.84%	(0.70%)	(0.86%)	2.07%
U.S. Corporates, A-AAA rated	2.75	1.30%	(0.69%)	(0.64%)	3.65%
Agency MBS (0 to 5 years)	2.87	1.64%	(0.75%)	(1.56%)	2.59%
Taxable Municipals	2.52	1.17%	(0.67%)	0.46%	3.34%
Master Indices (Maturities 1	Year or Great	er)			
U.S. Treasury	7.37	1.24%	0.35%	(2.38%)	4.16%
Federal Agency	3.99	1.08%	(0.37%)	(1.15%)	3.43%
U.S. Corporates, A-AAA rated	8.47	2.09%	0.20%	(1.73%)	6.71%
Agency MBS (0 to 30 years)	3.82	1.85%	(0.42%)	(1.21%)	3.08%
Taxable Municipals	11.18	2.55%	0.64%	1.41%	8.83%

Returns for periods greater than one year are annualized.

Disclosures

PFM Asset Management LLC ("PFMAM") is an investment adviser registered with the U.S. Securities and Exchange Commission and a subsidiary of U.S. Bancorp Asset Management, Inc. ("USBAM"). USBAM is a subsidiary of U.S. Bank National Association ("U.S. Bank"). U.S. Bank is a separate entity and subsidiary of U.S. Bancorp. U.S. Bank is not responsible for and does not guarantee the products, services or performance of PFMAM.

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Account Summary

Fixed-Income Sector Commentary – 4Q 2021

- U.S. Treasury securities generated negative performance as yields rose across maturities. The higher absolute level of yields support duration extensions and roll-down where the curve is steep.
- Federal agency spreads widened modestly, generating slightly negative excess returns. Spreads remain tight by historical standards and opportunities to add will be limited.
- Supranational securities performed in line with their federal agency counterparts – supply from seasonal issuance should provide opportunities to add sector exposure.
- Corporates underperformed after consistently being one of the top performing sectors in prior quarters. Modestly wider spreads are likely to provide opportunities to increase exposure on an issuerspecific basis.

- Asset-Backed Securities issuance remains robust and wider spreads enhance the sector's relative value as collateral performance remains strong.
- Mortgage-Backed Securities performance was generally negative across collateral and coupon types with 15-yr MBS pools being the exception. FOMC asset purchase tapering and potential balance sheet reduction will continue to weigh negatively on the sector.
- Taxable Municipal securities were one of the best performing sectors in Q4. Limited supply is likely to keep downward pressure on spreads and limit opportunities to increase allocations.
- Commercial Paper and CD rates gravitated higher throughout the quarter as market expectations for rate hikes sent short maturities higher, creating opportunities to add.

Account Summary

Portfolio Values	December 31, 2021	Analytics ¹	December 31, 2021
PFM Managed Account	\$13,510,358	Yield at Market	0.69%
Amortized Cost	\$13,581,121	Yield on Cost	0.48%
Market Value	\$13,510,358	Portfolio Duration	1.77
Accrued Interest	\$18,865		

1. Yield at market, yield on cost, and portfolio duration only include investments held within the separately managed account(s).



Sector Allocation Analytics

For informational/analytical purposes only and is not provided for compliance assurance.

*Sector Limit for Analysis is subject to interpretation as derived from our interpretation of your Investment Policy as provided. Detail may not add to total due to rounding.

Issuer Diversification

Security Type / Issuer	Market Value (%)	S&P / Moody's / Fitch
U.S. Treasury	51.8%	
UNITED STATES TREASURY	51.8%	AA / Aaa / AAA
Federal Agency	36.2%	
FANNIE MAE	8.0%	AA / Aaa / AAA
FREDDIE MAC	28.2%	AA / Aaa / AAA
Municipal	0.4%	
CITY OF SCOTTSDALE	0.4%	AAA / Aaa / AAA
Negotiable CD	5.7%	
CREDIT SUISSE GROUP RK	0.7%	A / A / A
DNB ASA	0.5%	AA / Aa / NR
HSBC HOLDINGS PLC	0.9%	A / Aa / AA
NORDEA BANK ABP	0.9%	AA / Aa / AA
SKANDINAVISKA ENSKILDA BANKEN AB	1.0%	A / Aa / AA
SUMITOMO MITSUI FINANCIAL GROUP INC	0.6%	A / Aa / A
UBS AG	1.1%	A / Aa / AA
Corporate	5.9%	
ADOBE INC	0.7%	A / A / NR
AMAZON.COM INC	1.3%	AA / A / AA
BANK OF AMERICA CO	0.7%	A / A / AA
CATERPILLAR INC	0.7%	A/A/A
HERSHEY COMPANY	0.7%	A / A / NR
JP MORGAN CHASE & CO	1.3%	A / A / AA
TOYOTA MOTOR CORP	0.6%	A/A/A
Total	100.0%	

Ratings shown are calculated by assigning a numeral value to each security rating, then calculating a weighted average rating for each security type / issuer category using all available security ratings, excluding Not-Rated (NR) ratings. For security type / issuer categories where a rating from the applicable NRSRO is not available, a rating of NR is assigned. Excludes balances invested in money market funds.

Portfolio Review: CHANDLER WORKERS COMP & EMPLOYER TRUST

Portfolio Snapshot¹

Portfolio Statistics

Total Market Value	\$13,539,391
Portfolio Effective Duration	1.77 years
Benchmark Effective Duration	1.82 years
Yield At Cost	0.48%
Yield At Market	0.69%
Portfolio Credit Quality	AA

Credit Quality - S&P²





Duration Distribution



1. Total market value includes accrued interest and balances invested in PFM Funds, as of December 31, 2021. Calculations exclude balances invested in PFM Funds.

2. The portfolio's benchmark is the currently the ICE BofAML 1-3 Year U.S Treasury Index. Prior to 3/31/17 it was the ICE BofAML 0-3 Year U.S Treasury Index. Source: Bloomberg. An average of each security's credit rating was assigned a numeric value and adjusted for its relative weighting in the portfolio.

Liquidity Vehicle	Quarter-End Yield
Wells Fargo Public Institutional Bank Deposit Account ¹	0.01%
First American Funds ²	0.01%

1. Wells Fargo Public Institutional Bank Deposit Account yield from the Trust custody statement as of 12/31/21.

2. First American Funds Account yield from statement as of 12/31/21.

Sector Allocation Review

Security Type	Mar-21	% of Total	Jun-21	% of Total	Sep-21	% of Total	Dec-21	% of Total
U.S. Treasury	\$2.8	23.1%	\$4.1	30.1%	\$6.4	44.0%	\$7.0	51.8%
Federal Agency	\$7.0	57.4%	\$6.2	45.2%	\$5.0	34.4%	\$4.9	36.2%
Municipal	\$0.1	0.4%	\$0.1	0.4%	\$0.1	0.4%	\$0.1	0.4%
Negotiable CD	\$1.1	9.0%	\$1.1	8.1%	\$1.0	6.9%	\$0.8	5.7%
Corporate	\$0.9	7.5%	\$1.0	7.5%	\$0.9	6.2%	\$0.8	5.9%
Local Government Investment Pool	\$0.3	2.6%	\$1.2	8.7%	\$1.2	8.1%	\$0.0	0.0%
Total	\$12.3	100.0%	\$13.7	100.0%	\$14.6	100.0%	\$13.5	100.0%

U.S. Treasury Federal Agency Municipal Negotiable CD Corporate

Local Government Investment Pool



Market values, excluding accrued interest. Only includes investments held within the separately managed account(s). Detail may not add to total due to rounding.



Portfolio Performance

Market Value Basis Earnings	3 Months	1 Year	3 Years	5 Years	Since Inception ¹
Interest Earned	\$20,338	\$81,243	\$420,930	\$604,873	\$1,009,643
Change in Market Value	(\$92,789)	(\$148,144)	(\$118,170)	(\$139,315)	(\$380,640)
Total Dollar Return	(\$72,451)	(\$66,901)	\$302,760	\$465,558	\$629,003
Total Return ²					
Portfolio	-0.50%	-0.46%	1.98%	1.70%	1.25%
Benchmark ³	-0.53%	-0.55%	2.02%	1.60%	0.88%
Difference	0.03%	0.09%	-0.04%	0.10%	0.37%

1. The lesser of 10 years or since inception is shown. Since inception returns for periods one year or less are not shown. Performance inception date is March 31, 2013.

- 2. Returns for periods one year or less are presented on a periodic basis. Returns for periods greater than one year are presented on an annualized basis.
- 3. The portfolio's benchmark is currently the ICE BofAML 1-3 Year U.S Treasury Index. Prior to 3/31/17 it was the ICE BofAML 0-3 Year U.S Treasury Index. Source: Bloomberg.



Accrual Basis Earnings

Accrual Basis Earnings	3 Months	1 Year	3 Years	5 Year	Since Inception ¹
Interest Earned ²	\$20,338	\$81,243	\$420,930	\$604,873	\$1,009,643
Realized Gains / (Losses) ³	\$5,523	\$51,951	\$162,762	\$133,921	\$144,537
Change in Amortized Cost	(\$3,527)	(\$8,911)	\$33,502	\$49,892	(\$194,747)
Total Earnings	\$22,335	\$124,282	\$617,195	\$788,686	\$959,433

1. The lesser of 10 years or since inception is shown. Performance inception date is March 31, 2013.

2. Interest earned calculated as the ending accrued interest less beginning accrued interest, plus net interest activity.

3. Realized gains / (losses) are shown on an amortized cost basis.

Issuer Distribution As of December 31, 2021

Issuer	Market Value (\$)	% of Portfolio
UNITED STATES TREASURY	6,999,130	51.80%
FREDDIE MAC	3,809,081	28.19%
FANNIE MAE	1,077,728	7.98%
JP MORGAN CHASE & CO	172,692	1.28%
AMAZON.COM INC	170,653	1.26%
UBS AG	149,939	1.11%
SKANDINAVISKA ENSKILDA BANKEN AB	131,256	0.97%
HSBC HOLDINGS PLC	120,013	0.89%
NORDEA BANK ABP	116,103	0.86%
ADOBE INC	101,102	0.75%
CREDIT SUISSE GROUP RK	99,978	0.74%
BANK OF AMERICA CO	99,342	0.74%
CATERPILLAR INC	94,716	0.70%
HERSHEY COMPANY	87,934	0.65%
SUMITOMO MITSUI FINANCIAL GROUP INC	85,159	0.63%
TOYOTA MOTOR CORP	75,634	0.56%
DNB ASA	65,924	0.49%
CITY OF SCOTTSDALE	53,975	0.40%
PFM FUNDS - GOVT SELECT, INSTL CL		0.00%
Grand Total	13,510,358	100.00%

Managed Account Detail of Securities Held

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Market Value
U.S. Treasury										
US TREASURY NOTES DTD 11/30/2015 2.000% 11/30/2022	912828M80	20,000.00	AA+	Aaa	8/1/2019	8/2/2019	20,119.53	1.81	35.16	20,290.62
US TREASURY NOTES DTD 12/15/2019 1.625% 12/15/2022	912828YW4	259,000.00	AA+	Aaa	1/3/2020	1/7/2020	259,465.39	1.56	196.56	262,035.17
US TREASURY NOTES DTD 12/31/2015 2.125% 12/31/2022	912828N30	30,000.00	AA+	Aaa	11/1/2019	11/5/2019	30,530.86	1.55	1.76	30,501.56
US TREASURY NOTES DTD 01/15/2020 1.500% 01/15/2023	912828Z29	120,000.00	AA+	Aaa	2/3/2020	2/5/2020	120,585.94	1.33	831.52	121,312.50
US TREASURY NOTES DTD 02/15/2020 1.375% 02/15/2023	912828Z86	530,000.00	AA+	Aaa	3/2/2020	3/4/2020	538,943.75	0.80	2,752.62	535,548.46
US TREASURY N/B NOTES DTD 05/31/2021 0.125% 05/31/2023	91282CCD1	885,000.00	AA+	Aaa	8/2/2021	8/6/2021	884,516.02	0.16	97.25	879,468.75
US TREASURY NOTES DTD 06/15/2020 0.250% 06/15/2023	912828ZU7	230,000.00	AA+	Aaa	8/23/2021	8/24/2021	230,152.73	0.21	26.85	228,921.88
US TREASURY NOTES DTD 10/01/2018 2.875% 09/30/2023	9128285D8	285,000.00	AA+	Aaa	9/27/2021	9/28/2021	299,639.65	0.30	2,093.46	295,865.63
US TREASURY NOTES DTD 01/15/2021 0.125% 01/15/2024	91282CBE0	588,000.00	AA+	Aaa	2/2/2021	2/4/2021	587,058.28	0.18	339.54	580,558.15
US TREASURY NOTES DTD 02/15/2021 0.125% 02/15/2024	91282CBM2	50,000.00	AA+	Aaa	3/1/2021	3/1/2021	49,787.11	0.27	23.61	49,351.56
US TREASURY NOTES DTD 02/15/2021 0.125% 02/15/2024	91282CBM2	375,000.00	AA+	Aaa	3/4/2021	3/9/2021	372,993.16	0.31	177.06	370,136.70
US TREASURY NOTES DTD 02/15/2021 0.125% 02/15/2024	91282CBM2	100,000.00	AA+	Aaa	3/3/2021	3/4/2021	99,511.72	0.29	47.22	98,703.12
US TREASURY NOTES DTD 03/15/2021 0.250% 03/15/2024	91282CBR1	305,000.00	AA+	Aaa	9/27/2021	9/28/2021	303,701.37	0.42	227.49	301,378.12
US TREASURY NOTES DTD 03/15/2021 0.250% 03/15/2024	91282CBR1	625,000.00	AA+	Aaa	4/5/2021	4/7/2021	622,973.63	0.36	466.16	617,578.13
US TREASURY N/B NOTES DTD 04/15/2021 0.375% 04/15/2024	91282CBV2	595,000.00	AA+	Aaa	5/3/2021	5/4/2021	595,952.93	0.32	478.13	588,957.06

Portfolio Holdings

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Market Value
U.S. Treasury										
US TREASURY N/B NOTES DTD 05/15/2021 0.250% 05/15/2024	91282CCC3	200,000.00	AA+	Aaa	6/1/2021	6/2/2021	199,679.69	0.30	64.92	197,281.24
US TREASURY N/B NOTES DTD 09/15/2021 0.375% 09/15/2024	91282CCX7	235,000.00	AA+	Aaa	10/4/2021	10/6/2021	234,127.93	0.50	262.91	231,658.58
US TREASURY N/B NOTES DTD 09/15/2021 0.375% 09/15/2024	91282CCX7	305,000.00	AA+	Aaa	9/27/2021	9/28/2021	303,391.60	0.55	341.23	300,663.27
US TREASURY N/B NOTES DTD 10/15/2021 0.625% 10/15/2024	91282CDB4	105,000.00	AA+	Aaa	11/2/2021	11/3/2021	104,700.59	0.72	140.63	104,146.88
US TREASURY N/B NOTES DTD 11/15/2021 0.750% 11/15/2024	91282CDH1	465,000.00	AA+	Aaa	12/3/2021	12/7/2021	462,983.79	0.90	452.80	462,457.01
US TREASURY NOTES DTD 11/30/2019 1.500% 11/30/2024	912828YV6	260,000.00	AA+	Aaa	6/2/2021	6/4/2021	269,638.28	0.43	342.86	264,062.50
US TREASURY N/B NOTES DTD 12/15/2021 1.000% 12/15/2024	91282CDN8	185,000.00	AA+	Aaa	12/9/2021	12/15/2021	185,028.91	0.99	86.40	185,173.44
US TREASURY NOTES DTD 01/31/2020 1.375% 01/31/2025	912828Z52	270,000.00	AA+	Aaa	7/2/2021	7/7/2021	277,519.92	0.58	1,553.60	273,079.67
Security Type Sub-Total		7,022,000.00					7,053,002.78	0.49	11,039.74	6,999,130.00
Negotiable CD										
HSBC BANK USA NA DTD 02/26/2021 0.250% 02/25/2022	40435RKU4	120,000.00	A-1	P-1	2/26/2021	2/26/2021	120,000.00	0.25	257.50	120,012.84
SUMITOMO MITSUI BANK NY CERT DEPOS DTD 07/14/2020 0.700% 07/08/2022	86565CKU2	85,000.00	A-1	P-1	7/10/2020	7/14/2020	85,000.00	0.70	292.54	85,159.12
UBS AG STAMFORD CT CERT DEPOS DTD 02/18/2021 0.250% 08/16/2022	90275DNC0	150,000.00	A-1	P-1	2/16/2021	2/18/2021	150,000.00	0.25	143.75	149,938.50
NORDEA BANK ABP NEW YORK CERT DEPOS DTD 08/29/2019 1.850% 08/26/2022	65558TLL7	115,000.00	A-1+	P-1	8/27/2019	8/29/2019	115,000.00	1.84	756.44	116,103.43
SKANDINAV ENSKILDA BANK LT CD DTD 09/03/2019 1.860% 08/26/2022	83050PDR7	130,000.00	A-1	P-1	8/29/2019	9/3/2019	130,000.00	1.85	859.73	131,255.67
DNB BANK ASA/NY LT CD DTD 12/06/2019 2.040% 12/02/2022	23341VZT1	65,000.00	A-1+	P-1	12/5/2019	12/6/2019	65,000.00	2.03	110.50	65,924.24

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Market Value
Negotiable CD										
CREDIT SUISSE NEW YORK CERT DEPOS DTD 03/23/2021 0.590% 03/17/2023	22552G3C2	100,000.00	A+	A1	3/19/2021	3/23/2021	100,000.00	0.59	465.44	99,977.80
Security Type Sub-Total		765,000.00					765,000.00	1.01	2,885.90	768,371.60
Municipal										
SCOTTSDALE, AZ TXBL GO BONDS DTD 12/30/2020 0.608% 07/01/2025	810454BL1	55,000.00	AAA	Aaa	12/10/2020	12/30/2020	55,000.00	0.61	167.20	53,975.35
Security Type Sub-Total		55,000.00					55,000.00	0.61	167.20	53,975.35
Local Government Investment Pool										
PFM Funds - Govt Select, Instl Cl		0.00	AAAm	NR			0.00		0.00	0.00
Security Type Sub-Total		0.00					0.00	0.00	0.00	0.00
Federal Agency										
FREDDIE MAC NOTES DTD 04/20/2020 0.375% 04/20/2023	3137EAEQ8	150,000.00	AA+	Aaa	4/17/2020	4/20/2020	149,625.00	0.46	110.94	149,730.45
FREDDIE MAC NOTES DTD 05/07/2020 0.375% 05/05/2023	3137EAER6	100,000.00	AA+	Aaa	8/3/2020	8/4/2020	100,490.00	0.20	58.33	99,774.60
FREDDIE MAC NOTES DTD 05/07/2020 0.375% 05/05/2023	3137EAER6	375,000.00	AA+	Aaa	5/7/2020	5/8/2020	375,558.75	0.32	218.75	374,154.75
FREDDIE MAC NOTES DTD 05/07/2020 0.375% 05/05/2023	3137EAER6	1,295,000.00	AA+	Aaa	6/2/2020	6/5/2020	1,297,408.70	0.31	755.42	1,292,081.07
FANNIE MAE NOTES DTD 05/22/2020 0.250% 05/22/2023	3135G04Q3	135,000.00	AA+	Aaa	5/20/2020	5/22/2020	134,593.65	0.35	36.56	134,433.81
FREDDIE MAC NOTES DTD 06/26/2020 0.250% 06/26/2023	3137EAES4	160,000.00	AA+	Aaa	6/24/2020	6/26/2020	159,532.80	0.35	5.56	159,212.96
FANNIE MAE NOTES 3135G05G4 210,000 DTD 07/10/2020 0.250% 07/10/2023 3135G05G4 210,000		210,000.00	AA+	Aaa	7/8/2020	7/10/2020	209,548.50	0.32	249.38	208,845.21

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Market Value
Federal Agency										
FANNIE MAE NOTES (CALLABLE) DTD 08/10/2020 0.300% 08/10/2023	3135G05R0	240,000.00	AA+	Aaa	8/11/2020	8/12/2020	239,568.00	0.36	282.00	238,532.16
FANNIE MAE NOTES (CALLABLE) DTD 08/18/2020 0.360% 08/18/2023	3135G05V1	145,000.00	AA+	Aaa	8/20/2020	8/21/2020	145,000.00	0.36	192.85	144,220.63
FREDDIE MAC NOTES DTD 08/21/2020 0.250% 08/24/2023	3137EAEV7	105,000.00	AA+	Aaa	8/19/2020	8/21/2020	104,892.90	0.28	92.60	104,325.17
FREDDIE MAC NOTES DTD 09/04/2020 0.250% 09/08/2023	3137EAEW5	50,000.00	AA+	Aaa	9/2/2020	9/4/2020	50,009.13	0.24	39.24	49,637.85
FREDDIE MAC NOTES DTD 09/04/2020 0.250% 09/08/2023	3137EAEW5	70,000.00	AA+	Aaa	9/2/2020	9/4/2020	69,976.90	0.26	54.93	69,492.99
FREDDIE MAC NOTES DTD 10/16/2020 0.125% 10/16/2023	3137EAEY1	155,000.00	AA+	Aaa	10/14/2020	10/16/2020	154,421.85	0.25	40.36	153,382.11
FREDDIE MAC NOTES DTD 11/05/2020 0.250% 11/06/2023	3137EAEZ8	570,000.00	AA+	Aaa	11/3/2020	11/5/2020	569,487.00	0.28	217.71	564,960.63
FANNIE MAE NOTES DTD 11/25/2020 0.250% 11/27/2023	3135G06H1	150,000.00	AA+	Aaa	11/23/2020	11/25/2020	149,829.00	0.29	35.42	148,604.10
FANNIE MAE NOTES DTD 11/25/2020 0.250% 11/27/2023	3135G06H1	205,000.00	AA+	Aaa	1/7/2021	1/8/2021	205,055.35	0.24	48.40	203,092.27
FREDDIE MAC NOTES DTD 12/04/2020 0.250% 12/04/2023	3137EAFA2	95,000.00	AA+	Aaa	12/2/2020	12/4/2020	94,905.95	0.28	17.81	94,088.95
FREDDIE MAC NOTES DTD 12/04/2020 0.250% 12/04/2023	3137EAFA2	705,000.00	AA+	Aaa	12/4/2020	12/7/2020	704,739.15	0.26	132.19	698,239.05
Security Type Sub-Total		4,915,000.00					4,914,642.63	0.30	2,588.45	4,886,808.76
Corporate										
AMAZON.COM INC CORP NOTES DTD 11/29/2012 2.500% 11/29/2022	023135AJ5	100,000.00	AA	A1	6/9/2020	6/11/2020	104,546.00	0.64	222.22	101,382.10
ADOBE INC CORP NOTE DTD 02/03/2020 1.700% 02/01/2023	00724PAA7	100,000.00	A+	A2	1/22/2020	2/3/2020	99,863.00	1.75	708.33	101,101.70
CATERPILLAR FINL SERVICE CORPORATE NOTES DTD 03/01/2021 0.250% 03/01/2023	14913R2J5	95,000.00	A	A2	2/22/2021	3/1/2021	94,918.30	0.29	79.17	94,716.43

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Market Value
Corporate										
HERSHEY COMPANY DTD 05/10/2018 3.375% 05/15/2023	427866AZ1	85,000.00	А	A1	3/11/2020	3/13/2020	88,299.70	2.10	366.56	87,933.69
TOYOTA MOTOR CREDIT CORP CORPORATE NOTES DTD 05/26/2020 1.350% 08/25/2023	89236THA6	75,000.00	A+	A1	5/20/2020	5/26/2020	74,972.25	1.36	354.38	75,633.60
AMAZON.COM INC CORPORATE NOTES DTD 05/12/2021 0.450% 05/12/2024	023135BW5	70,000.00	AA	A1	5/10/2021	5/12/2021	69,897.80	0.50	42.88	69,271.23
BANK OF AMERICA CORP (CALLABLE) CORPORAT DTD 10/21/2020 0.810% 10/24/2024	06051GJH3	100,000.00	A-	A2	10/16/2020	10/21/2020	100,000.00	0.81	150.75	99,341.50
JPMORGAN CHASE & CO CORPORATE NOTES DTD 06/01/2021 0.824% 06/01/2025	46647PCH7	115,000.00	A-	A2	5/24/2021	6/1/2021	115,000.00	0.82	78.97	113,627.02
JPMORGAN CHASE & CO CORPORATE NOTES DTD 08/10/2021 0.768% 08/09/2025	46647PCM6	60,000.00	A-	A2	8/3/2021	8/10/2021	60,000.00	0.77	180.48	59,065.44
Security Type Sub-Total		800,000.00					807,497.05	1.01	2,183.74	802,072.71
Managed Account Sub Total		13,557,000.00					13,595,142.46		18,865.03	13,510,358.42
Securities Sub Total		\$13,557,000.00					\$13,595,142.46		\$18,865.03	\$13,510,358.42
Accrued Interest										\$18,865.03
Total Investments										\$13,529,223.45

Trade Date	Settle Date	Par (\$)	CUSIP	Security Description	Coupon	Maturity Date	Transact Amount (\$)	Yield at Market	Realized G/L (BV)
BUY									
10/4/2021	10/6/2021	235,000.00	91282CCX7	US TREASURY N/B NOTES	0.37%	9/15/2024	234,179.05	0.50%	
11/2/2021	11/3/2021	105,000.00	91282CDB4	US TREASURY N/B NOTES	0.62%	10/15/2024	104,734.84	0.72%	
12/3/2021	12/7/2021	465,000.00	91282CDH1	US TREASURY N/B NOTES	0.75%	11/15/2024	463,195.74	0.90%	
12/9/2021	12/15/2021	185,000.00	91282CDN8	US TREASURY N/B NOTES	1.00%	12/15/2024	185,028.91	0.99%	
Total BUY		990,000.00					987,138.54		0.00
INTEREST									
8/16/2021	10/1/2021	150,000.00	90275DNC0	UBS AG STAMFORD CT CERT DEPOS	0.25%	8/16/2022	186.46		
10/1/2021	10/1/2021		MONEY0002	MONEY MARKET FUND			2.78		
10/15/2021	10/15/2021	595,000.00	91282CBV2	US TREASURY N/B NOTES	0.37%	4/15/2024	1,115.63		
10/16/2021	10/16/2021	155,000.00	3137EAEY1	FREDDIE MAC NOTES	0.12%	10/16/2023	96.88		
10/20/2021	10/20/2021	150,000.00	3137EAEQ8	FREDDIE MAC NOTES	0.37%	4/20/2023	281.25		
10/24/2021	10/24/2021	100,000.00	06051GJH3	BANK OF AMERICA CORP (CALLABLE) CORPORAT	0.81%	10/24/2024	405.00		
11/1/2021	11/1/2021		MONEY0002	MONEY MARKET FUND			0.09		
11/5/2021	11/5/2021	1,770,000.00	3137EAER6	FREDDIE MAC NOTES	0.37%	5/5/2023	3,318.75		
11/6/2021	11/6/2021	570,000.00	3137EAEZ8	FREDDIE MAC NOTES	0.25%	11/6/2023	712.50		
11/12/2021	11/12/2021	70,000.00	023135BW5	AMAZON.COM INC CORPORATE NOTES	0.45%	5/12/2024	157.50		
11/15/2021	11/15/2021	200,000.00	91282CCC3	US TREASURY N/B NOTES	0.25%	5/15/2024	250.00		

Trade Date	Settle Date	Par (\$)	CUSIP	Security Description	Coupon	Maturity Date	Transact Amount (\$)	Yield at Market	Realized G/L (BV)
INTEREST									
11/15/2021	11/15/2021	85,000.00	427866AZ1	HERSHEY COMPANY	3.37%	5/15/2023	1,434.38		
11/15/2021	11/15/2021	340,000.00	912828TY6	US TREASURY NOTES	1.62%	11/15/2022	2,762.50		
11/22/2021	11/22/2021	135,000.00	3135G04Q3	FANNIE MAE NOTES	0.25%	5/22/2023	168.75		
11/27/2021	11/27/2021	355,000.00	3135G06H1	FANNIE MAE NOTES	0.25%	11/27/2023	443.75		
11/29/2021	11/29/2021	100,000.00	023135AJ5	AMAZON.COM INC CORP NOTES	2.50%	11/29/2022	1,250.00		
11/30/2021	11/30/2021	20,000.00	912828M80	US TREASURY NOTES	2.00%	11/30/2022	200.00		
11/30/2021	11/30/2021	260,000.00	912828YV6	US TREASURY NOTES	1.50%	11/30/2024	1,950.00		
11/30/2021	11/30/2021	885,000.00	91282CCD1	US TREASURY N/B NOTES	0.12%	5/31/2023	553.13		
12/1/2021	12/1/2021		MONEY0002	MONEY MARKET FUND			0.15		
12/1/2021	12/1/2021	115,000.00	46647PCH7	JPMORGAN CHASE & CO CORPORATE NOTES	0.82%	6/1/2025	473.80		
12/2/2021	12/2/2021	65,000.00	23341VZT1	DNB BANK ASA/NY LT CD	2.04%	12/2/2022	674.05		
12/4/2021	12/4/2021	800,000.00	3137EAFA2	FREDDIE MAC NOTES	0.25%	12/4/2023	1,000.00		
12/15/2021	12/15/2021	230,000.00	912828ZU7	US TREASURY NOTES	0.25%	6/15/2023	287.50		
12/15/2021	12/15/2021	259,000.00	912828YW4	US TREASURY NOTES	1.62%	12/15/2022	2,104.38		
12/26/2021	12/26/2021	160,000.00	3137EAES4	FREDDIE MAC NOTES	0.25%	6/26/2023	200.00		
12/31/2021	12/31/2021	30,000.00	912828N30	US TREASURY NOTES	2.12%	12/31/2022	318.75		
Total INTER	EST	7,599,000.00					20,347.98		0.00

Trade Date	Settle Date	Par (\$)	CUSIP	Security Description	Coupon	Maturity Date	Transact Amount (\$)	Yield at Market	Realized G/L (BV)
SELL									
10/4/2021	10/6/2021	235,000.00	06742TWL6	BARCLAYS BANK PLC NY CERT DEPOS	0.29%	2/4/2022	235,556.98		110.22
11/2/2021	11/3/2021	105,000.00	3137EAET2	FREDDIE MAC NOTES	0.12%	7/25/2022	105,036.78		86.63
12/3/2021	12/7/2021	100,000.00	02665WCY5	AMERICAN HONDA FINANCE	2.20%	6/27/2022	101,896.78		999.76
12/3/2021	12/7/2021	340,000.00	912828TY6	US TREASURY NOTES	1.62%	11/15/2022	344,599.05		4,326.73
Total SELL		780,000.00					787,089.59		5,523.34

Tran. Type	Trade Date	Settle Date	Par (\$)	CUSIP	Security Description	Coupon	Maturity Date	Transact Amount (\$)	Yield at Market	Realized G/L (BV)
BUY	10/4/2021	10/6/2021	235,000.00	91282CCX7	US TREASURY N/B NOTES	0.37%	9/15/2024	234,179.05	0.50%	
BUY	11/2/2021	11/3/2021	105,000.00	91282CDB4	US TREASURY N/B NOTES	0.62%	10/15/2024	104,734.84	0.72%	
BUY	12/3/2021	12/7/2021	465,000.00	91282CDH1	US TREASURY N/B NOTES	0.75%	11/15/2024	463,195.74	0.90%	
BUY	12/9/2021	12/15/2021	185,000.00	91282CDN8	US TREASURY N/B NOTES	1.00%	12/15/2024	185,028.91	0.99%	
INTEREST	8/16/2021	10/1/2021	150,000.00	90275DNC0	UBS AG STAMFORD CT CERT DEPOS	0.25%	8/16/2022	186.46		
INTEREST	10/1/2021	10/1/2021		MONEY0002	MONEY MARKET FUND			2.78		
INTEREST	10/15/2021	10/15/2021	595,000.00	91282CBV2	US TREASURY N/B NOTES	0.37%	4/15/2024	1,115.63		
INTEREST	10/16/2021	10/16/2021	155,000.00	3137EAEY1	FREDDIE MAC NOTES	0.12%	10/16/2023	96.88		
INTEREST	10/20/2021	10/20/2021	150,000.00	3137EAEQ8	FREDDIE MAC NOTES	0.37%	4/20/2023	281.25		
INTEREST	10/24/2021	10/24/2021	100,000.00	06051GJH3	BANK OF AMERICA CORP (CALLABLE)	0.81%	10/24/2024	405.00		
INTEREST	11/1/2021	11/1/2021		MONEY0002	MONEY MARKET FUND			0.09		
INTEREST	11/5/2021	11/5/2021	1,770,000.00	3137EAER6	FREDDIE MAC NOTES	0.37%	5/5/2023	3,318.75		
INTEREST	11/6/2021	11/6/2021	570,000.00	3137EAEZ8	FREDDIE MAC NOTES	0.25%	11/6/2023	712.50		
INTEREST	11/12/2021	11/12/2021	70,000.00	023135BW5	AMAZON.COM INC CORPORATE NOTES	0.45%	5/12/2024	157.50		
INTEREST	11/15/2021	11/15/2021	200,000.00	91282CCC3	US TREASURY N/B NOTES	0.25%	5/15/2024	250.00		
INTEREST	11/15/2021	11/15/2021	85,000.00	427866AZ1	HERSHEY COMPANY	3.37%	5/15/2023	1,434.38		
INTEREST	11/15/2021	11/15/2021	340,000.00	912828TY6	US TREASURY NOTES	1.62%	11/15/2022	2,762.50		
INTEREST	11/22/2021	11/22/2021	135,000.00	3135G04Q3	FANNIE MAE NOTES	0.25%	5/22/2023	168.75		

Tran. Type	Trade Date	Settle Date	Par (\$)	CUSIP	Security Description	Coupon	Maturity Date	Transact Amount (\$)	Yield at Market	Realized G/L (BV)
INTEREST	11/27/2021	11/27/2021	355,000.00	3135G06H1	FANNIE MAE NOTES	0.25%	11/27/2023	443.75		
INTEREST	11/29/2021	11/29/2021	100,000.00	023135AJ5	AMAZON.COM INC CORP NOTES	2.50%	11/29/2022	1,250.00		
INTEREST	11/30/2021	11/30/2021	20,000.00	912828M80	US TREASURY NOTES	2.00%	11/30/2022	200.00		
INTEREST	11/30/2021	11/30/2021	260,000.00	912828YV6	US TREASURY NOTES	1.50%	11/30/2024	1,950.00		
INTEREST	11/30/2021	11/30/2021	885,000.00	91282CCD1	US TREASURY N/B NOTES	0.12%	5/31/2023	553.13		
INTEREST	12/1/2021	12/1/2021		MONEY0002	MONEY MARKET FUND			0.15		
INTEREST	12/1/2021	12/1/2021	115,000.00	46647PCH7	JPMORGAN CHASE & CO CORPORATE	0.82%	6/1/2025	473.80		
INTEREST	12/2/2021	12/2/2021	65,000.00	23341VZT1	DNB BANK ASA/NY LT CD	2.04%	12/2/2022	674.05		
INTEREST	12/4/2021	12/4/2021	800,000.00	3137EAFA2	FREDDIE MAC NOTES	0.25%	12/4/2023	1,000.00		
INTEREST	12/15/2021	12/15/2021	230,000.00	912828ZU7	US TREASURY NOTES	0.25%	6/15/2023	287.50		
INTEREST	12/15/2021	12/15/2021	259,000.00	912828YW4	US TREASURY NOTES	1.62%	12/15/2022	2,104.38		
INTEREST	12/26/2021	12/26/2021	160,000.00	3137EAES4	FREDDIE MAC NOTES	0.25%	6/26/2023	200.00		
INTEREST	12/31/2021	12/31/2021	30,000.00	912828N30	US TREASURY NOTES	2.12%	12/31/2022	318.75		
SELL	10/4/2021	10/6/2021	235,000.00	06742TWL6	BARCLAYS BANK PLC NY CERT DEPOS	0.29%	2/4/2022	235,556.98		110.22
SELL	11/2/2021	11/3/2021	105,000.00	3137EAET2	FREDDIE MAC NOTES	0.12%	7/25/2022	105,036.78		86.63
SELL	12/3/2021	12/7/2021	100,000.00	02665WCY5	AMERICAN HONDA FINANCE	2.20%	6/27/2022	101,896.78		999.76
SELL	12/3/2021	12/7/2021	340,000.00	912828TY6	US TREASURY NOTES	1.62%	11/15/2022	344,599.05		4,326.73
TOTALS			9,369,000.00					1,794,576.11		5,523.34

Important Disclosures

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- In accordance with generally accepted accounting principles, information is presented on a trade date basis; forward settling purchases are included in the monthly balances, and forward settling sales are excluded.
- Performance is presented in accordance with the CFA Institute's Global Investment Performance Standards (GIPS). Unless otherwise noted, performance is shown gross of fees. Quarterly returns are presented on an unannualized basis. Returns for periods greater than one year are presented on an annualized basis. Past performance is not indicative of future returns.
- Bank of America/Merrill Lynch Indices provided by Bloomberg Financial Markets.
- Money market fund/cash balances are included in performance and duration computations.
- Standard & Poor's is the source of the credit ratings. Distribution of credit rating is exclusive of money market fund/LGIP holdings.
- Callable securities in the portfolio are included in the maturity distribution analysis to their stated maturity date, although, they may be called prior to maturity.
- MBS maturities are represented by expected average life.

Glossary

- Accrued Interest: Interest that is due on a bond or other fixed income security since the last interest payment was made.
- Agencies: Federal agency securities and/or Government-sponsored enterprises.
- Amortized Cost: The original cost of the principal of the security is adjusted for the amount of the periodic reduction of any discount or premium from the purchase date until the date of the report. Discount or premium with respect to short-term securities (those with less than one year to maturity at time of issuance) is amortized on a straight line basis. Such discount or premium with respect to longer-term securities is amortized using the constant yield basis.
- Asset-Backed Security: A financial instrument collateralized by an underlying pool of assets usually ones that generate a cash flow from debt, such as loans, leases, credit card balances, and receivables.
- Bankers' Acceptance: A draft or bill or exchange accepted by a bank or trust company. The accepting institution guarantees payment of the bill as well as the insurer.
- Commercial Paper: An unsecured obligation issued by a corporation or bank to finance its short-term credit needs, such as accounts receivable and inventory.
- Contribution to Total Return: The weight of each individual security multiplied by its return, then summed for each sector to determine how much each sector added or subtracted from the overall portfolio performance.
- Effective Duration: A measure of the sensitivity of a security's price to a change in interest rates, stated in years.
- Effective Yield: The total yield an investor receives in relation to the nominal yield or coupon of a bond. Effective yield takes into account the power of compounding on investment returns, while nominal yield does not.
- FDIC: Federal Deposit Insurance Corporation. A federal agency that insures bank deposits to a specified amount.
- Interest Rate: Interest per year divided by principal amount and expressed as a percentage.
- Market Value: The value that would be received or paid for an investment in an orderly transaction between market participants at the measurement date.
- Maturity: The date upon which the principal or stated value of an investment becomes due and payable.
- Negotiable Certificates of Deposit: A CD with a very large denomination, usually \$1 million or more, that can be traded in secondary markets.
- Par Value: The nominal dollar face amount of a security.
- Pass-through Security: A security representing pooled debt obligations that passes income from debtors to its shareholders. The most common type is the mortgage-backed security.

Glossary

- Repurchase Agreements: A holder of securities sells these securities to an investor with an agreement to repurchase them at a fixed price on a fixed date.
- Settle Date: The date on which the transaction is settled and monies/securities are exchanged. If the settle date of the transaction (i.e., coupon payments and maturity proceeds) occurs on a non-business day, the funds are exchanged on the next business day.
- Supranational: A multinational union or association in which member countries cede authority and sovereignty on at least some internal matters to the group, whose decisions are binding on its members.
- Trade Date: The date on which the transaction occurred; however, the final consummation of the security transaction and payment has not yet taken place.
- Unsettled Trade: A trade which has been executed; however, the final consummation of the security transaction and payment has not yet taken place.
- U.S. Treasury: The department of the U.S. government that issues Treasury securities.
- Yield: The rate of return based on the current market value, the annual interest receipts, maturity value, and the time period remaining until maturity, stated as a percentage on an annualized basis.
- YTM at Cost: The yield to maturity at cost is the expected rate of return based on the original cost, the annual interest receipts, maturity value, and the time period from purchase date to maturity, stated as a percentage on an annualized basis.
- YTM at Market: The yield to maturity at market is the rate of return based on the current market value, the annual interest receipts, maturity value, and the time period remaining until maturity, stated as a percentage on an annualized basis.



Workers' Compensation And Employer Liability Trust Board Human Resources Memo No.

Date:	02/03/2022
То:	Workers' Compensation And Employer Liability Trust Board
From:	Teresa Canjar, Management Assistant
Subject:	Resolution No. WC-009

Proposed Motion:

Move to approve Resolution No. WC-009 for the City of Chandler Workers' Compensation and Employer Trust Liability Trust Fund Board Recommending Workers' Compensation Contribution and Reserve Level for Fiscal Year 2022-23.

Attachments

Resolution WC-009

RESOLUTION NO. WC-009

A RESOLUTION OF THE CITY OF CHANDLER WORKERS' COMPENSATION AND EMPLOYER LIABILITY TRUST BOARD RECOMMENDING WORKERS' COMPENSATION CONTRIBUTION AND RESERVE LEVEL FOR FISCAL YEAR 2022-23

WHEREAS, the City of Chandler Workers' Compensation and Employer Liability Trust Fund ("the Fund") was created by the City of Chandler through Ordinance No. 4415, adopting City Code § 2-16 *et seq.*, on December 10, 2012; and

WHEREAS, City Code § 2-16.3, established the City of Chandler Workers' Compensation and Employer Liability Trust Fund Board ("the Board"); and

WHEREAS, City Code § 2-16.4(a)(2), provides that the Board shall provide financial oversight by evaluating claim expenses and reserve amounts; and

WHEREAS, the Chandler Workers' Compensation and Employer Liability Trust (the Trust") was established by the Chandler Workers' Compensation and Employer Liability Trust Document ("the Trust Document") authorized and approved by the City of Chandler through Resolution No. 4658, adopted on January 24, 2013, and amended by Resolution No. 4835, passed and adopted on February 26, 2015; and

WHEREAS, Article IV, Section 4.03(d), of the Trust Document provides that the Board shall have the authority and responsibility to determine the appropriate amount of Funds that the Trust should hold as Restricted Reserve, provided that the Restricted Reserve shall be no less than the minimum (or nominal) amount recommended and attested by the actuary engaged by the Council to provide services to the Trust. The actuarial report as of June 30, 2021 notes that the actuarial central (nominal) estimate represents the expected value over the range of reasonably possible outcomes (as opposed to all conceivable outcomes); and

WHEREAS, Article V, Section 5.01(a), of the Trust Document provides that the Board shall make an annual recommendation to the City Council of funds anticipated to be needed for the following fiscal year to fulfill the needs and purposes of the Trust. The Council shall make an appropriation of funds to the Trust as part of the annual City budget; and

Resolution No. WC-009 Page 2

WHEREAS, the Board has determined that the current ongoing Workers' Compensation contribution from the City of \$4,383,700 is sufficient to fund the expenditure requirements and no change to the ongoing contribution is needed.

NOW THEREFORE, BE IT RESOLVED that the City of Chandler Workers' Compensation and Employer Liability Trust Board hereby recommends that the current ongoing Workers' Compensation contribution from the City of \$4,383,700 remain unchanged for FY 2022-23.

PASSED AND ADOPTED by the City of Chandler Workers' Compensation and Employer Liability Trust Board on this 3rd day of February, 2022.

Chairperson

City of Chandler Workers' Compensation and Employer Liability Trust Board

Attest:

City Clerk

Approved As To Form:

City Attorney