

**BOARD AGENDA FOR  
CENTRAL WELD COUNTY WATER DISTRICT**

Meeting Time: 1:30 P.M., Thursday, July 15, 2021

Location: Central Weld County Water District – 2235 2<sup>nd</sup> Avenue, Greeley, CO

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ITEM 1: ROLL CALL:

	<u>Directors</u>	<u>Staff</u>
James W. Park	Scott Meining	Stan Linker
Katie Strohauser	Peter Ulrich	Roxanne Garcia
Albert L. Lind, Jr.		

ITEM 2: Public Comment on Non-Agenda Items

ITEM 3: MINUTES

- A. Approval of Minutes dated June 17, 2021

ITEM 4: FINANCIAL REPORTS

- A. Approval of Current Bills
- B. Fund Investment
- C. Budget Reports

ITEM 5: STAFF REPORTS

- A. Incoming Correspondence
- B. Outgoing Correspondence
- C. Field Report
- D. Consumption & Comparison Report
- E. Revenue & Usage Report
- F. NISP
- G. Windy Gap
- H. Manager's Report

ITEM 6: CARTER LAKE FILTER PLANT REPORT

- A. Minutes
- B. Agenda
- C. Project Updates
- D. PreTreatment Updates

ITEM 7: NEW BUSINESS

- A. Tap Fee Agreements
- B. Audit Presentation
- C. Rates and Surcharges
- D. Executive Session - §24-6-402(4)a), C.R.S. concerning the purchase, acquisition, lease, transfer, or sale of any real, personal, or other property interest.
- E. CBT Purchases
- F. September and October Board Meetings

ITEM 8: ADJOURNMENT

**MINUTES FOR  
CENTRAL WELD COUNTY WATER DISTRICT  
REGULAR BOARD MEETING  
JUNE 17, 2021**

The Regular meeting of the Board of Directors of Central Weld County Water District was held on Thursday, June 17, 2021, at approximately 1:30 P.M. The meeting was called to order by James W. Park.

Present: James W. Park, Albert L. Lind, T. Scott Meining, Peter Ulrich, and Katie Strohauer; Board Members; Stan Linker, District Manager and Roxanne Garcia. Absent: none  
Guests Present: none

**PUBLIC COMMENTS:** None

**MINUTES:**

The Minutes of the April 15, 2021 meeting were reviewed by the Board. Katie Strohauer moved and Pete Ulrich seconded to approve the Minutes as written. Motion Passed.

**FINANCIAL REPORTS:**

The financial reports were reviewed for the month of May & June. Carter Lake was for 7MG tank construction and membrane replacements and Filter 23 repair. Sewerin was for the leak detection device and the Safety Grant will reimburse the District for half of the cost. Albert L. Lind moved and Katie Strohauer seconded to approve the financial reports and current bills for payment. Motion Passed.

**INCOMING CORRESPONDENCE:**

The Board reviewed the Incoming Correspondence.

**OUTGOING CORRESPONDENCE:**

The Board reviewed the Outgoing Correspondence.

**FIELD REPORT:**

The Board reviewed and noted the Field Report. The sanitary survey has been completed and the District has added two new Bac-T sample sites based on population.

**CONSUMPTION REPORT:**

The Board reviewed and noted the Consumption Report. Consumption was down in the month of May.

**USAGE & REVENUE REPORT:**

The Board reviewed and noted the Usage and Revenue Report.

**NISP:**

To date the District has paid \$7,959,615.00 for it's portion of engineering and fees.

Regular Board Meeting June 17, 2021

**WINDY GAP REPORT:**

The court has affirmed the agencies' RODs in full. Per the executed WGFP Allotment Contract, CWCWD has a Capital C&E Funding Obligation in the amount of \$2,279,752.48 due this year.

**EXECUTIVE SESSION:**

*It was moved by Albert L. Lind, seconded by T. Scott Meining, to go into Executive Session regarding §24-6-402(4)(e), C.R.S. concerning negotiations. Motion passed. The Board went into Executive Session at 2:10pm and returned at 2:55pm.*

**MANAGER'S REPORT:**

Stan informed the Board that the District has issued terminations again in June. The terminations had not been issued since February 2020 due to COVID restrictions. Twelve customers were terminated for non-payment and later restored. These accounts had not had a payments made since 2020. The Aristocrat Pump Station is undergoing repairs to the outside of the building as the stucco was falling off and there had been water damage on the roof that needed repaired. There is still cleanup being done near the 20" waterline from the DCP gas leak. The negotiation for an easement near the cleanup site is still underway.

**CARTER LAKE FILTER PLANT:**

Connell Resources has been proceeding with the 7 MG tank construction. The fill date of the new tank is still on track for late July 2021. The Filter #23 replacement has been received and repair is completed. The engineer, Burns and McDonnell, wanted a few changes for the pretreatment contract and those are under review with legal counsel. The filter plant manager would like a full time project manager hired during the pretreatment construction. The South Plant is in operation and processing water. New membranes have been installed in the North Plant and approximately 600 more filters have been ordered. The CMAR design for the pretreatment plant is the option the District would like to proceed with.

**TAP FEE AGREEMENTS:**

The following Tap Fee Agreements were reviewed to approve:

	<b>OWNER</b>	<b>TAP SIZE</b>	<b>LOCATION</b>
1	Deborah Howe	5/8"	CR 14.5/21-23
2	Roy Wardell Living Trust	5/8"	CR 39/30-32
3	Kevin & Nancy Brunson	Budget	CR 39/28-30
4	Northstar Homes	Budget	L152 Beebe Draw
5	AU Development – Uhrich w/ line ext	5/8"	CR 38 & 33
6	C-Investments/Topgun Investment	2 - Budget	CR 52/45-47
7	New Expression Homes	Budget	Lot 132 Beebe Draw

Regular Board Meeting June 17, 2021

T. Scott Meining moved and Albert L. Lind seconded to approve the Tap Fee Agreements. Motion Passed.

**AUDIT REPORT:**

The Audit report was tabled until the July 2021 meeting.

**CONSUMER CONFIDENCE REPORT:**

The District transmitted the annual Consumer Confidence Report to its customers and had to also send out a Revised issue of the report to include information about Carter Lake Filter Plant's violations that did not pertain to any health risk or danger to customers. Both issues have been issued to all customers and municipalities.

**EXECUTIVE SESSION:**

*It was moved by Albert L. Lind, seconded by Katie Strohauer, to go into Executive Session regarding §24-6-402(4)(a), C.R.S. concerning the purchase, acquisition, lease, transfer, or sale of any real, personal, or other property interest. Motion passed. The Board went into Executive Session at 3:36pm and returned at 4:00pm.*

**CBT PURCHASE:**

The District has been purchasing CBT water in the range of \$58,000 - \$60,000 per unit. The District is purchasing **1 unit of CBT** water for a total purchase price of \$58,000 per unit. The District is purchasing **21 units of CBT** water for a total purchase price of \$1,218,000 or \$58,000 per unit. The District is purchasing **12 units of CBT** for a total purchase price of \$720,000 or \$60,000 per unit. The District is purchasing **25 units of CBT** for a total purchase price of \$1,500,000 or \$60,000 per unit. The District is purchasing **9 units of CBT** for a total purchase price of \$540,000 or \$60,000 per unit. The Board reviewed the Corporate Contracts, the Base Water Supply Affidavit forms, and the Base Water Supply Affidavit Class BC forms from Northern Colorado Water Conservancy District for a total of **67 CBT units**. T. Scott Meining moved and Pete Ulrich seconded to approve the NCWCD Corporate Contract for the purchases of CBT. Motion passed. Katie Strohauer moved and T. Scott Meining seconded to approve the Base Water Supply Affidavit Class BC forms. Motion passed. Albert L. Lind moved and Katie Strohauer seconded to Certify the Base Water Supply Affidavit forms. Motion passed.

There being no further business to be brought before the Board, the meeting was adjourned at approximately 4:10 P.M.

(SEAL)

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Katie Strohauer - Secretary/Treasurer

**RECURRING BILLS:**

**JULY 2021**

Aflac	Insurance	779.61
Always An Answer	Answering Service	166.00
Atmos Energy	Office/Field Utilities (est.)	500.00
B&C Refuse	Office/Warehouse maint	73.00
Carter Lake Filter Plant	OP - 106,956.86; Dry Creek-1,125.00; NC -513,368.00	621,267.86
CEBT	Health Insurance (est.)	20,204.75
City of Greeley	Office Utility (est)	90.63
Colorado Dept. of Revenue	Taxes	2,561.00
Colorado Network Management	Office Exp	1,977.71
Colorado State Treasurer	Unemployment Insurance (Quarterly)	636.70
Comcast	Office Utilities	1,282.98
CorkKat	Office Exp	4,468.71
CWCWD Employees	Salaries (est.)	50,000.00
Data Print	UB Bills Postage	1,416.73
First Class Security	Alarm Monitoring (Quarterly)	63.00
First National Bank	Fed/Wholding 5,800;Med-1,600; SS-7,300 (Est)	14,942.08
Greeley Gopher	Office Expense	278.20
JG Cleaning	Office Cleaning	900.00
Lincoln National	Retirement:Dis-3,074.93; Emp-3,074.93	6,149.86
Poudre Valley REA	Field Utilities (est.)	250.00
United Power	Field Utilities (est.)	1,000.00
UNCC	M&R	1,952.28
Verizon Wireless	M&R	1,309.48
Xcel Energy	Office/Field Utilities (est.)	1,000.00
Xerox Corporation	Office Exp	457.48
	<b>SUB TOTAL</b>	<b>733,728.06</b>

Ace Hardware	M&R	247.96
Agfinity	Auto Exp	17.50
Badger Meter	M&R	575.83
Buckeye Welding	M&R	30.60
Clear Water Solutions	Prof Fees	2,740.59
FedEx	M&R	17.27
GrayMatter Systems	Telemetry WIN911 renewal	660.00
Home Depot	M&R	1,853.25
Kepner	M&R	563.91
LaSalle Oil	Auto Exp	2,594.13
Lone Tree Services	Bulk Hyd Refund	1,629.00
Lube on the Move	Auto Exp	150.56
Municipal Treatment	Chlorine Exp	392.79
Myers, Delores & Lewis	Water Rights	575,000.00
<b>NCC</b>		
NOCO Engineering	May - 26,515.00 & June - 23,741.50 Prof Fees	50,256.50
TimberLine Electric	M&R	245.50
Union Colony Insurance	Dry Creek Insurance	18,011.00
Warehouse Supply	M&R	308.31
WEL Consulting	Prof Fees	4,028.60
Weld County Public Works	NC	503.60
WEX Bank	Auto Exp	1,408.16
WOW Painting	M&R	1,203.60

<b>SUB TOTAL</b>	<b>662,438.66</b>
<b>TOTAL</b>	<b>1,396,166.72</b>

I have compared the Current Bills with the Checks and recommend payment be made to vendors.  
Any Bills that are questioned will be called out in the Minutes.

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**Board Member**

**PAID BILLS JUNE 2021**

BEG. BALANCE JUNE 1, 2021		\$	854,848.59
FUNDS TRANSFER			
DEPOSITS		\$	1,043,957.85
<b>SUB TOTAL</b>		\$	<b>1,898,806.44</b>

Recurring Utilities

Aflac	Insurance		779.61
Always an Answer	Office Exp		164.00
Atmos Energy	Office/Field Utilities		122.97
B&C Refuse	Office/Whrs		73.00
Carter Lake Filter Plant	OP - 106,956.86; Dry Creek-1,125.00; NC -737564.07		845,645.93
CEBT	Health Insurance		-
City of Greeley	Office Utility		99.67
Colorado Dept. of Revenue	Taxes		3,549.00
Comcast	Office Utilities		1,287.09
CorKat Data	Office Exp		4,468.71
CWCWD Employees	Salaries		61,888.24
DataPrint	Office Exp		-
First Class Security	Alarm Monitoring (Quarterly)		-
First National Bank	Fed/Witholding;Medicare; SS		24,755.22
Greeley Gopher	Office Expense		278.20
JG Cleaning	Office Cleaning		900.00
Lincoln National	Retirement		6,683.98
Poudre Valley REA	Field Utilities		218.58
United Power	Field Utilities		912.99
UNCC	M&R		909.48
Verizon Wireless	M&R		1,391.44
Xcel Energy	Office/Field Utilities		864.27
Xerox	Office Exp		602.25
	<b>SUB TOTAL</b>		<b>955,594.63</b>

Ace Hardware	M&R		109.74
All Purpose Rental	M&R		8.54
Badger Meter	M&R		9,895.49
BDO Usa	Prof Fees - audit		14,000.00
Benietez Tree Service	Office/Warehouse Exp		1,100.00
Buckeye Welding	M&R		30.60
Cintas	Office Exp		90.66
Clear Water Solutions	Prof Fees		1,960.39
DBE Manufacturing	M&R		210.50
DPC Industries	Chlorine Exp		50.00
First National Bank	Auto - 59.99; M&R - 649.67; Office Exp - 7626.94		8,336.60
Hixon Mfg	M&R		189.60
Home Depot	M&R		298.94
InVision GIS	GIS/GPS		1,932.50
Kepner	M&R		30,262.91
Lane Law Firm	Prof Fees		5,499.75
LaSalle Oil	Auto Exp		2,585.98
Lohr Inc	M&R		110.00
Lone Tree Services	Bulk Hydrant Refund		1,629.00
Lube on the Move	Auto Exp		155.97

CURRENT BILLS  
Item No. 4A (1-4)  
July 15, 2021

NCC	Office - 2500; GIS - 8000; NC - 8527.38; M&R - 45,424.19	64,451.57
NOCO Engineering	NC - 19,335.00; Prof Fees - 5,819.25	25,154.25
No Colo Water Conservancy Dist	CBT purchase transfer fees	3,478.00
Office Depot	Office Exp	76.87
Ottem Electronics	Chlorine Exp	168.00
Prairie Mnt Media	Office Exp	12.32
Revelation Steel	M&R	53.10
Scorr Solutions	M&R	2,640.00
Starr & Westbrook	Prof Fees	1,297.50
SwiftReach Notification	Office Exp	1,995.00
Terminix	Office/Warehouse Exp	147.00
TimberLine Electric	GIS/GPS	4,408.32
Treatment Technology	Chlorine Exp	505.00
Warehouse Supply	M&R	437.35
WEL Consulting	Prof Fees	4,059.95
Weld County Clerk & Recorder	Auto Exp	39.08
Weld County Health	Water Samples	865.50
Weld County Public Works	M&R	314.40
Wex Bank (fleet)	Auto Exp	925.35
WOW Painting	Office/Warehouse Exp	14,717.51

\*Denotes Bills paid after Board meeting\*

Subtotal 204,203.24

**BANK BALANCE June 30, 2021**

**\$ 739,008.57**



FUNDS INVESTMENT  
 FOR  
 FINANCIAL REPORTS

FUNDS INVESTMENT SUMMARY:

Name	Beg Balance	Fund Transfers	Interest	Rate	Current Balance
First Nat'l Checking	\$ 854,848.59	\$ (115,840.02)			\$ 739,008.57
First Nat'l Savings	\$ 617,846.71	\$ -	\$ 25.39	0.05%	\$ 617,872.10
CSAFE Bond Series	\$ 57,029,800.60	\$ -	\$ 4,331.02	0.09%	\$ 57,034,131.62
Colostrust Prime	\$ 572,879.78	\$ (35,000.00)	\$ 2.36	0.0051%	\$ 537,882.14
Colostrust Plus	\$ 7,526,812.05	\$ (3,550,165.00)	\$ 161.81	0.0401%	\$ 3,976,808.86
Colostrust Assessments	\$ 294,625.83	\$ -	\$ 1.20	0.0051%	\$ 294,627.03
Colostrust NISP	\$ 5,652,373.44	\$ -	\$ 186.31	0.0401%	\$ 5,652,559.75
Colostrust Water Rights	\$ 37,308.70	\$ (10,000.00)	\$ 1.29	0.0401%	\$ 27,309.99
Colostrust Bond Series	\$ 41,428.41	\$ -	\$ 1.35	0.0401%	\$ 41,429.76
Colostrust Flood	\$ 2,045,543.63	\$ -	\$ 67.44	0.0401%	\$ 2,045,611.07
2013 Paid Flood Expenses	\$ (3,335,011.24)				
YTD Accumulated Flood Interest	\$ 136,611.07				
Flood Exp vs. Reimbursed	\$ (1,289,400.17)	Still awaiting approximately \$300,000 +/- to be reimbursed			

Bank Name	Maturity Date	Amount	Term
Advantage Bank	9/25/2021	\$ 95,000.00	15-month term 0.75% previous 1.24%
First Farm Bank	7/21/2021	\$ 100,000.00	12-month term 0.35% previous 1.64%
First Farm Bank	4/24/2022	\$ 300,000.00	13-month term 0.20% previous 1.39%
TOTAL		\$ 495,000.00	

\* Interest Quotes will be taken in July for re-investment.

FUND INVESTMENT

Item No. 4B (1-3)

July 15, 2021

FUND INVESTMENT TOTALS:

	TOTAL FUNDS		BOND PROCEEDS	COMPARISON
FUNDS INVESTED - 6/30/21	\$ 70,967,240.89	less	\$ 42,267,824.02	\$ 28,699,416.87
FUNDS INVESTED - 5/31/21	\$ 74,673,517.74	less	\$ 41,687,141.37	\$ 32,986,376.37
FUNDS INVESTED - 12/31/20	\$ 80,877,704.88	less	\$ 57,000,000.00	\$ 23,877,704.88

CAPITAL EXPENDITURES:	Actual Spent	Projected
<b>Pre-issuance eligible expenses:</b>		
Design on Pre-Treatment At Carter Lake	0	
Water Purchase	0	
7MG Tank - CLFP	1,550,600	3,500,000
<b>Total Pre-issuance Expenses</b>	<b>1,550,600</b>	<b>3,500,000</b>

Raw Water Development & Acquisitions:		
NISP Design	1,277,500	3,832,500
NISP Construction	0	
Windy Gap Firming Design	0	
Windy Gap Firming Construction	2,279,753	2,300,000
Unfirming Windy Gap (2 shares)	0	5,500,000
CBT Purchase	9,621,095	14,900,000
<b>Total Water Acquisitions</b>	<b>13,178,348</b>	<b>26,532,500</b>

Water System Development:		
<i>Carter Lake PreTreatment</i>		
Design	0	1,440,000
Construction	0	14,800,000
<b>CLFP PreTreatment TOTAL</b>	<b>0</b>	<b>16,240,000</b>
<i>Frederick Water Line</i>		
Design	3,228	300,000
Construction	0	2,700,000
<b>Frederick Water Line TOTAL</b>	<b>3,228</b>	<b>3,000,000</b>
<i>Eastern Regional Treatment Plant</i>		
Design	0	2,000,000
Land Purchase (CR 42 & 13 proposed)	0	2,000,000
Construction	0	
Eastern Water Transmission Lines	0	6,900,000
<b>Eastern Reg Treatment Plant TOTAL</b>	<b>0</b>	<b>10,900,000</b>
<b>Total Water System Development</b>	<b>3,228</b>	

<b>TOTAL CAPITAL OUTLAY</b>		\$ (14,732,175.98)	60,172,500	\$ 3,172,500.00 Difference of Project
<b>Net Proceeds of Bond</b>		\$ 57,000,000.00		
<b>Remaining Bond Proceeds</b>	6/30/2021	\$ 42,267,824.02		

FUND INVESTMENT  
Item No. 4B (1-3)  
July 15, 2021

Monthly Revenue Comparison	JUNE 2021	2021 YTD	JUNE 2020	2020 YTD
CBT Water Service Billed*	\$ 896,701	\$ 3,103,682	\$ 774,445	\$ 2,824,584
WG Water Service Billed*	\$ -	\$ -	\$ -	\$ -
CBT Tap Fees Received	\$ 144,000	\$ 943,950	\$ 96,250	\$ 1,266,450
Bulk Water Sales	\$ 29,444	\$ 115,709	\$ 15,547	\$ 149,500
Misc Water Srv - (LHWD, Verizon, Studies,	\$ 8,405	\$ 32,497	\$ 7,321	\$ 34,717
Non-district Tap Fees Received	\$ 325,500	\$ 3,197,000	\$ 105,400	\$ 1,646,700
Line Extension	\$ -	\$ 98,100	\$ -	\$ 75,922
<b>TOTALS</b>	<b>\$ 1,404,050</b>	<b>\$ 7,490,938</b>	<b>\$ 998,963</b>	<b>\$ 5,997,873</b>

4B(3)

CENTRAL WELD COUNTY WATER DISTRICT  
2020 YTD vs. 2021 YTD  
BUDGET REPORTS  
JANUARY 1 - DECEMBER 31, 2021

BUDGET REPORTS  
Item No. 4C (1-2)  
July 15, 2021

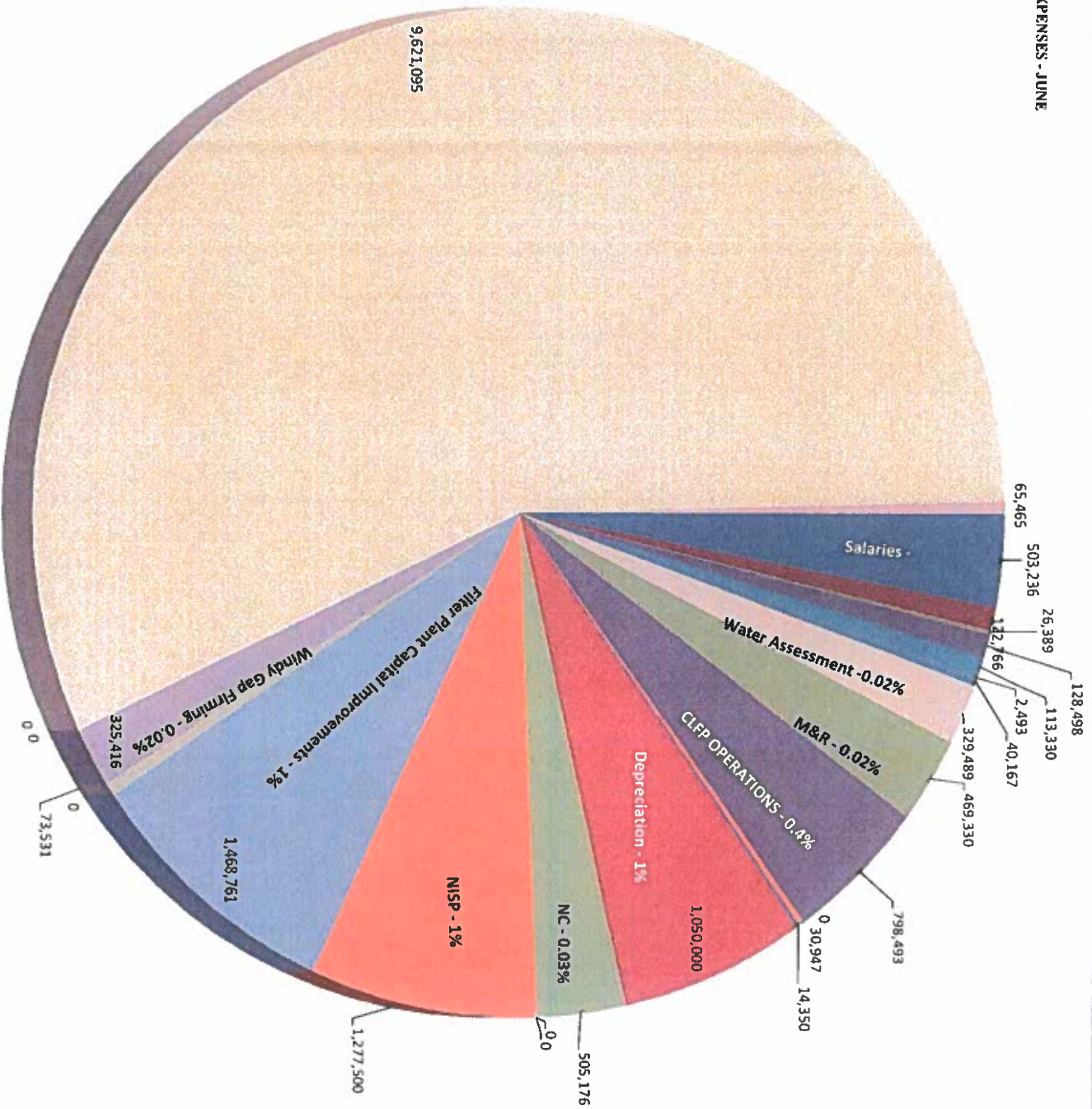
ITEMS	ACTUAL TO	BUDGET	ACTUAL TO	2021 in Comparison to Prior Year
BEGINNING BALANCE	6/30/2020	2021	6/30/2021	2020
Reserves	23,567,600	21,300,000	13,637,441	-9,930,159
Restricted	825,000	825,000	825,000	0
<b>TOTAL</b>	<b>24,392,600</b>	<b>22,125,000</b>	<b>14,462,441</b>	<b>-9,930,159</b>
<b>REVENUES:</b>				
<b>Operating Revenues:</b>				
Water Service	2,203,782	4,600,000	2,497,222	293,440
Surcharge Rates Billed	534,385	1,750,000	606,461	72,076
Bulk Water Sales	149,500	195,000	115,709	-33,791
Miscellaneous (30120,30150;30160)	121,136	70,000	32,500	-88,636
<b>TOTAL</b>	<b>3,008,803</b>	<b>6,615,000</b>	<b>3,251,892</b>	<b>243,089</b>
<b>Non-Operating Revenues:</b>				
Revenue from Bond	0	57,000,000	57,000,000	57,000,000
Water Storage Revenue	0	0	0	0
Interest	137,325	225,000	43,357	-93,968
<b>TOTAL</b>	<b>137,325</b>	<b>57,225,000</b>	<b>57,043,357</b>	<b>56,906,032</b>
<b>Contributions:</b>				
Tap Fees incl. Towns	2,913,150	6,000,000	4,140,950	1,227,800
Raw Water Transfers/Capital Advance for Construction (MM; fire hyd.;etc. pd.for by others)	0	500,000	0	0
	75,922	215,000	98,100	22,178
<b>TOTAL</b>	<b>2,989,072</b>	<b>6,715,000</b>	<b>4,239,050</b>	<b>1,249,978</b>
<b>TOTAL REVENUES</b>	<b>6,135,200</b>	<b>70,555,000</b>	<b>64,534,299</b>	<b>58,399,099</b>
<b>OPERATING EXPENSES:</b>				
Salaries	439,693	896,000	503,236	63,543
Overtime/Sick/Bonus Pay	0	55,000	0	0
Office/Warehouse Expense	144,746	271,000	122,766	-21,980
Office/Field Utilities	25,884	52,000	26,389	505
Professional Fees	52,154	225,000	128,498	76,344
Insurance	127,301	259,000	113,330	-13,971
Director Fees/Board Expense	2,274	6,500	2,493	219
Payroll Taxes	36,175	71,000	40,167	3,992
Water Assessments	320,027	335,000	329,489	9,462
Operations and Maintenance	459,312	900,000	469,330	10,018
Carter Lake Filter Plant	646,294	1,460,000	798,493	152,199
Water Rental	0	100,000	0	0
Automotive	33,667	71,000	30,947	-2,720
Dry Creek Reservoir	23,506	50,000	14,350	-9,156
Depreciation	1,005,000	2,100,000	1,050,000	45,000
<b>TOTAL</b>	<b>3,316,033</b>	<b>6,851,500</b>	<b>3,629,488</b>	<b>313,455</b>
<b>DEBT RETIREMENT:</b>				
Bond Loan Repayment	0	3,510,000	926,303	926,303
<b>TOTAL</b>	<b>0</b>	<b>3,510,000</b>	<b>926,303</b>	<b>926,303</b>
<b>CAPITAL IMPROVEMENTS:</b>				
Distribution System (new const.)	698,184	850,000	505,176	-193,008
Frederick 30" Waterline design	0	300,000	0	0
Rate Study/Master Plan	0	24,000	0	0
NISP	0	1,277,500	1,277,500	1,277,500
Filter Plant	1,490,240	3,000,000	1,468,761	-21,479
GIS/GPS Map Updates	74,313	140,000	73,531	-782
Windy Gap Firing	0	2,352,000	325,416	325,416
Country Estates MM	26,054	0	0	-26,054
SCADA/Telemetry	2,965	100,000	0	-2,965
Easements/Land/Building	0	5,000	0	0
Water Rights	0	6,000,000	9,621,095	9,621,095
Office/Field/Tank Equipment	23,463	100,000	65,465	42,002
<b>TOTAL</b>	<b>2,315,219</b>	<b>14,148,500</b>	<b>13,336,944</b>	<b>11,021,725</b>
<b>TOTAL EXPENSES</b>	<b>5,631,252</b>	<b>24,510,000</b>	<b>17,892,735</b>	<b>12,261,483</b>

CENTRAL WELD COUNTY WATER DISTRICT  
2021 BUDGET vs. 2021 ACTUAL  
BUDGET REPORTS  
JANUARY 1 - DECEMBER 31, 2021

BUDGET REPORTS  
Item No. 4C (1-2)  
July 15, 2021

ITEMS	ACTUAL	BUDGET	ACTUAL TO	OVER OR (UNDER) BUDGET	% OF BUDGET
BEGINNING BALANCE	2020	2021	6/30/2021	2021	2021
Reserves	22,755,185	21,300,000	13,637,441	-7,662,559	
Restricted	825,000	825,000	825,000	0	
<b>TOTAL</b>	<b>23,580,185</b>	<b>22,125,000</b>	<b>14,462,441</b>	<b>-7,662,559</b>	
<b>REVENUES</b>					
<b>Operating Revenues:</b>					
Water Service	3,794,122	4,600,000	2,497,222	-2,102,778	54%
Surcharge Rates Billed	1,340,404	1,750,000	606,461	-1,143,539	35%
Bulk Water Sales	338,897	195,000	115,709	-79,291	59%
Miscellaneous	1,199,988	70,000	32,500	-37,500	46%
<b>TOTAL</b>	<b>6,673,411</b>	<b>6,615,000</b>	<b>3,251,892</b>	<b>-3,363,108</b>	<b>49%</b>
<b>Non-Operating Revenues:</b>					
Revenue from Bond	0	57,000,000	57,000,000	0	100%
Water Storage Revenue	0	0	0	0	0%
Interest	531,531	225,000	43,357	-181,643	19%
<b>TOTAL</b>	<b>531,531</b>	<b>57,225,000</b>	<b>57,043,357</b>	<b>-181,643</b>	<b>100%</b>
<b>Contributions</b>					
Tap Fees	6,048,192	6,000,000	4,140,950	-1,859,050	69%
Raw Water/Capital	4,630,812	500,000	0	-500,000	0%
Advance for Construction	-895,217	215,000	98,100	-116,900	46%
<b>TOTAL</b>	<b>9,783,787</b>	<b>6,715,000</b>	<b>4,239,050</b>	<b>-2,475,950</b>	<b>63%</b>
<b>TOTAL REVENUES</b>	<b>16,988,729</b>	<b>70,555,000</b>	<b>64,534,299</b>	<b>-6,020,701</b>	<b>91%</b>
<b>OPERATING EXPENSES:</b>					
Salaries	837,272	896,000	503,236	-392,764	56%
Overtime/Sick/Bonus Pay	0	55,000	0	-55,000	0%
Office/Warehouse Expense	288,517	271,000	122,766	-148,234	45%
Office/Field Utilities	46,857	52,000	26,389	-25,611	51%
Professional Fees	222,021	225,000	128,498	-96,502	57%
Insurance	289,047	259,000	113,330	-145,670	44%
Director Fees/Board Expense	7,247	6,500	2,493	-4,007	38%
Payroll Taxes	70,208	71,000	40,167	-30,833	57%
Water Assessments	297,639	335,000	329,489	-5,511	98%
Operations and Maintenance	817,007	900,000	469,330	-430,670	52%
Carter Lake Filter Plant	1,255,625	1,460,000	798,493	-661,507	55%
Water Rental	0	100,000	0	-100,000	0%
Automotive	89,813	71,000	30,947	-40,053	44%
Dry Creek Reservoir	71,175	50,000	14,350	-35,650	29%
Depreciation	2,010,000	2,100,000	1,050,000	-1,050,000	50%
<b>TOTAL</b>	<b>6,302,428</b>	<b>6,851,500</b>	<b>3,629,488</b>	<b>-3,222,012</b>	<b>53%</b>
<b>DEBT RETIREMENT:</b>					
Bond Loan Repayment	-	3,510,000	926,303	-2,583,697	0%
<b>TOTAL</b>	<b>-</b>	<b>3,510,000</b>	<b>926,303</b>	<b>-2,583,697</b>	<b>0%</b>
<b>CAPITAL IMPROVEMENTS:</b>					
Distribution System (new const.)	1,118,391	850,000	505,176	-344,824	59%
Frederick 30" Waterline design	0	300,000	0	-300,000	0%
Rate Study/Master Plan	33,637	24,000	0	-24,000	0%
NISP	3,412,500	1,277,500	1,277,500	0	0%
Filter Plant	604,940	3,000,000	1,468,761	-1,531,239	49%
GIS/GPS Map Updates	145,827	140,000	73,531	-66,469	53%
Windy Gap Firing	46,133	2,352,000	325,416	-2,026,584	14%
Country Estates MM	0	0	0	0	0%
SCADA/Telemetry	0	100,000	0	-100,000	0%
Easements/Land/Building	0	5,000	0	-5,000	0%
Water Rights	3,900,495	6,000,000	9,621,095	3,621,095	160%
Office/Field/Tank Equipment	170,432	100,000	65,465	-34,535	65%
<b>TOTAL</b>	<b>9,432,355</b>	<b>14,148,500</b>	<b>13,336,944</b>	<b>-811,556</b>	<b>94%</b>
<b>TOTAL EXPENSES</b>	<b>15,734,783</b>	<b>24,510,000</b>	<b>17,892,735</b>	<b>-6,617,265</b>	<b>73%</b>

**EXPENSES - JUNE**



- Salaries
- Office/Warehouse Expense
- Office/Field Utilities
- Professional Fees
- Insurance
- Director Fees/Board Expense
- Payroll Taxes
- Water Assessments
- Operations and Maintenance
- Carter Lake Filter Plant
- Water Rental
- Automotive
- Dry Creek Reservoir
- Depreciation
- Distribution System (new const.)
- CR 49 Relocation
- Rate Study/Master Plan
- NISP
- Filter Plant
- PRV Building CR 19 & 26
- GIS/GPS Map Updates
- Windy Gap Firming
- Country Estates MM
- Easements/Land/Building
- Water Rights
- Office/Field/Tank Equipment

INCOMING  
CORRESPONDENCE  
Item No. 5A (1)  
July 1, 2021

INCOMING CORRESPONDENCE

	<i>NAME</i>	<i>LOCATION</i>	<i>DATE</i>	<i>DESCRIPTION</i>
1	Town of Frederick	N/A	6/16/2021	Received request for additional information in explaining capacity, CIF, and planning processes to involve the Town
2	Morwai Dairy	CR 39 & 30	6/16/2021	Received request for explaining surcharges and information for CBT for sale
3	NOCO Engineering	CR 50 & 63	6/25/2021	Received analysis for a proposed development to serve 4 lots with a new line extension
4	Beebe Draw Authority	Beebe Draw	6/30/2021	Received informal notification the Beebe Draw will increase their tap fees September 1, 2021 to \$69,000 for a 5/8" and \$39,000 for a Budget.
5	Fairfield & Woods	Beebe Draw	6/30/2021	Received notification that Beebe Draw is ready to file a Filing 2 plat application with Weld County. Also requested information on purchasing CBT directly for the subdivision.

OUTGOING  
CORRESPONDENCE  
Item No. 5B (1)  
July 15, 2021

OUTGOING CORRESPONDENCE

**Water Service:**

Responded that water service can be made available provided all requirements of NCWCD and the Bureau are satisfied to the following:

	<i>NAME</i>	<i>LOCATION</i>	<i>DATE</i>	<i>PRICE</i>	<i>DESCRIPTION</i>
1	OAC Custom Homes	L169/Beebe Draw	6/1/21	\$59,000	House
2	Richard & Patricia Stahl	CR 33/40-42	6/2/21	\$73,000	House
3	New Expression Homes	L185/Beebe Draw	6/7/21	\$59,000	House
4	Christopher Edwards	CR 26/19-21	6/9/21	N/A	House
5	Town of Platteville	CR 32.5/21-23	6/9/21	\$30,520	Fire Hydrant
6	Easton Homes	L17/Panorama Est	6/14/21	\$73,000	House
7	Town of Kersey – Sovereign	600 Latham St	6/14/21	\$13,686	Business
8	John & Jennifer Jaquish	CR 13/20-22	6/22/21	\$73,000	Business
9	Sterling Design	Godding Hollow/CR 11-13	6/22/21	\$286,200	Business
10	Matthew Young	CR 35/30-32	6/23/21	\$396,200	4 homes w/ line ext
11					

**Additional Water Service:**

Responded that water service is currently available and additional service can be provided to property, provided all requirements of NCWCD and the Bureau are satisfied.

	<i>NAME</i>	<i>LOCATION</i>	<i>DATE</i>	<i>PURPOSE</i>	<i>DESCRIPTION</i>
1	Colton & Sayward Stephenson	CR 50/51-53	6/3/21	Add'l Dwelling	Tap #3201
2	Joseph & Kathleen Pennella	CR 24/15-17	6/22/21	Add'l Dwelling	Tap #1581

**Non-Opp Letters:**

Responded that the District will not approve or disapprove the installation of any water well to serve land within the service area of the District unless there is a direct impact from the drilling of the well.

	<i>NAME</i>	<i>LOCATION</i>	<i>DATE</i>	<i>PRICE</i>	<i>DESCRIPTION</i>
1	Sharon Bang	CR 21/16-18	6/22/21	N/A	Well

**Additional Notifications:**

	<i>Name and Company</i>	<i>Date</i>	<i>Transmittal</i>
1			



**FIELD REPORT**

Item No. 5C

July 15, 2021

**BACKGROUND SUMMARY:**

The following is a summary of field activities:

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
<b>LOCATES:</b>												
Received	525	572	682	749	693	738						
Cleared	311	373	483	490	471	459						
Standby	66	59	50	40	34	66						
Completed	31	96	142	148	158	153						
<b>WORKORDERS:</b>												
Past Due Accts	134	111	118	127	144							
Terminations	0	0	0	0	0	12						
Restorations	0	0	0	0	0	12						
Service Calls	55	94	74	51	62	96						

**New Meter Sets:**

6159	Budget 5/8"	16471 Essex Road South
6160	Budget 5/8"	16478 Essex Road South
6161	5/8"	16487 Stoneleigh Road South

1. Completed 12 final reads.
2. Repaired leaks at the following locations: Tap #496 – Address of: 25847 County Road 43, Tap #1161 – Address of: 9885 County Road 11, Highway 66 and County Road 21, Tap #1174 – Address of: 24284 County Road 43, Blow Off – Address of: County Road 21 / Highway 66.
3. Maintenance and daily checks @ vaults, pump stations and tanks.
4. Checked chlorine & pH levels throughout the District.
5. Verifying GIS/GPS Mapping to actual infrastructure.
6. Fire hydrant maintenance & repair throughout the District.
7. PRV Surveys throughout the District.
8. Continuing to work on Backflow Program.
9. Built new meter sets.
10. Chlorine Station maintenance.
11. Tank surveys.
12. Old RP removal from meter vaults
13. Installed 2 new Bac-T sampling sites – CR 8 & 15 and CR 26 & 17
14. Finished 16" waterline installation on County Road 15 between County Road 16 and 18.
15. GIS 12" waterline in Thunder Valley subdivision at County Road 21 & Hwy 52.
16. Fire Hydrant and Fire Line install CR 11 & 22.
17. LaSalle tank mixer plumbing and electrical completed.
18. Aristocrat Pump Station stucco removed and replaced.

**BOARD ACTION SUGGESTED:**

Information only.

**CONSUMPTION REPORT**

Item No. 5D (1-2)

July 15, 2021

**BACKGROUND SUMMARY:**

Attached is a copy of the Consumption Report and Consumption Comparison Report for the month of June.

**BOARD ACTION SUGGESTED:**

Information only.

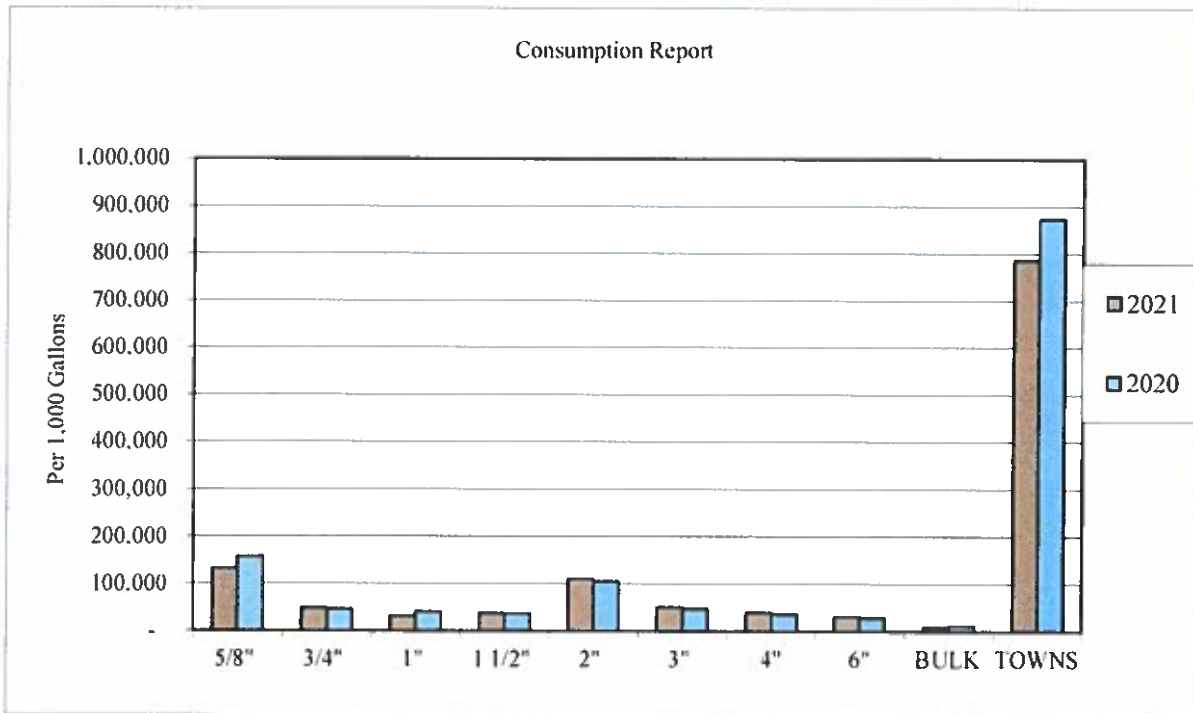
**SUBMITTED BY: Stan Linker**

**5D**

Consumption Report

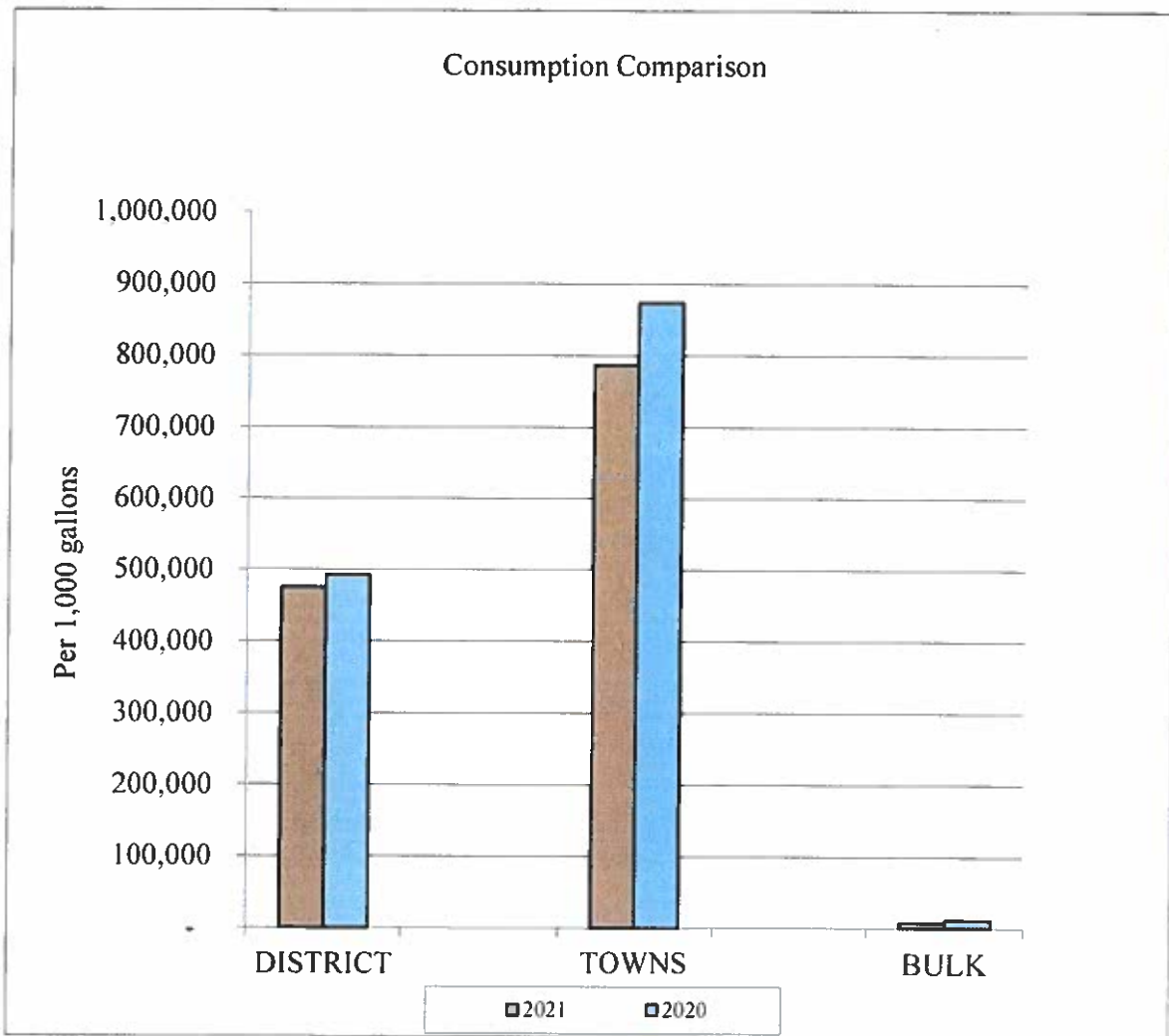
	YTD <u>2020</u>	YTD <u>2021</u>	<u>DIFF.</u>	<u>%</u>
172 DACONO	99,476	90,987	-8,489	-9%
147 FIRESTONE	294,315	257,690	-36,625	-12%
939 FREDERICK	255,939	221,267	-34,672	-14%
1377 GILCREST	14,279	14,273	-6	0%
176 KERSEY	23,438	20,939	-2,499	-11%
1361 LASALLE	41,577	40,009	-1,568	-4%
1011 MILLIKEN	64,428	65,161	733	1%
1411 PLATTEVILLE	59,499	47,094	-12,405	-21%
1675 ARISTOCRAT	16,332	15,862	-470	-3%
9800 JOHNSTOWN	4,362	13,356	8,994	0%
<b>TOTAL</b>	<b>873,645</b>	<b>786,638</b>	<b>-87,007</b>	

	YTD <u>2020</u>	YTD <u>2021</u>	<u>DIFF.</u>	
5/8"	156,550	131,545	-25,005	-16%
3/4"	45,379	47,099	1,720	4%
1"	39,857	30,534	-9,323	-23%
1 1/2"	35,996	36,793	797	2%
2"	104,219	110,090	5,871	6%
3"	46,500	50,015	3,515	8%
4"	35,603	38,530	2,927	8%
6"	28,243	30,317	2,074	7%
BULK	10,655	7,339	-3,316	-31%
TOWNS	873,645	786,638	-87,007	-10%
<b>TOTAL</b>	<b>1,376,647</b>	<b>1,268,900</b>	<b>-107,747</b>	



CONSUMPTION COMPARISON REPORT

DISTRICT	YTD 2020	YTD 2021	DIFF.
DISTRICT	492,347	474,923	(17,424)
TOWNS	873,645	786,638	(87,007)
BULK	10,655	7,339	(3,316)



**REVENUE & USAGE REPORT**

Item No. 5E (1-2)

July 15, 2021

**BACKGROUND SUMMARY:**

Attached is a copy of the Monthly Revenue Report and Usage Report for the month of June.

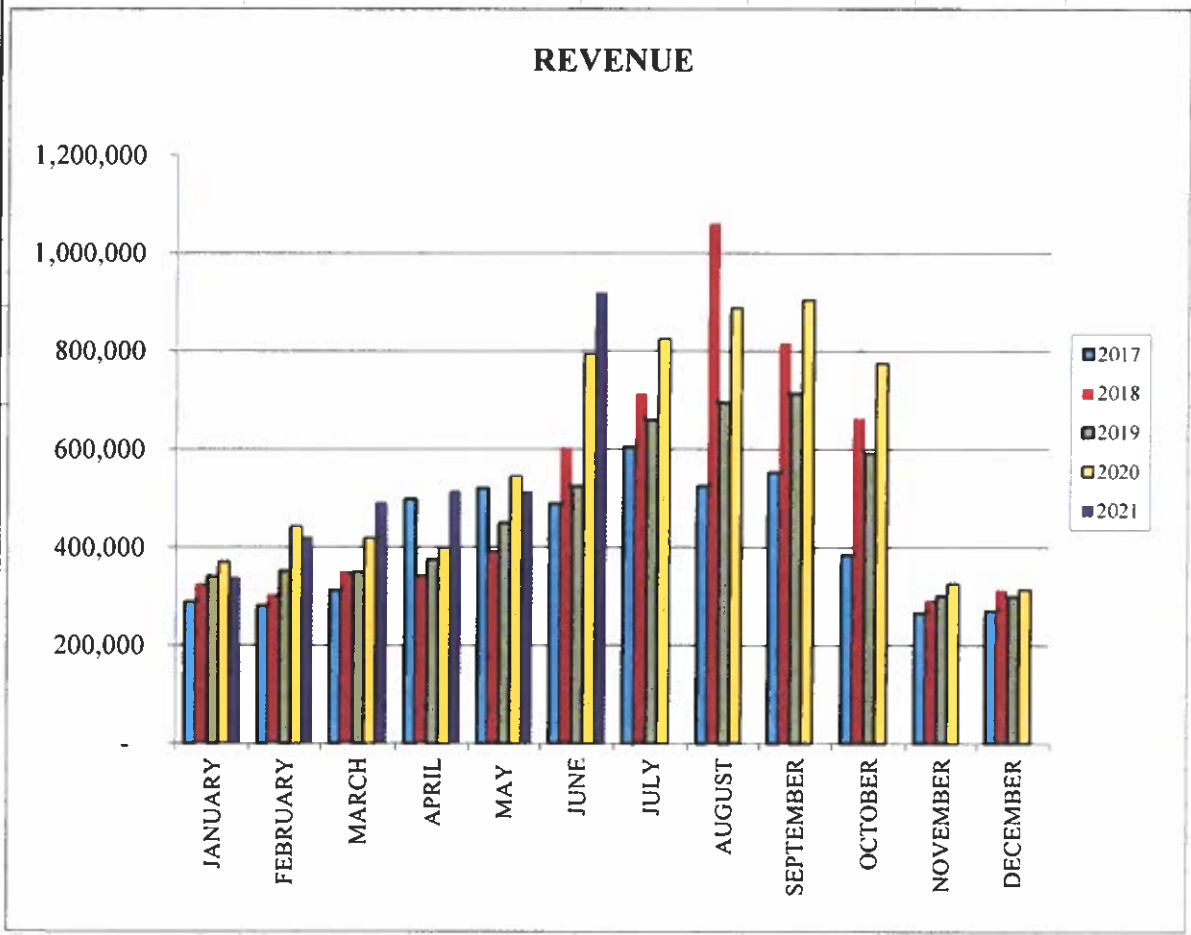
**BOARD ACTION SUGGESTED:**

Information only.

**SUBMITTED BY: Stan Linker**

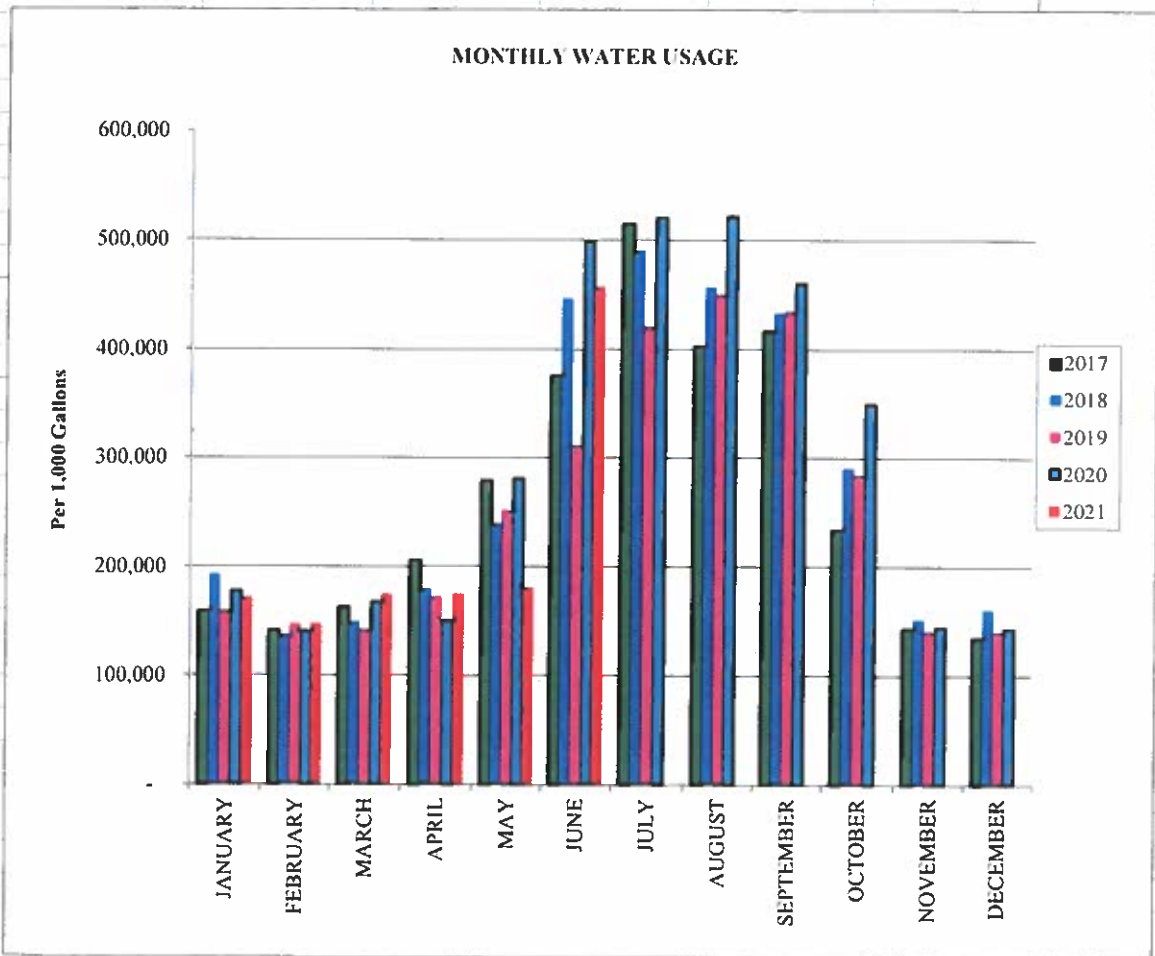
**5E**

MONTHLY WATER REVENUE					
	2017	2018	2019	2020	2021
JANUARY	287,567	325,862	340,194	369,893	338,025
FEBRUARY	279,868	303,189	350,792	440,763	421,523
MARCH	312,126	351,825	348,589	417,841	492,163
APRIL	498,135	345,487	374,965	397,674	514,711
MAY	520,322	395,885	449,561	544,741	513,378
JUNE	489,032	603,929	524,721	792,738	920,110
JULY	604,261	714,555	659,280	824,558	
AUGUST	523,424	1,063,103	694,813	888,285	
SEPTEMBER	552,412	817,921	713,120	904,971	
OCTOBER	384,359	664,550	591,757	775,240	
NOVEMBER	266,361	293,891	300,487	326,092	
DECEMBER	270,346	314,618	299,061	313,952	
YTD TOTAL	4,988,213	6,194,815	5,647,340	6,996,748	3,199,910
YTD AVERAGE	415,684	516,235	470,612	583,062	533,318



5E(1)

MONTHLY WATER USAGE						5 YEAR
	2017	2018	2019	2020	2021	AVERAGE
JANUARY	158,742	192,071	159,766	177,413	171,669	171,932
FEBRUARY	141,231	136,992	147,362	140,273	147,275	142,627
MARCH	162,492	149,156	142,658	167,439	174,891	159,327
APRIL	205,483	179,348	172,736	149,984	175,079	176,526
MAY	278,996	239,528	252,075	281,045	181,329	246,595
JUNE	375,720	446,312	312,030	498,727	458,385	418,235
JULY	514,981	489,679	421,019	520,402		486,520
AUGUST	402,770	457,092	451,036	522,034		458,233
SEPTEMBER	416,741	432,882	435,756	460,979		436,590
OCTOBER	233,828	289,723	284,954	349,211		289,429
NOVEMBER	143,006	151,247	141,496	144,354		145,026
DECEMBER	134,253	160,480	141,239	143,306		144,820
YTD TOTAL	3,168,243	3,324,510	3,062,127	3,555,167	1,308,628	3,604,669
YTD AVERAGE	264,020	277,043	255,177	296,264	218,105	



5E(2)

**BACKGROUND SUMMARY:**

The cost estimate for the NISP project had been updated to a total amount of nearly \$1.1 billion. To date, the District has spent \$7,959,615.00.

The participants of NISP have agreed to spend more than \$16 million to develop the recreation site, and they have purchased the former KOA campground nearby to create camping opportunities.

Another part of the permit dictates the route and procedures for the placement of pipelines to deliver high-quality drinking water to communities in Northern Colorado. It reiterates the commitment of NISP to convey roughly one-third of its water deliveries via the Poudre River through downtown Fort Collins, increasing the overall number of days available for recreation at the new Fort Collins Whitewater Park.

NISP has now received its permit from Larimer County for land use and from the State of Colorado for Water Quality and for Fish and Wildlife Mitigation and Enhancement. This fall, NISP anticipates receiving a Record of Decision from the U.S. Army Corps of Engineers. Next year, NISP anticipates working with the City of Fort Collins to coordinate on a route for a pipeline to pick up the Glade Reservoir water that has been conveyed through Fort Collins via the Poudre River.

NISP is being built to address future water needs for 15 municipalities and water districts, including the Fort Collins-Loveland Water District, the Town of Windsor and others throughout the region. Northern Water is coordinating the effort through the NISP Water Activity Enterprise.

<b>Project Yield</b>	<b>Percent of Project</b>	<b>Original Budget 2022</b>	<b>Pipeline Add on Budget 2022</b>	<b>Original Budget 2023</b>	<b>Pipeline Add on Budget 2023</b>
<b>3500</b>	<b>8.75%</b>	<b>\$2,003,750</b>	<b>\$2,928,625</b>	<b>\$1,373,750</b>	<b>\$3,156,125</b>

**BOARD ACTION SUGGESTED:**

Information Only



**Northern Integrated Supply Project**      **Rev. 3.0**      **6/28/2021**  
**Year 2022-2023 Preliminary Preconstruction Budget**  
*Assumes Glade Construction Starting in Oct. 2023/ Early Pipeline Construction Starting in Aug. 2022*

Item	2022	2023
Glade Design Activities	\$ 6,100,000	\$ 4,700,000
Glade CMGC Design Support	\$ 4,900,000	\$ 300,000
HW 287 Design Activities	\$ 1,000,000	\$ 1,000,000
NISP Delivery Refinement	\$ 1,700,000	\$ 1,800,000
River Intake Predesign and Design	\$ 300,000	\$ 400,000
Program Management	\$ 600,000	\$ 600,000
Environment&Mitigation	\$ 2,800,000	\$ 2,000,000
Financing Consultant	\$ 100,000	\$ 100,000
WQ Sample Testing	\$ 200,000	\$ 200,000
Northern Water	\$ 1,700,000	\$ 1,800,000
Legal	\$ 400,000	\$ 400,000
Communications	\$ 100,000	\$ 100,000
ROW-Land Appraisal/Title/Survey	\$ 200,000	\$ 200,000
Pipeline Easements	\$ 500,000	\$ 500,000
SPWCP Negotiations	\$ 200,000	\$ 200,000
Contingency/Other (10%)	\$ 2,100,000	\$ 1,400,000
<b>Total</b>	<b>\$ 22,900,000</b>	<b>\$ 15,700,000</b>
<b>ADD ON - Early Pipeline Installation</b>	<b>\$10,570,000</b>	<b>\$20,370,000</b>
<b>New Total</b>	<b>\$ 33,470,000</b>	<b>\$ 36,070,000</b>

Participant	Project Yield (Acre-ft)	Percent of Project	ORIGINAL BUDGETS		WITH PIPELINE ADD ON	
			2022 Budget	2023 Budget	2022 Budget	2023 Budget
Central Weld Co. W.D.	3,500	8.75%	\$ 2,003,750	\$ 1,373,750	\$ 2,928,625	\$ 3,156,125
Dacono	1,250	3.13%	\$ 715,625	\$ 490,625	\$ 1,045,938	\$ 1,127,188
Firestone	1,300	3.25%	\$ 744,250	\$ 510,250	\$ 1,087,775	\$ 1,172,275
Frederick	2,600	6.50%	\$ 1,488,500	\$ 1,020,500	\$ 2,175,550	\$ 2,344,550
Eaton	1,300	3.25%	\$ 744,250	\$ 510,250	\$ 1,087,775	\$ 1,172,275
Erie	6,500	16.25%	\$ 3,721,250	\$ 2,551,250	\$ 5,438,875	\$ 5,861,375
Evans	1,600	4.00%	\$ 916,000	\$ 628,000	\$ 1,338,800	\$ 1,442,800
Fort Collins-Loveland. W.D.	3,000	7.50%	\$ 1,717,500	\$ 1,177,500	\$ 2,510,250	\$ 2,705,250
Fort Lupton	2,050	5.13%	\$ 1,173,625	\$ 804,625	\$ 1,715,338	\$ 1,848,588
Fort Morgan	3,600	9.00%	\$ 2,061,000	\$ 1,413,000	\$ 3,012,300	\$ 3,246,300
Lafayette	1,800	4.50%	\$ 1,030,500	\$ 706,500	\$ 1,506,150	\$ 1,623,150
Lefthand W.D.	4,900	12.25%	\$ 2,805,250	\$ 1,923,250	\$ 4,100,075	\$ 4,418,575
Morgan County Q.W.D.	1,300	3.25%	\$ 744,250	\$ 510,250	\$ 1,087,775	\$ 1,172,275
Severance	2,000	5.00%	\$ 1,145,000	\$ 785,000	\$ 1,673,500	\$ 1,803,500
Windsor	3,300	8.25%	\$ 1,889,250	\$ 1,295,250	\$ 2,761,275	\$ 2,975,775
<b>Total</b>	<b>40,000</b>	<b>100.00%</b>	<b>\$ 22,900,000</b>	<b>\$ 15,700,000</b>	<b>\$ 33,470,000</b>	<b>\$ 36,070,000</b>

NISP Conveyance - June 28, 2021

<b>NISP - Early Pipeline Installation Costs</b>				
Pipeline Segment	Length	Engineering Costs <sup>1</sup>	Construction Cost <sup>2</sup>	TOTALS
County Line	4.6 Miles	\$900,000	\$18,360,000	\$19,260,000
Poudre Intake	2.7 Miles	\$940,000	\$10,740,000	\$11,680,000
TOTALS		\$1,840,000	\$29,100,000	\$30,940,000
<b>Budget Per Year</b>				
2022 - Engineering & 30% of Construction Costs				\$10,570,000
2023 - 70% of Construction Costs				\$20,370,000
Notes:				
1) Engineering costs include geotech, potholing, permitting, and 15% contingency.				
2) Construction cost includes construction management and 20% contingency.				
3) Easement land costs are already budgeted for in 2021 and 2022.				

**BACKGROUND SUMMARY:**

*The Chimney Hollow site west of Berthoud will include an earth-fill asphalt core dam. Material for the dam will be quarried at the site, as shown in a computer model above.*

Per the executed WGFP Allotment Contract, CWCWD has a Capital C&E Funding Obligation in the amount of **\$2,279,752.48 due before August 1, 2021.**

Windy Gap Reservoir was pumped down on 6/20/21 and refilling the reservoir since then has gone slowly. With flows dropping on the Fraser River (200 cfs yesterday, down to 140 cfs this morning), we're at the point where it will be difficult to refill the reservoir and still meet downstream flow requirements if we were to pump the reservoir down again. Additionally, temperatures in the Colorado River are higher than typical for this time of year and CPW is currently investigating reports of possible fish kills. For both of these reasons, the plan is to stop pumping Windy Gap. Sunday's pump-down of the reservoir should be the last one for the year. Finally, the Shoshone Outage Protocol is expected to go into place at some point in the next week and we likely would have agreed to stop pumping at that point in any case.

**BOARD ACTION SUGGESTED:**

As appropriate by Board.

**MANAGER'S REPORT**

Item No. 5H  
June 17, 2021

**BACKGROUND SUMMARY:**

Stan will present information at the meeting.

- 1 PS#5 – VFD's motor repair
- 2 20" line pipe is in and being coated
- 3 30" line - Frederick
- 4 Sanitary Survey Letter
- 5

**BOARD ACTION:**

Information Only.

**CARTER LAKE FILTER  
PLANT MINUTES**  
Item No. 6A (1-2)  
July 15, 2021

**BACKGROUND SUMMARY:**

Please review the CLFP Minutes from June.

**BOARD ACTION:**

Information Only.

**MINUTES OF THE REGULAR MEETING  
OF THE BOARD OF DIRECTORS  
OF CARTER LAKE FILTER PLANT**

The regular monthly meeting of the Board of Directors was held at the Carter Lake Filter Plant Office on Wednesday, June 9, 2021. Attendance was as follows:

**Board of Directors**

Ed Martens, President	Present
Al Lind, Jr., Vice President	Present
Emily McMurtrey, Treasurer/Secretary	Present
Steven Brandenburg	Present
Scott Meining	Present
Katie Strohauer	Present

**Staff/Guests in Attendance**

Rick Whittet	CLFP General Manager
Darrell Larson	CLFP Plant Superintendent
Lisa Everson	CLFP Admin. Assistant
Stan Linker	CWCWD District Manager
Amber Kauffman	LTWD District Manager
Bob Reed	NoCo Engineering

**CALL TO ORDER:**

President Martens called the meeting to order at 4:30 p.m.

**PUBLIC COMMENT ON NON-AGENDA ITEMS:**

There were no public comments.

**APPROVAL OF THE MINUTES FROM THE PREVIOUS BOARD MEETING:**

A motion to approve the meeting minutes of the May 12, 2021 Board meeting was made by Director Lind and seconded by Director Strohauer. The motion carried.

**FINANCIAL REVIEW:**

The financial reports from May were reviewed. Two large checks were approved and signed.

A motion to approve the 2020 Audit as presented at the May 12, 2021 Board Meeting was made by Director Brandenburg and seconded by Director McMurtrey. The motion carried.

A motion to approve the May 2021 financials as presented was made by Director Meining and seconded by Director Brandenburg. The motion carried.

**PROJECT UPDATE:**

- Mr. Reed updated the Board on the progress of the 7 Million Gallon Storage Tank Project.
- There was a discussion regarding the contract with Burns & McDonnell for the upcoming Pre-Treatment Project.

A motion for the Plant to pursue a CMAR (Construction Manager at Risk) contract with Burns & McDonnell for the Pretreatment design was made by Director Brandenburg and seconded by Director Lind. The motion carried.

**OPERATIONS AND MAINTENANCE REPORT:**

- Mr. Larson reviewed the O & M report for the month of May.
  - 600 membrane modules for the North Plant were received. Mr. Larson noted one of the shipping containers arrived damaged.
  - Filter 23 repairs are complete, and the filter is back in service.

**WATER QUALITY REPORT:**

Mr. Larson reviewed the Water Quality report for May. All parameters were within acceptable limits.

**MANAGER'S REPORT:**

Mr. Whittet reviewed the Manager's Report for May.

**DISTRICT MANAGER'S QUESTIONS AND COMMENTS:**

Mrs. Kauffman and Mr. Linker shared an update about the recent conversations with the landowners of a prospective location for a new water treatment plant east of I-25.

**DIRECTOR REPORTS:**

The Board continued discussion on the creation of a Project Manager position at the Plant. The Board considered the upcoming projects at the Plant and current workload of the staff.

**A motion was made to approve the hiring of a Project Manager as a full-time addition to the staff by Director Lind and seconded by Director Meining. The motion carried with five members voting in favor and one member opposing.**

**There being no other business, the meeting was adjourned at 5:48 p.m.**

Respectfully Submitted,

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Emily McMurtrey, Secretary

**CARTER LAKE FILTER  
PLANT AGENDA**  
Item No. 6B  
July 15, 2021

**BACKGROUND SUMMARY:**

The agenda for July is attached.

**BOARD ACTION:**  
Information Only.





# Carter Lake Filter Plant

7100 W. County Rd 8-E Berthoud, Colorado 80513

**Directors:** Ed Martens | Al Lind Jr. | Emily McMurtrey | Steven Brandenburg | Scott Meining | Katie Strohauer

**Plant Manager:** Rick Whittet

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## Regular Board Meeting Agenda July 14, 2021 – 4:30 P.M.

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1. **Call to Order**
2. **Public Comment on Non-Agenda Items**
3. **Review of Meeting Minutes of Prior Board Meeting** Page 2
4. **Financial Review** Page 5
5. **Project Update** Page 18
6. **Operations and Maintenance Report** Page 36
7. **Water Quality Report** Page 37
8. **Manager's Report** Page 38
9. **District Manager's Questions and Comments**
10. **Director Reports**
11. **Adjournment**

**CARTER LAKE FILTER  
PLANT PROJECT UPDATE**

Item No. 6C (1-34)

July 15, 2021

**BACKGROUND SUMMARY:**

<b>Financials</b>	Year to date total revenue was less than budgeted and expenses are more than budgeted
<b>South Plant</b>	*almost complete with the DOVE report for the South Plant; State wants the South plant to only flow to the 7MG tank so the south plant can meet log inactivation and have a chlorine monitoring station on the discharge side of the 7MG tank *South plant was run at full capacity until the North Plant was back in service on June 18 <sup>th</sup> .
<b>Website</b>	Website is designed and is now live at <a href="http://www.clfp.colorado.gov">www.clfp.colorado.gov</a>
<b>North Plant</b>	*normal operations *Filter 23 back in service *complete with DOVE report and have received approval from the State *On June 18 <sup>th</sup> at approx. 3am there was a major plant shutdown due to a high clearwell level alarm. The plant went into standby as a result. The raw water control valves did not close which caused an overflow of the feed trough, flooding some portions of the plant. The alarm dialer did not dial out. The plant will perform a comprehensive analysis of the treatment plant processes to identify systems which are at risk of failure.
<b>Water Quality Testing</b>	No violations.
<b>7 MG Tank</b>	*Project is on schedule; painting is in-progress *Fourth superintendent for painting contractor *Tanco and Connell do not want to fix the columns that are out of plumb and want to go to mediation if they are required to fix the out of plumb columns. *Expert Opinion on Roof Structure received and included in packet
<b>Conference</b>	Rick and Justin are attending the conference July 19-22 in West Palm Beach
<b>Election</b>	Election of officers will occur August 11, 2021

**BOARD ACTION:**

As appropriate by Board.



# **Carter Lake Filter Plant**

## **AGENDA ITEM SUMMARY**

**ITEM NUMBER: 4**

**SUBJECT: June Financial Review**

**STAFF: Lisa Everson, Administrative Assistant & Rick Whittet, Plant Manager**

**ACTION REQUEST: Approval**

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- Review of May Financials:
  - June total revenue was \$262,580, \$3,780 less than budgeted.
  - June total expenses are \$215,336 which is \$16,231 more than budgeted.
- Large check approvals

**CARTER LAKE FILTER PLANT**  
**Balance Sheet**  
**As of June 30, 2021**

Accrual Basis

	<i>Jun 30, 21</i>
<b>ASSETS</b>	
<b>Current Assets</b>	
<b>Checking/Savings</b>	
100500 · PETTY CASH	87.22
101000 · CASHBANK ACCOUNT	109,892.73
105000 · COLOTRUST SAVINGS	70,161.58
105100 · COLOTRUST ROOF FUNDS	0.13
<b>Total Checking/Savings</b>	180,141.66
<b>Accounts Receivable</b>	
110000 · ACCOUNTS RECEIVABLE	422,045.03
<b>Total Accounts Receivable</b>	422,045.03
<b>Total Current Assets</b>	602,186.69
<b>Fixed Assets</b>	
121000 · FILTER PLANT PROPERTY	10,730,794.88
121200 · WITHDRAW FACILITIES	17,579.00
121400 · EQUIPMENT -SMALL EQUIP PURCHASE	148,528.54
121500 · SOUTH PLANT CONTROL SYSTEM	206,353.35
121600 · STORAGE TANKS	899,151.06
121800 · REAL PROPERTY	5,000.00
122000 · PROPERTY -FILTER HOUSE	39,461.04
122200 · AUTOMOBILE EQUIPMENT	53,645.15
122400 · SOUTH PLANT CHLORINE SCRUBBER	12,679.00
123000 · ACCUMULATED DEPRECIATION	-5,989,301.95
123200 · D.O.V.E. UPGRADES	0.01
123400 · FILTER REHAB PROJECT	61,900.88
124000 · UTILITY PLAN	0.01
124100 · 7MG STORAGE TANK	0.04
<b>Total Fixed Assets</b>	6,185,791.01
<b>Other Assets</b>	
126000 · INVENTORY	236,863.32
<b>Total Other Assets</b>	236,863.32
<b>TOTAL ASSETS</b>	<b>7,024,841.02</b>
<b>LIABILITIES &amp; EQUITY</b>	
<b>Liabilities</b>	
<b>Current Liabilities</b>	
<b>Accounts Payable</b>	
200000 · ACCOUNTS PAYABLE	177,689.41
<b>Total Accounts Payable</b>	177,689.41
<b>Other Current Liabilities</b>	
200200 · STATE WITHHOLDING TAX	2,151.00

**CARTER LAKE FILTER PLANT**  
**Balance Sheet**  
**As of June 30, 2021**

Accrual Basis

	<b>Jun 30, 21</b>
202000 · ACCRUED COMP. ABSENCES	53,722.49
202100 · ACCRUED WAGES PAYABLE	27,503.48
Total Other Current Liabilities	83,376.97
Total Current Liabilities	261,066.38
Total Liabilities	261,066.38
<b>Equity</b>	
211000 · CAPITAL CONSTRUCTION -LTWD	4,053,223.64
211100 · CAP CONSTRUCTION -CWCWD	4,064,674.35
220000 · RETAINED EARNINGS	890,532.99
30000 · Opening Balance Equity	-55,865.08
32000 · RetainedEarnings	-313,724.64
Net Income	-94,000.64
Total Equity	6,763,774.64
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b>7,024,841.02</b>

**CARTER LAKE FILTER PLANT**  
**Invoices to Districts**  
**As of June 30, 2021**

<u>Date</u>	<u>Invoice #</u>	<u>District</u>	<u>Memo</u>	<u>Amount</u>	<u>Paid</u>
6/25/2021	1675	LTWD	7MG STORAGE TANK PROJECT	\$ 75,924.85	✓
6/25/2021	1676	CWCWD	7MG STORAGE TANK PROJECT	\$ 75,924.85	✓
6/25/2021	1677	LTWD	RISK & VULNERABILITY ASSESMENT	\$ 2,013.75	✓
6/25/2021	1678	CWCWD	RISK & VULNERABILITY ASSESMENT	\$ 2,013.75	
6/25/2021	1679	LTWD	D.O.V.E. UPGRADES	\$ 670.57	✓
6/25/2021	1680	CWCWD	D.O.V.E. UPGRADES	\$ 670.57	
6/25/2021	1681	LTWD	DRY CREEK ELECTRICITY	\$ 1,123.27	✓
6/25/2021	1682	CWCWD	DRY CREEK ELECTRICITY	\$ 1,123.27	
6/30/2021	1683	LTWD	WATER	\$ 118,116.52	
6/30/2021	1684	CWCWD	WATER	\$ 144,463.63	
<b>TOTAL DISTRICT INVOICES</b>				<b>\$ 422,045.03</b>	

**TOTAL CURRENT ACCOUNTS RECEIVABLE**

**\$ 266,387.74**

**CARTER LAKE FILTER PLANT**  
**Profit & Loss Budget Overview**  
**June 2021**

Accrual Basis

	<u>Jun 21</u>	<u>Budget</u>	<u>\$ Over Bud...</u>	<u>Jan - Jun 21</u>	<u>YTD Budget</u>	<u>\$ Over Bud...</u>	<u>Annual Bu...</u>
<b>Income</b>							
301000 · INCOME OPERATIONS	262,580.15	266,360.23	-3,780.08	1,326,301.41	1,356,950.54	-30,649.13	2,685,525.22
302000 · INCOME MISCELLANEOUS	0.00			24.18			
302400 · INCOME INTEREST	35.42	17.91	17.51	137.59	107.46	30.13	215.00
<b>Total Income</b>	<b>262,615.57</b>	<b>266,378.14</b>	<b>-3,762.57</b>	<b>1,326,463.18</b>	<b>1,357,058.00</b>	<b>-30,594.82</b>	<b>2,685,740.22</b>
<b>Expense</b>							
501000 · ADMINISTRATIVE							
501100 · NCWCD 16" LINE FEES	0.00	0.00	0.00	0.00	0.00	0.00	1,500.00
501200 · LEGAL NOTICES	0.00			89.34			
501300 · FEES, LICENSES & DUES	180.00	200.00	-20.00	2,671.37	3,000.00	-328.63	6,777.00
506200 · BOD MILEAGE	149.07	140.58	8.49	893.19	843.50	49.69	1,687.00
506600 · OFFICE SUPPLIES	283.35	688.00	-404.65	2,712.55	4,128.00	-1,415.45	8,256.00
506700 · CUSTODIAL SUPPLIES	0.00	0.00	0.00	894.88	802.00	92.88	1,604.00
506900 · FURNITURE	0.00	0.00	0.00	1,919.88	1,388.00	531.88	1,388.00
<b>Total 501000 · ADMINISTRATIVE</b>	<b>612.42</b>	<b>1,028.58</b>	<b>-416.16</b>	<b>9,181.21</b>	<b>10,161.50</b>	<b>-980.29</b>	<b>21,212.00</b>
501500 · TRAINING							
501600 · SEMINARS & FEES	1,620.28	0.00	1,620.28	1,920.28	6,000.00	-4,079.72	6,000.00
501800 · SAFETY	0.00	0.00	0.00	780.00	1,800.00	-1,020.00	1,800.00
<b>Total 501500 · TRAINING</b>	<b>1,620.28</b>	<b>0.00</b>	<b>1,620.28</b>	<b>2,700.28</b>	<b>7,800.00</b>	<b>-5,099.72</b>	<b>7,800.00</b>
502000 · LABORATORY							
502500 · SUPPLIES	22.98	0.00	22.98	4,359.94	6,470.00	-2,110.06	12,938.00
502700 · PROFESSIONAL SERVICES	0.00	0.00	0.00	2,667.68	3,512.00	-844.32	7,022.00
502800 · EQUIPMENT REPLACEMENT	0.00	0.00	0.00	27,283.96	36,100.00	-8,816.04	36,100.00
502900 · NEW EQUIPMENT	0.00	0.00	0.00	0.00	8,900.00	-8,900.00	8,900.00
<b>Total 502000 · LABORATORY</b>	<b>22.98</b>	<b>0.00</b>	<b>22.98</b>	<b>34,311.58</b>	<b>54,982.00</b>	<b>-20,670.42</b>	<b>64,960.00</b>
503200 · SOUTH PLANT CHEMICALS							
503202 · COAGULANT	0.00	0.00	0.00	30,194.04	31,500.00	-1,305.96	94,500.00
503203 · SEAQUEST	0.00	0.00	0.00	21,753.55	26,000.00	-4,246.45	78,000.00
503204 · CHLORINE	2,067.60	1,600.00	467.60	6,012.80	8,000.00	-1,987.20	14,400.00
503205 · FLUORIDE	3,400.00	0.00	3,400.00	10,200.00	8,100.00	2,100.00	16,200.00
503206 · FLOCULANT	0.00	2,376.00	-2,376.00	0.00	2,376.00	-2,376.00	4,752.00
503207 · FERRIC SULFATE	20,160.00	19,500.00	660.00	20,160.00	39,000.00	-18,840.00	78,000.00
503208 · SODA ASH	5,794.25	8,000.00	-2,205.75	17,382.75	24,000.00	-6,617.25	58,050.00
503209 · SODIUM CHLORITE	0.00	0.00	0.00	26,329.37	37,216.00	-10,886.63	37,216.00
<b>Total 503200 · SOUTH PLANT CHEMICALS</b>	<b>31,421.85</b>	<b>31,476.00</b>	<b>-54.15</b>	<b>132,032.51</b>	<b>176,192.00</b>	<b>-44,159.49</b>	<b>381,118.00</b>
503300 · NORTH PLANT CHEMICALS							
503302 · COAGULANT	0.00	0.00	0.00	26,036.40	34,000.00	-7,963.60	51,000.00
503303 · SEAQUEST	0.00	0.00	0.00	76,056.40	78,000.00	-1,943.60	78,000.00
503304 · CHLORINE	2,756.80	2,400.00	356.80	10,267.20	8,700.00	1,567.20	19,536.00
503305 · FLUORIDE	0.00	0.00	0.00	6,800.00	9,900.00	-3,100.00	19,800.00
503306 · CAUSTIC SODA	0.00	0.00	0.00	0.00	0.00	0.00	4,400.00
503307 · FERRIC SULFATE	39,127.20	39,000.00	127.20	117,994.80	97,500.00	20,494.80	195,000.00
503308 · SODA ASH	8,269.80	8,100.00	169.80	24,354.00	24,300.00	54.00	81,000.00
503309 · SODIUM CHLORITE	0.00	0.00	0.00	46,473.43	37,216.00	9,257.43	74,431.00
503310 · CLEAN-IN-PLACE	10,153.00	0.00	10,153.00	32,442.50	18,500.00	13,942.50	55,000.00
<b>Total 503300 · NORTH PLANT CHEMICALS</b>	<b>60,306.80</b>	<b>49,500.00</b>	<b>10,806.80</b>	<b>340,424.73</b>	<b>308,116.00</b>	<b>32,308.73</b>	<b>578,167.00</b>
504000 · PROFESSIONAL SERVICES							
504100 · CONTROL SYSTEM	560.00	1,200.00	-640.00	1,349.00	7,200.00	-5,851.00	39,383.00
504200 · ELECTRICAL	3,781.91	1,242.66	2,539.25	6,841.91	7,456.02	-614.11	14,912.00
504300 · FIRE & SECURITY	226.25	0.00	226.25	466.25	1,362.00	-895.75	3,225.00
504400 · BACK UP POWER	0.00	0.00	0.00	2,829.00	2,679.00	150.00	2,679.00
504500 · IT SUPPORT	62.50	126.17	-63.67	550.00	757.02	-207.02	1,514.00
504600 · ACCOUNTING	0.00	0.00	0.00	9,375.00	9,000.00	375.00	9,000.00
504800 · ENGINEERING	255.00	1,125.00	-870.00	24,228.39	14,125.00	10,103.39	20,875.00
504900 · LEGAL	1,417.50	206.50	1,211.00	6,682.50	1,239.00	5,443.50	2,478.00
<b>Total 504000 · PROFESSIONAL SERVICES</b>	<b>6,303.16</b>	<b>3,900.33</b>	<b>2,402.83</b>	<b>52,322.05</b>	<b>43,818.04</b>	<b>8,504.01</b>	<b>94,066.00</b>
507000 · WATER QUALITY							
507100 · INORGANICS	0.00	0.00	0.00	429.00	310.00	119.00	310.00
507200 · CHLORITES	0.00	0.00	0.00	240.00	240.00	0.00	240.00
507500 · ORGANIC	0.00	0.00	0.00	0.00	1,500.00	-1,500.00	1,500.00
507600 · RAW ALGAE ID	310.00	135.00	175.00	910.00	810.00	100.00	1,620.00
507800 · DISCHARGE	17.00	0.00	17.00	118.50	532.50	-414.00	1,065.00

**CARTER LAKE FILTER PLANT**  
**Profit & Loss Budget Overview**  
**June 2021**

Accrual Basis

	<u>Jun 21</u>	<u>Budget</u>	<u>\$ Over Bud...</u>	<u>Jan - Jun 21</u>	<u>YTD Budget</u>	<u>\$ Over Bud...</u>	<u>Annual Bu...</u>
507900 · OTHER	39.00	159.59	-120.59	973.00	957.51	15.49	1,915.01
<b>Total 507000 · WATER QUALITY</b>	<b>366.00</b>	<b>294.59</b>	<b>71.41</b>	<b>2,670.50</b>	<b>4,350.01</b>	<b>-1,679.51</b>	<b>6,650.01</b>
<b>508000 · OPERATIONS &amp; MAINTENANCE</b>							
508600 · GENERAL SERVICES	290.00	6,815.41	-6,525.41	41,255.55	40,892.52	363.03	81,785.00
508700 · PARTS & SUPPLIES	5,496.45	5,541.67	-45.22	28,598.50	33,250.02	-4,651.52	66,500.00
508800 · TOOLS	0.00	0.00	0.00	1,615.97	2,732.00	-1,116.03	5,465.00
508900 · PROPERTY MAINTENANCE	18,182.00	0.00	18,182.00	18,182.00	28,965.00	-10,783.00	28,965.00
509000 · GARBAGE REMOVAL	268.18	175.00	93.18	1,103.39	1,050.00	53.39	2,100.00
<b>510000 · FUELS</b>							
510100 · DIESEL	0.00	0.00	0.00	0.00	2,000.00	-2,000.00	2,000.00
510200 · GASOLINE	738.33	700.00	38.33	2,261.95	2,025.00	236.95	4,838.00
<b>Total 510000 · FUELS</b>	<b>738.33</b>	<b>700.00</b>	<b>38.33</b>	<b>2,261.95</b>	<b>4,025.00</b>	<b>-1,763.05</b>	<b>6,838.00</b>
510300 · MILEAGE REIMBURSEMENT	44.80	31.50	13.30	44.80	189.00	-144.20	378.00
510700 · CLOTHING	0.00	0.00	0.00	199.96	500.00	-300.04	3,500.00
510800 · SAFETY SUPPLIES	218.00	346.84	-128.84	1,656.04	2,080.98	-424.94	4,162.00
512000 · FILTER PLANT HOUSE	0.00	0.00	0.00	0.00	1,000.00	-1,000.00	10,000.00
<b>Total 508000 · OPERATIONS &amp; MAINTENANCE</b>	<b>25,237.76</b>	<b>13,610.42</b>	<b>11,627.34</b>	<b>94,918.16</b>	<b>114,684.52</b>	<b>-19,766.36</b>	<b>209,693.00</b>
<b>511500 · VEHICLE MAINTENANCE</b>							
511400 · SMALL VEHICLES & ATTACHMENTS	0.00			21.48			
511600 · 1997 FORD	25.00			25.00			
511900 · 2012 GMC	0.00			841.19			
511500 · VEHICLE MAINTENANCE - Other	0.00	657.18	-657.18	0.00	3,943.08	-3,943.08	7,886.00
<b>Total 511500 · VEHICLE MAINTENANCE</b>	<b>25.00</b>	<b>657.18</b>	<b>-632.18</b>	<b>844.71</b>	<b>3,943.08</b>	<b>-3,098.37</b>	<b>7,886.00</b>
<b>513000 · UTILITIES</b>							
<b>505000 · COMMUNICATIONS</b>							
505100 · TELEPHONE SERVICE	468.34	405.50	62.84	2,785.89	2,433.00	352.89	4,866.00
505200 · CELLULAR SERVICE	254.05	423.42	-169.37	1,537.15	2,540.50	-1,003.35	5,081.00
<b>Total 505000 · COMMUNICATIONS</b>	<b>722.39</b>	<b>828.92</b>	<b>-106.53</b>	<b>4,323.04</b>	<b>4,973.50</b>	<b>-650.46</b>	<b>9,947.00</b>
<b>513100 · ELECTRICITY</b>							
513600 · NORTH PLANT	8,788.74	10,250.00	-1,461.26	58,040.25	57,750.00	290.25	117,000.00
513700 · SOUTH PLANT	4,874.14	6,000.00	-1,125.86	24,903.27	34,000.00	-9,096.73	68,500.00
513800 · PLANT HOUSE	103.80	150.00	-46.20	594.33	655.00	-60.67	1,447.00
<b>Total 513100 · ELECTRICITY</b>	<b>13,766.68</b>	<b>16,400.00</b>	<b>-2,633.32</b>	<b>83,537.85</b>	<b>92,405.00</b>	<b>-8,867.15</b>	<b>186,947.00</b>
<b>514000 · PROPANE</b>							
514100 · NORTH PLANT	0.00	0.00	0.00	9,146.93	6,707.00	2,439.93	8,107.00
514200 · SOUTH PLANT	0.00	0.00	0.00	2,260.00	8,144.00	-5,884.00	9,844.00
514300 · PLANT HOUSE	0.00	0.00	0.00	0.00	736.00	-736.00	1,094.00
<b>Total 514000 · PROPANE</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>11,406.93</b>	<b>15,587.00</b>	<b>-4,180.07</b>	<b>19,045.00</b>
<b>Total 513000 · UTILITIES</b>	<b>14,489.07</b>	<b>17,228.92</b>	<b>-2,739.85</b>	<b>99,267.82</b>	<b>112,965.50</b>	<b>-13,697.68</b>	<b>215,939.00</b>
<b>515000 · PAYROLL</b>	<b>52,814.34</b>	<b>56,723.00</b>	<b>-3,908.66</b>	<b>367,090.79</b>	<b>366,394.00</b>	<b>696.79</b>	<b>759,324.00</b>
515500 · PAYROLL TAXES	4,040.29	4,339.00	-298.71	28,082.46	28,029.00	53.46	58,088.00
515600 · STATE UNEMPLOYMENT	0.00	0.00	0.00	1,136.67	1,139.00	-2.33	2,278.00
<b>516100 · INSURANCE</b>							
505500 · PROPERTY & LIABILITY	0.00	0.00	0.00	133,551.00	110,000.00	23,551.00	110,000.00
505800 · WORKERS COMPENSATION	0.00	0.00	0.00	8,415.00	9,646.00	-1,231.00	9,646.00
516000 · HEALTH	15,621.83	17,626.25	-2,004.42	98,458.82	105,757.50	-7,298.68	211,515.00
<b>Total 516100 · INSURANCE</b>	<b>15,621.83</b>	<b>17,626.25</b>	<b>-2,004.42</b>	<b>240,424.82</b>	<b>225,403.50</b>	<b>15,021.32</b>	<b>331,161.00</b>
<b>516500 · RETIREMENT CONTRIBUTION</b>	<b>2,453.97</b>	<b>2,720.13</b>	<b>-266.16</b>	<b>15,055.53</b>	<b>16,320.98</b>	<b>-1,265.45</b>	<b>32,642.00</b>
<b>Total Expense</b>	<b>215,335.75</b>	<b>199,104.40</b>	<b>16,231.35</b>	<b>1,420,463.82</b>	<b>1,474,299.13</b>	<b>-53,835.31</b>	<b>2,770,984.01</b>
<b>Net Income</b>	<b>47,279.82</b>	<b>67,273.74</b>	<b>-19,993.92</b>	<b>-94,000.64</b>	<b>-117,241.13</b>	<b>23,240.49</b>	<b>-85,243.79</b>



**CARTER LAKE FILTER PLANT**  
**Check Register**  
**As of June 30, 2021**

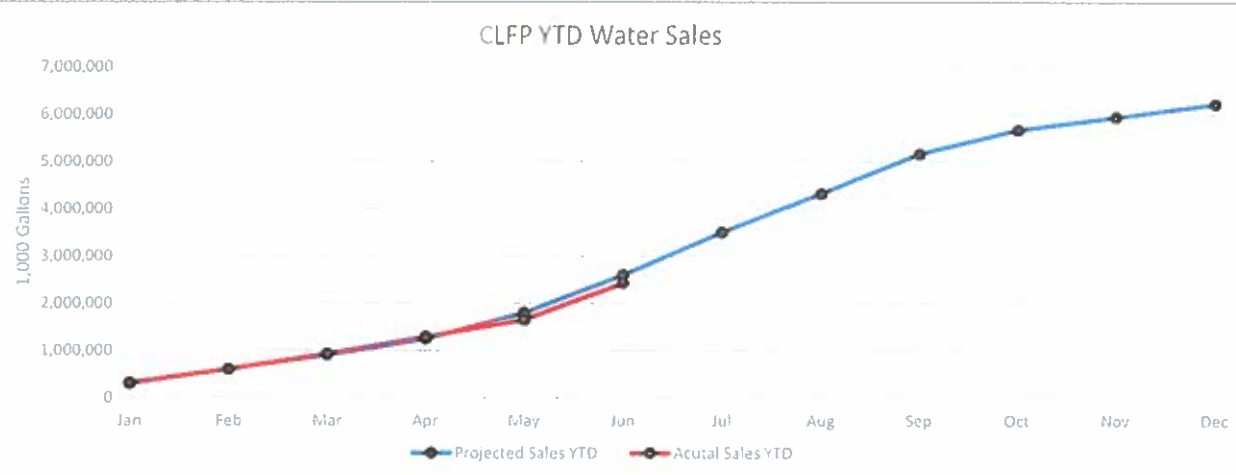
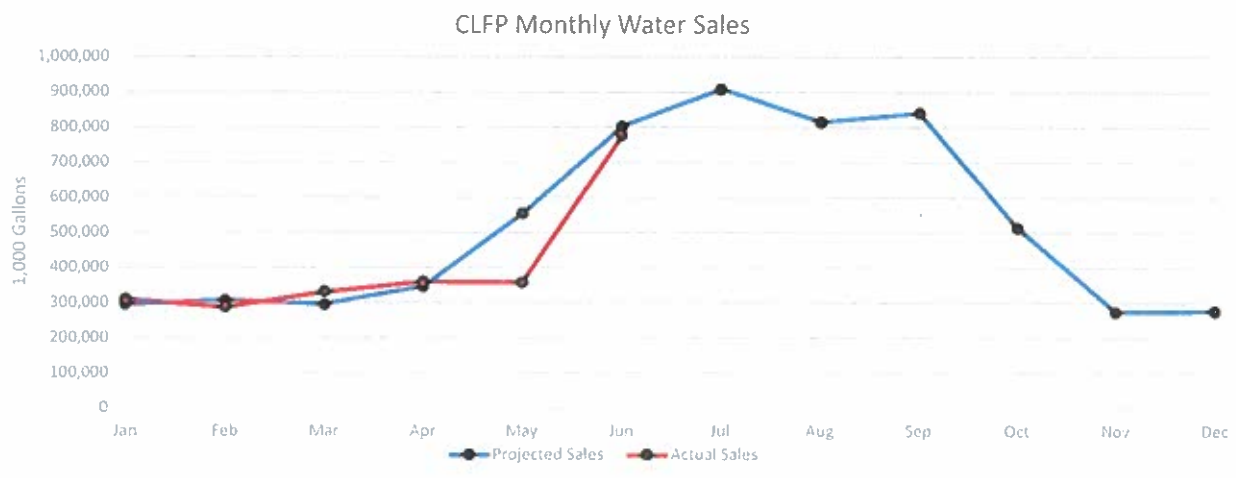
Num	Date	Name	Memo	Amount
101000		CASHBANK ACCOUNT		
24630	6/9/2021	FILMTEC CORPORATION	MEMBRANE REPLACEMENT	\$945,000.00
24629	6/9/2021	CONNELL RESOURCES, INC	7MG STORAGE TANK PROJECT	\$93,581.36
24617	6/7/2021	AQUA SMART, INC.	CHEMICALS	\$48,909.95
24616	6/7/2021	AQSEPTENCE	FILTER 23 EXPENSES	\$41,200.00
24625	6/7/2021	U.S.A. CONSTRUCTION, INC	FILTER 23 EXPENSES	\$40,536.00
24636	6/17/2021	NCC	PROPERTY MAINTENANCE	\$18,182.00
24610	6/1/2021	CEBT	EMPLOYEE INSURANCE	\$15,621.83
BILL PAY	6/7/2021	POUDRE VALLEY REA	UTILITIES - ELECTRIC	\$13,766.68
24640	6/17/2021	S & S COATING SERVICES	7MG STORAGE TANK PROJECT	\$10,943.75
24626	6/7/2021	USALCO	CHEMICALS	\$9,356.80
BILL PAY	6/11/2021	HARCROS CHEMICALS INC.	CHEMICALS	\$4,214.00
BILL PAY	6/17/2021	ROCKY MTN ELECTRIC	ELECTRICAL SERVICES	\$3,781.91
24621	6/7/2021	DPC INDUSTRIES, INC.	CHEMICALS	\$3,444.30
24623	6/7/2021	INGERSOLL RAND	PARTS & HARDWARE	\$2,461.15
BILL PAY	6/3/2021	POUDRE VALLEY REA	DRY CREEK - ELECTRIC	\$2,250.00
24615	6/3/2021	RANDY LOPEZ CDL TRAINING & TESTING	CDL TESTING	\$1,600.00
24637	6/17/2021	RANDOLPH W STARR, P.C.	LEGAL SERVICES	\$1,417.50
24618	6/7/2021	BACKFLOW TECH, INC.	GENERAL SERVICES	\$1,031.08
24635	6/17/2021	MALLORY SAFETY & SUPPLY	SAFETY SUPPLIES	\$939.18
24614	6/1/2021	T&T TIRE, INC	VEHICLE MAINTENANCE	\$841.19
BILL PAY	6/17/2021	ELVINA AND YOUSAF LLC	FUELS - GASOLINE	\$738.33
24622	6/7/2021	GRAINGER, INC	PARTS & HARDWARE	\$733.44
BILL PAY	6/1/2021	CARDMEMBER SERVICE	CREDIT CARD PURCHASES	\$420.43
BILL PAY	6/7/2021	CENTURYLINK	COMMUNICATIONS - TELEPHONE	\$375.40
BILL PAY	6/7/2021	MUNICIPAL TREATMENT EQUIP	PARTS & HARDWARE	\$298.54
24638	6/17/2021	REXEL	PARTS & HARDWARE	\$278.62
24628	6/7/2021	WESCO	GENERAL SERVICES	\$275.00
24611	6/1/2021	GALLEGOS SANITATION	TRASH REMOVAL	\$268.18
BILL PAY	6/17/2021	NOCO ENGINEERING CO	ENGINEERING SERVICES	\$255.00
BILL PAY	6/24/2021	VERIZON	COMMUNICATIONS - CELLULAR	\$254.05
24645	6/29/2021	GRAINGER, INC	PARTS & HARDWARE	\$226.56
24644	6/29/2021	CINTAS CORPORATION	SAFETY SUPPLIES	\$218.00
24633	6/17/2021	BERTHOUD ACE HARDWARE	PARTS & HARDWARE	\$189.45
BILL PAY	6/17/2021	NAPA OF BERTHOUD	PARTS & HARDWARE	\$147.95
BILL PAY	6/7/2021	CENTURYLINK	COMMUNICATIONS - TELEPHONE	\$92.94
24643	6/17/2021	SECURITY SOUND DESIGN,INC	SECURITY SERVICES	\$85.00
BILL PAY	6/17/2021	MUNICIPAL TREATMENT EQUIP	PARTS & HARDWARE	\$68.87
24639	6/17/2021	RYAN HERCO PRODUCTS CORP.	PARTS & HARDWARE	\$65.83
24632	6/16/2021	BRIAN BERMEJO {}	TESTING REIMBURSEMENT	\$65.08
24620	6/7/2021	CORKAT DATA SOLUTIONS	COMPUTER EXPENSE	\$62.50
BILL PAY	6/17/2021	BES BUSINESS EQUIPMENT	OFFICE SUPPLIES	\$62.10
24627	6/7/2021	WELD COUNTY HEALTH DEPT	WATER QUALITY	\$56.00
24619	6/7/2021	CINTAS CORPORATION	SAFETY SUPPLIES	\$50.17
24634	6/17/2021	MAC EQUIPMENT INC.	PARTS & HARDWARE	\$40.32
24613	6/1/2021	NUGENT SUPPLY CO. INC.	PARTS & HARDWARE	\$37.34
24624	6/7/2021	NUGENT SUPPLY CO. INC.	PARTS & HARDWARE	\$36.01
	6/30/2021	INDEPENDENT FINANCIAL	SERVICE CHARGE	\$35.00
24650	6/29/2021	AIR COLORADO ENVIRO TEST	EMISSIONS TESTING	\$25.00
24642	6/17/2021	WAGNER WELDING SUPPLY CO.	LABORATORY SUPPLIES	\$22.98
BILL PAY	6/7/2021	OFFICE DEPOT CREDIT PLAN	OFFICE SUPPLIES	\$12.46
24641	6/17/2021	SECURITY SOUND DESIGN,INC	VOID:	
<b>OPERATIONS TOTAL</b>				<b>\$1,264,575.23</b>

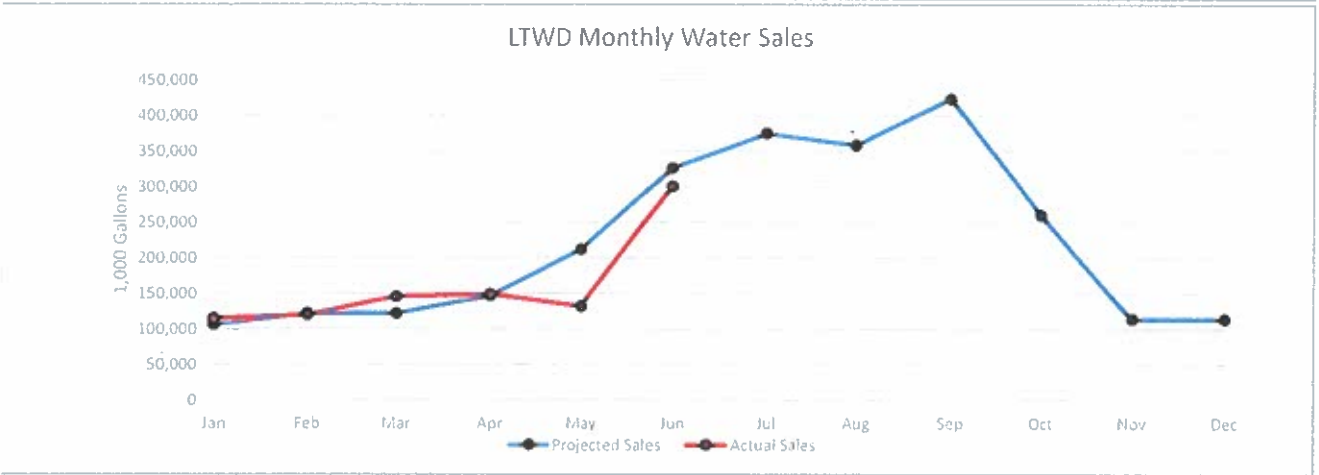
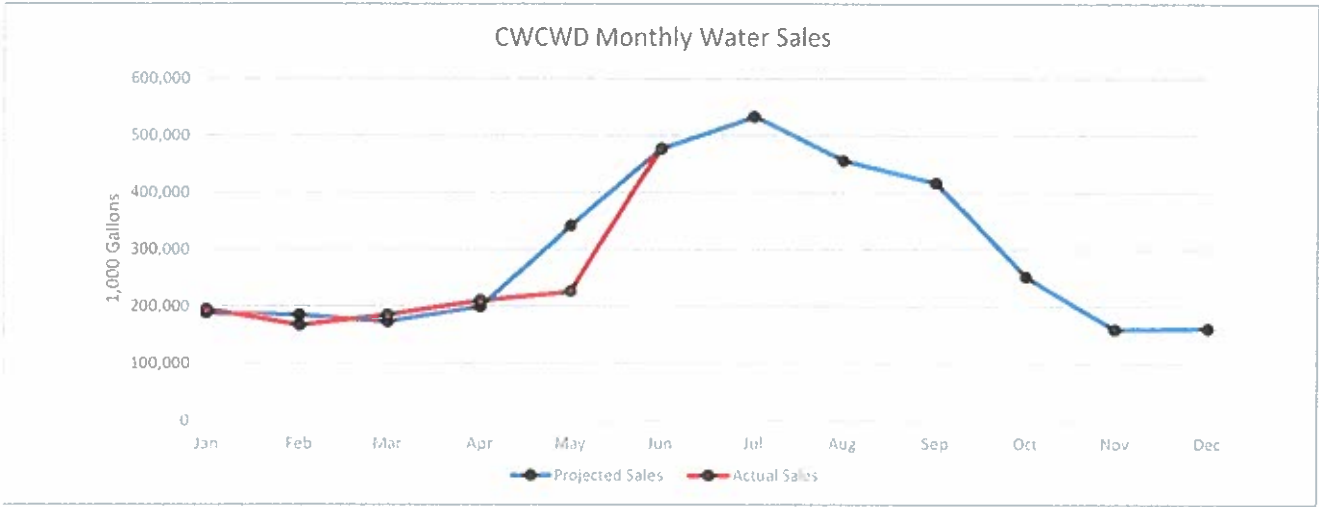
**CARTER LAKE FILTER PLANT**  
**Check Register**  
**As of June 30, 2021**

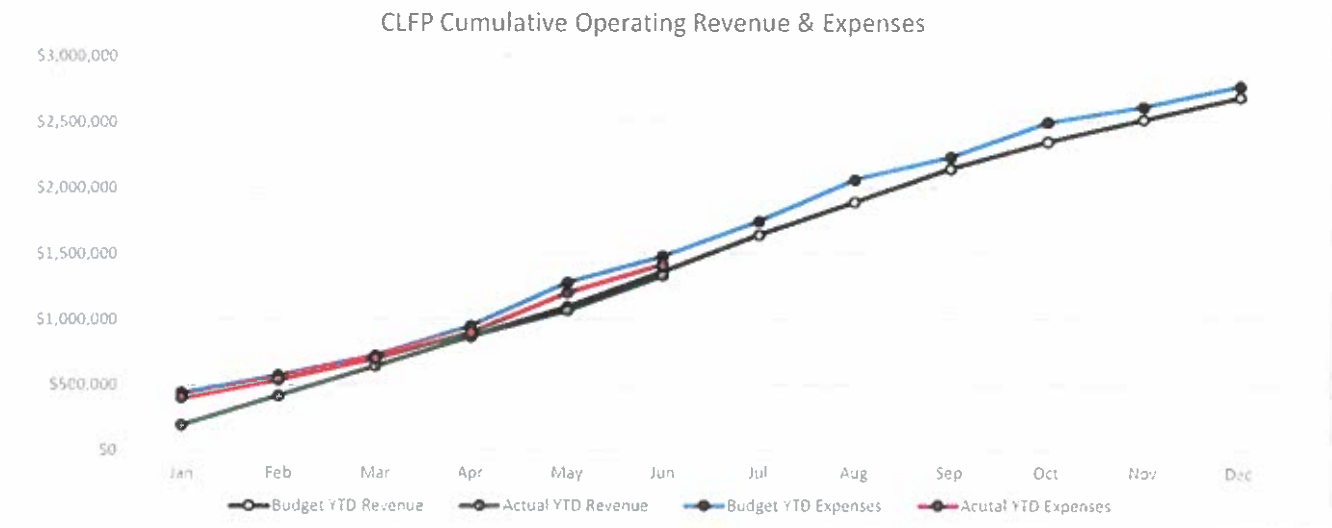
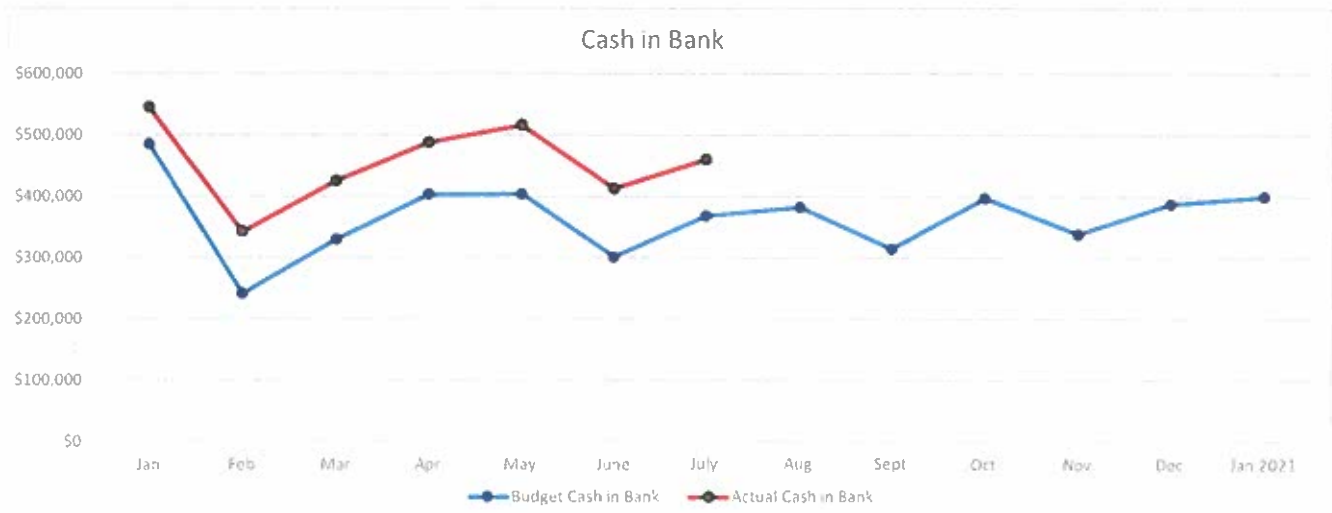
<u>Num</u>	<u>Date</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
	6/4/2021	DIRECT DEPOSIT	PAYROLL PERIOD 5/21/21-6/3/21	\$20,757.98
	6/18/2021	DIRECT DEPOSIT	PAYROLL PERIOD 6/4/21-6/17/21	\$20,056.97
DIRECT DEPOSIT 24631	6/18/2021	LIND, ALBERT L	BOARD MEMBER REIMBURSEMENT	\$142.75
	6/18/2021	STROHAUER, KATIE	BOARD MEMBER REIMBURSEMENT	\$129.31
DIRECT DEPOSIT	6/18/2021	MEINING, T. SCOTT	BOARD MEMBER REIMBURSEMENT	\$125.95
DIRECT DEPOSIT	6/18/2021	BRANDENBURG, STEVEN	BOARD MEMBER REIMBURSEMENT	\$105.79
DIRECT DEPOSIT	6/18/2021	ED MARTENS	BOARD MEMBER REIMBURSEMENT	\$104.67
DIRECT DEPOSIT	6/18/2021	MCMURTREY, EMILY	BOARD MEMBER REIMBURSEMENT	\$94.70
ACH PAYMENT	6/4/2021	FEDERAL PR TAX	PAYROLL TAXES	\$6,429.94
ACH PAYMENT	6/18/2021	FEDERAL PR TAX	PAYROLL TAXES	\$6,284.64
ACH PAYMENT	4/2/2021	COLORADO PR TAXES	PAYROLL TAXES	\$2,383.00
24612	6/1/2021	LINCOLN NATIONAL LIFE	457 CONTRIBUTION	\$3,073.97
<u>PAYROLL TOTAL</u>				<u>\$59,689.67</u>

**Carter Lake Filter Plant Operations Fund Summary - 2021**

Month	Water Sales (1,000 Gallons)		Dollars Billed		Expenses		Net Gain / Loss	
	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual
Jan	294,370	310,740	\$190,156	\$192,611	\$434,433	\$395,968	(\$244,277)	(\$203,357)
Feb	306,723	287,278	\$223,794	\$223,794	\$134,743	\$140,614	\$89,051	\$83,180
Mar	294,904	330,974	\$223,794	\$223,794	\$150,831	\$161,283	\$72,963	\$62,511
Apr	346,027	360,171	\$223,794	\$223,794	\$222,896	\$196,005	\$897	\$27,789
May	553,690	358,193	\$229,054	\$199,729	\$332,285	\$303,123	(\$103,231)	(\$103,394)
Jun	802,402	777,201	\$266,360	\$262,580	\$199,103	\$215,301	\$67,257	\$47,279
Jul	0	0	\$0	\$0	\$0	\$0	\$0	\$0
Aug	0	0	\$0	\$0	\$0	\$0	\$0	\$0
Sep	0	0	\$0	\$0	\$0	\$0	\$0	\$0
Oct	0	0	\$0	\$0	\$0	\$0	\$0	\$0
Nov	0	0	\$0	\$0	\$0	\$0	\$0	\$0
Dec	0	0	\$0	\$0	\$0	\$0	\$0	\$0
<b>YTD Total</b>	<b>2,598,115</b>	<b>2,424,557</b>	<b>\$1,356,951</b>	<b>\$1,326,301</b>	<b>\$1,474,292</b>	<b>\$1,412,294</b>	<b>(\$117,341)</b>	<b>(\$85,992)</b>







**Carter Lake Filter Plant Actual Usage and Billing - 2021**

Little Thompson Water District									
Month	Water (1,000 Gallons)					Dollars		Dollars	
	Actual Sales	Actual Sales YTD	Actual Billed	Actual Billed YTD	Actual Credit Bal YTD	Fixed Rate Charges	Variable Rate Charges	Actual Dollars Billed	Actual Dollars Billed YTD
Jan	114,974	114,974	114,974	114,974	0	\$73,000.00	\$17,246.07	\$90,246.07	\$90,246.07
Feb	119,795	234,769	223,307	338,280	103,512	\$73,000.00	\$33,496.00	\$106,496.00	\$196,742.07
Mar	145,298	380,066	223,307	561,587	181,521	\$73,000.00	\$33,496.00	\$106,496.00	\$303,238.07
Apr	149,111	529,177	223,307	784,894	255,717	\$73,000.00	\$33,496.00	\$106,496.00	\$409,734.07
May	131,814	660,991	131,814	916,708	255,717	\$73,000.00	\$19,772.09	\$92,772.09	\$502,506.16
Jun	300,777	961,768	300,777	1,217,485	255,717	\$73,000.00	\$45,116.52	\$118,116.52	\$620,622.68
Jul	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Aug	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Sep	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Oct	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Nov	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Dec	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>961,768</b>		<b>1,217,485</b>			<b>\$438,000.00</b>	<b>\$182,622.68</b>	<b>\$620,622.68</b>	

Central Weld County Water District									
Month	Water (1,000 Gallons)					Dollars		Dollars	
	Actual Sales	Actual Sales YTD	Actual Billed	Actual Billed YTD	Actual Credit Bal YTD	Fixed Rate Charges	Variable Rate Charges	Actual Dollars Billed	Actual Dollars Billed YTD
Jan	195,766	195,766	195,766	195,766	0	\$73,000.00	\$29,364.93	\$102,364.93	\$102,364.93
Feb	167,483	363,249	295,318	491,085	127,835	\$73,000.00	\$44,297.77	\$117,297.77	\$219,662.70
Mar	185,676	548,926	295,318	786,403	237,477	\$73,000.00	\$44,297.77	\$117,297.77	\$336,960.47
Apr	211,060	759,986	295,318	1,081,722	321,736	\$73,000.00	\$44,297.77	\$117,297.77	\$454,258.24
May	226,379	986,365	226,379	1,308,101	321,736	\$73,000.00	\$33,956.86	\$106,956.86	\$561,215.10
Jun	476,424	1,462,789	476,424	1,784,525	321,736	\$73,000.00	\$71,463.63	\$144,463.63	\$705,678.73
Jul	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Aug	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Sep	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Oct	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Nov	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Dec	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>1,462,789</b>		<b>1,784,525</b>			<b>\$438,000.00</b>	<b>\$267,678.73</b>	<b>\$705,678.73</b>	



# Memorandum

To: Carter Lake Filter Plant  
From: Josh Cook, P.E.  
Subject: Engineer's Report

Attn: Board of Directors  
Date: July 8, 2021

## Projects:

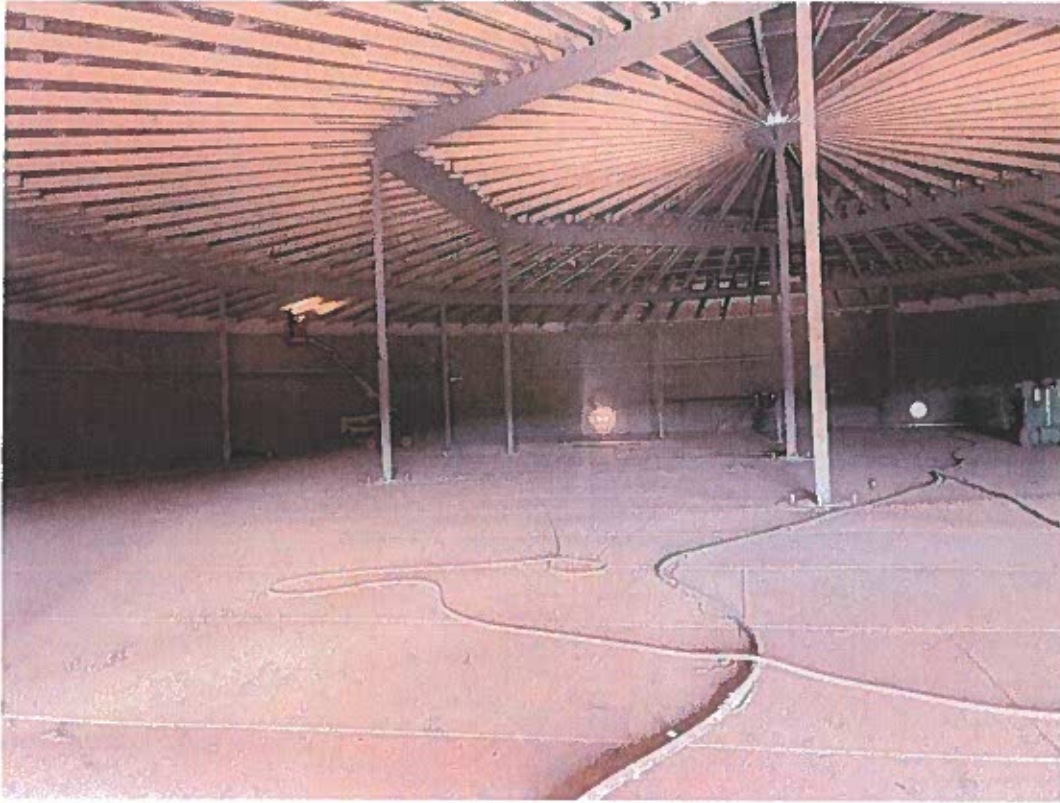
### 7.0 MG Storage Tank:

- We are on our fourth superintendent for the painting contractor.
- They painted the roof of the tank which has greatly reduced the heat on the inside of the tank.
- They removed all of the cracked paint on the inside of the tank.
- They will be in liquidated damages on July 9. They have approximately eight weeks of work left.
- We took measurement on the interior columns of the tank and found 15 of the 19 columns are out of plumb in accordance with AWWA and AISC standards (1/500L).

Description	Column Height Feet	Column Height Inches	Resultant	Max Allowed AISC 1/500
Column 1	24.2240	290.6880	1.5013	0.5814
Column 2	24.2240	290.6880	0.6760	0.5814
Column 3	24.2240	290.6880	0.5376	0.5814
Column 4	24.2240	290.6880	1.1941	0.5814
Column 5	24.2240	290.6880	1.0308	0.5814
Column 6	24.2240	290.6880	2.1378	0.5814
Column 7	24.2240	290.6880	2.8994	0.5814
Column 8	24.2240	290.6880	1.8802	0.5814
Column 9	24.2240	290.6880	0.6250	0.5814
Column 10	24.2240	290.6880	0.2795	0.5814
Column 11	24.2240	290.6880	1.6298	0.5814
Column 12	24.2240	290.6880	1.9375	0.5814
Column 13	26.3438	316.1250	0.9520	0.6323
Column 14	26.3438	316.1250	0.7126	0.6323
Column 15	26.3438	316.1250	0.5340	0.6323
Column 16	26.3438	316.1250	1.3764	0.6323
Column 17	26.3438	316.1250	0.7315	0.6323
Column 18	26.3438	316.1250	0.6525	0.6323
Column 19	29.3000	351.6000	0.3125	0.7032

- Tanco and Connell do not want to fix the columns that are out of plumb and want to go to mediation if they are required to fix the out of plumb columns. We are looking for some direction from the Board on how the Board would like to move forward.
- See attached third party engineering report.





**Pretreatment Facility:**

- We sent out a revised contract with the Scope of Work for Burns and MacDonald and was returned with multiple comments. We are meeting with them prior to the board meeting and will let you know the outcome of the meeting at the board meeting.

**South Plant DOVE**

- We are almost complete with the Dove report for the South Plant. Basically the State wants the South Plant to only flow to the 7 MG tank so the south plant can meet log inactivation and have a chlorine monitoring station on the discharge side of the 7 MG tank.

**North Plant Dove**

- We are complete with the Dove report and we have received approval from the State.

# TIC

## TANK INDUSTRY CONSULTANTS

*Engineering Water Tanks  
Since 1979*

7740 West New York Street  
Indianapolis, Indiana 46214  
317 / 271-3100 - Phone  
317 / 271-3300 - FAX

Pittsburgh, Pennsylvania  
412 / 262-1586

El Paso, Texas  
915 / 790-0790

Atascadero, California  
805 / 538-4206



July 6, 2021

Mr. Josh Cook  
NoCo Engineering Company  
11323 Coal Mine Street  
Firestone, Colorado 80504

RE: Expert Opinion on Roof Structure on the 7.000 MG Tank  
at the Carter Lake Filter Plant – Revised Report  
Berthoud, Colorado  
TIC 21073.S1794.001

Mr. Cook,

In fulfillment of the contract between the NoCo Engineering Company (NEC) and Tank Industry Consultants (TIC) for expert opinion related to the distortion of some roof structure components on the subject tank, this letter report will summarize the results of TIC's review and analysis of the condition of the roof structure components, review of the project documentation, and review of relevant industry codes and standards. The purpose of this evaluation is to provide an opinion on the possible causes of the deformation sustained by the tank roof structure, the structural adequacy of the tank roof structure in this condition, and recommendations for any structural modifications to rectify the distorted condition.

This review is based on documentation related to the tank design, construction, and inspection as represented on the documentation that you transmitted to us by email attachment or by DropBox link. The documents are too numerous to specify here, but generally include the following document categories:

- 1) Project Specifications, 8 documents
- 2) Contract Drawings, conformed to Addenda 1 through 3, consisting of 31 pages and dated December 12, 2019.
- 3) Approved Submittals, 50 documents
- 4) Shop Coating Reports, 2 documents
- 5) Observation and Testing Reports, 4 documents
- 6) Field Orders, 12 documents
- 7) Meeting Minutes, 42 documents
- 8) Requests for Information, 23 documents
- 9) Measurement and Data Collection, 3 documents
- 10) Project Photos, 2910 images

TIC has completed a comprehensive review of the structural analysis and construction documents as well as all other relevant project documentation

*an Employee Owned Company*

and requirements for this project. Our findings and observations are presented below along with recommendations on rectifying the distortion and future monitoring of the tank roof structure.

## BACKGROUND

The subject tank is located at the water treatment facility. The tank was designed and constructed by Tanco Engineering, Inc. (Tanco). The site elevation is approximately 5,500 feet above sea level. The welded steel has a nominal capacity of 7 million gallons with a diameter of 227 feet and a shell height of 25.33 feet. For clarity in the discussion included in the report, the drawing shown in Figure 1 below depicts the pertinent components of the roof structure and defines nomenclature used to identify them.

### NOMENCLATURE DRAWING

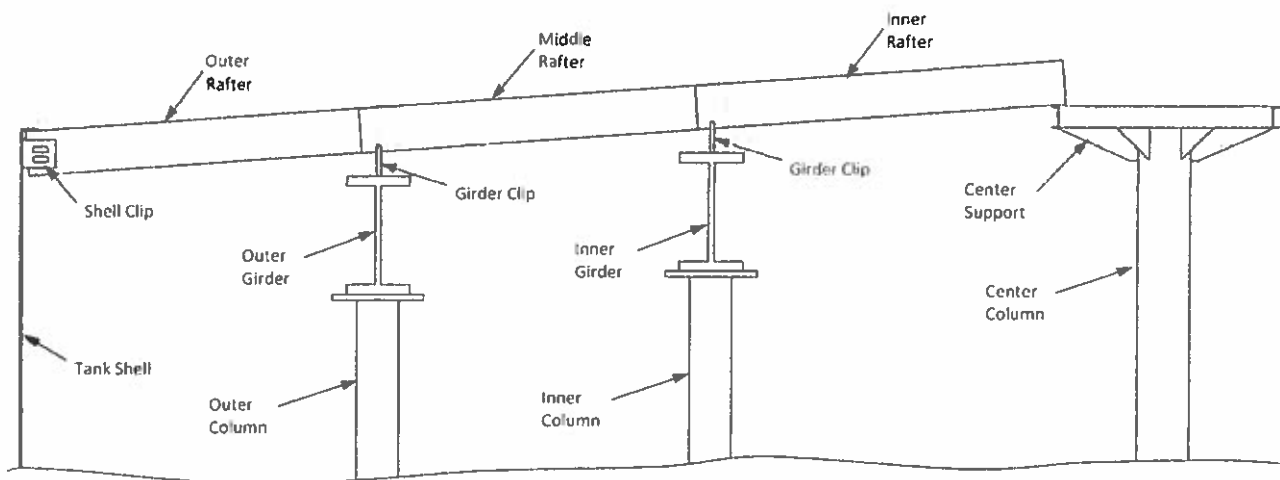


FIGURE 1

Tank construction was initiated in 2020 and construction of the tank structure was completed in 2021.

The location of this project was subjected to a period of cold weather (low temperatures of approximately -10°F) after the roof structure and roof plates had been installed. During an inspection of the tank after this cold period it was observed that some of the girder clips had deformed. From the observation of this condition as you explained to me, the distortion appeared to be the most severe on the clips supporting the inner bay rafters on the inner girder. The photo below, Figure 2, is an excerpt from the project document titled 'Field Order 12 – Complete.pdf'. I have added notation indicating the bent girder clips.

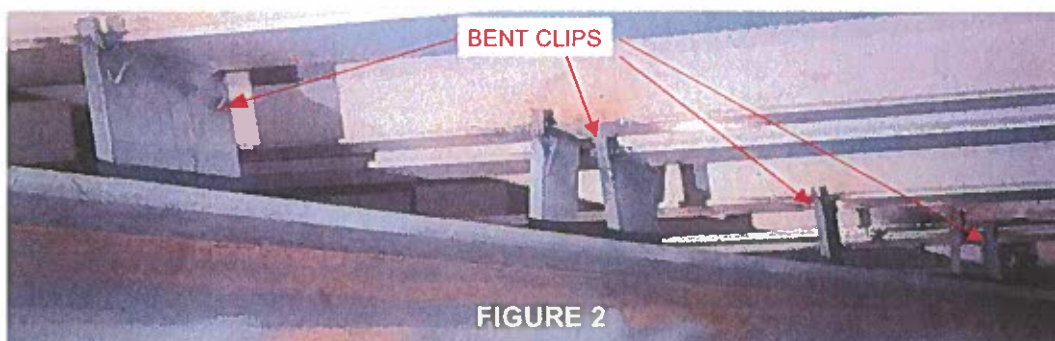


FIGURE 2

From the information we received, the girder clips on the inner girder supporting the outer end of the inner bay rafters were bent at all locations throughout the circumference of the tank. However, the distortion of some of the girder clips could not be measured because repairs had already been made on those clips. The summary of measurements of tilt of the girder clips, girders, and columns is included in the document titled 'Chair Data.xlsx' that was emailed by NEC on May 20, 2021. As noted in that document, the deviation from plumb for the inner bay girder clips varied between  $1/16$ -inch to  $1\frac{3}{16}$ -inch. Based on visual observation, the inner bay rafters were not observed to have buckled, bowed, or twisted under the forces that caused deformation of the girder clips.

Measurements of the other girder clips indicated small deviations from a true vertical plane. The measured deviations of these clips generally vary from about  $1/32$ -inch to approximately  $7/32$ -inch resulting in a maximum deflection off a vertical plane of a little over 2 degrees. Based on the data collected, it is not determinable whether these deviations possibly relate to deflections or out-of-plumb condition of the girders to which they are attached or if the non-vertical alignment might have occurred during installation or after cooling of the attachment welds. Therefore, for purposes of this evaluation, we are only examining the distortion of the girder clips for the inner bay rafters.

The tank roof structure is composed of rafters, girders, and support columns. The inner end of the inner bay rafters is supported on its bottom flange by the center support and center column. The outer end of the outer bay rafters is supported by clips that are welded to the tank shell. For all other locations, the rafters are supported on the bottom flange by girder clips mounted to the top flange of the girders. The girders are straight chord girders spanning between pipe columns. The girder clips vary in height across the girder to produce the appropriate shape for the specified pitch for the cone roof. The roof structure consists of the following quantity and size of structural members:

Description of tank structure from the center of the tank (indented items indicate sub-structure components).

- (1) 10-inch standard weight pipe center column
- (42) W12x14 inner rafters with one row of lateral bracing
  - (6) W21x93 inner girders
  - (6) 8-inch standard weight pipe inner columns
- (78) W12x30 middle rafters with two rows of lateral bracing
  - (12) W21x93 inner girders
  - (12) 8-inch standard weight pipe inner columns
- (120) W12x30 outer rafters with two rows of lateral bracing

According to the Tanco construction drawings for project number 8-013, dated 3/4/20, sheet 013-8, shows the connection requirements for the rafters. The outer end of the outer bay rafters is supported through the web by bolting to the shell clips. The inner end of the inner bay rafters is supported by the bottom flange of the rafters resting on the girder clip and welding to the clip with a  $1/4$ -inch fillet weld on both sides of the clip. For the outer rafters and middle rafters supported by clips on the outer girder, the drawing shows that

the underside of the bottom flange of the rafters are to be welded to the girder clip with a ¼-inch fillet weld on both sides of the clip. For the middle rafters and inner rafters supported by clips on the inner girder, the drawing shows no attachment of the rafters to these clips. Because the AISC 360 specification requires that points of support for beams and girders are restrained against rotation about their longitudinal axis, it is unknown if the absence of attachment weld at this location is deliberate or unintentional. The document titled '*Field Order 12 – Complete.pdf*', contains two notations on page 6 as follows:

- *All of the inner and outer column rafter chairs were found to be welded to the rafters.*
- *Missing welds on rafter chairs (caption on the top left photo)*

Although these two statements seem to be contradictory, TIC understands that during performance of remedial work on the roof structure by the contractor in May 2021, that all rafters have been welded to the girder clips.

On sheet 013-8 of the construction drawings, the shell clips are shown to have slotted holes with a slot size of 1-inch wide by 2½-inches long. The detail for the connection of the rafters to the shell clips, View B-B, on sheet 013-8 includes an instruction to "back bolt off ¼ turn and tack". Although not explicitly stated, TIC believes that the intent of this instruction was to allow radial movement within the limits of the slots in the shell clips at this connection. According to the notations in the document titled '*Field Order 12 – Complete.pdf*', the connection of the outer rafters to the shell clips does not conform to the details shown in the construction drawings. The bolt holes were not placed in the rafter web in the configuration shown on the Tanco drawings, but instead had to be offset to avoid overlapping washers on the shell clip slots. The bolt holes were offset more than the ⅛-inch shown on the Tanco drawings to allow for clearance of the two washers. According to the photo and notation on page 5 of the document titled '*Field Order 12 – Complete.pdf*', the two bolts appear to be set at opposite ends of the two slots eliminating any possibility for the connection to accommodate radial movement that might develop in the tank structure.

## REVIEW OF STRUCTURAL DESIGN REQUIREMENTS

The project specifications include 3 addendums. The only changes in the addendums related to design or construction of the tank roof is contained in Addendum 2. That change deleted the requirement for seal welding in the interior side of roof plate lap joints. All other requirements for design and construction of the tank roof structure system are contained in Section 13411 of the specification. This section incorporated the 1996 edition of AWWA D100 under Sec. 1.2 – Quality Assurance. A later requirement related to structural design of the tank and foundation refers to AWWA D100, 2011 edition, so TIC interprets that the current edition of D100 (2011) is the design basis for the project based on the contract documents. The structural calculations provided by Tanco Engineering are based on AWWA D100-11, so this is consistent with our interpretation. Additionally, Addendum 2 also incorporated design per Section 14 of the 2011 edition of AWWA D100 into the project specifications. Section 14 of AWWA D100 provides an alternative basis for design of the tank shell allowing higher allowable stresses than the base standard in exchange for additional material requirements and additional inspection and testing. This additional requirement did not impose any changes on the design of the roof structure. Based on our review of the specifications, it appears that they do not include any requirements for design of the tank roof structure that go beyond the minimum requirements of AWWA D100.

AWWA D100-11 requirements for design of the tank roof structure appear in Section 3.6 – Roof. For column-supported cone roofs, AWWA D100-11 specifies that the design shall conform to AISC Steel Manual, 13<sup>th</sup> edition. The 13<sup>th</sup> edition of the manual incorporates the 2005 edition of AISC 360 –

Specification for Structural Steel Buildings with a few exceptions and special requirements. AWWA D100-11 does not contain any special requirements related to structural connections or any provisions requiring the structural details to be able to accommodate differential movement of the tank components. AWWA D100-11 specifies the following special requirements and exceptions to the AISC 360 provisions:

- 1) Friction between the roof plates and rafters may be assumed to provide the necessary lateral support of the rafter compression flange as long as:
  - a. Rafters are not comprised of trusses or open web joists.
  - b. Rafter nominal depth shall not exceed 15-inches.
  - c. Design roof slope does not exceed 2 in 12.
  - d. The roof is not insulated.
- 2) The minimum design roof slope is  $\frac{3}{4}$  in 12.
- 3) The maximum slenderness ratio,  $KL/r$ , for columns is 175.
- 4) Rafters shall be designed based on allowable stress levels for A36 material unless the design roof live load exceeds 50 pounds per square foot.
- 5) Rafters shall be placed above the top capacity level.
- 6) Unless otherwise specified, priming or painting of contact surfaces between roof plates and rafter is not required.
- 7) The maximum rafter spacing for supported cone roofs is 84-inches with lesser spacing possibly required by equation (3-39) based on project design parameters. Based on the project design criteria, the maximum rafter spacing for this roof is 70.7 inches (5.89 feet).
- 8) For supported cone roofs requiring multiple columns and intermediate support girders, the rafters may be set directly on chord girders producing slightly varying rafter slopes. The slope of the flattest rafter shall conform to the specified roof slope.
- 9) Construction details shall provide for lateral support of the base and top of roof support columns.

AWWA D100-11 does contain an entry in Appendix B – Default Checklist that indicates that the default requirement for the connection of the roof to the tank shall be capable of withstanding *[differential]* thermal expansion caused by a change in temperature of 180° Fahrenheit (-40°F to +140°F). However, this default requirement is in reference to Section 15.3 of AWWA D100, a section that does not exist in the 2011 edition. This reference applied to design of supports for aluminum dome roofs to address differential thermal expansion between the carbon steel tank and the aluminum roof. This oversight was discovered by the AWWA committee and has been corrected for the next edition of AWWA D100 that has been approved and is scheduled for publication later this year. In the new edition, this entry has been deleted from the default checklist. AWWA D100-11 does not contain any requirements related to design for thermal expansion of tank components.

AISC 360 requirements for structural design incorporate provision for all types of structural systems, but none of them are specific to tank roof structure systems. The AISC 360 provisions of interest for the discussion are as follows:

- 1) At points of support, beams, girders, and trusses shall be restrained against rotation about their longitudinal axis unless it can be shown by analysis that the restraint is not required.
- 2) Self-limiting inelastic deformations of the connections are permitted.
- 3) Holes for bolted connection can be standard holes ( $^{15}/_{16}$ -inch diameter for  $^{7}/_{8}$ -inch bolts), short-slotted holes ( $^{15}/_{16}$ -inch wide by  $1\frac{1}{8}$ -inch long for  $^{7}/_{8}$ -inch bolts), or long-slotted holes ( $^{15}/_{16}$ -inch wide by  $2\frac{3}{16}$ -inch long for  $^{7}/_{8}$ -inch bolts). Oversized holes are not permitted in bearing type connections. For bearing type connections, slots shall be perpendicular to the direction of the applied load.
- 4) The minimum spacing between bolt holes is  $2\frac{2}{3}$  times the nominal diameter of the bolt. For this tank using  $^{7}/_{8}$ -inch bolts the minimum center-to-center spacing is 2.33-inches.
- 5) Bolts in connections designed for the snug-tight condition (not requiring prestressing of the fasteners) to be tightened in accordance with the requirements of the '*Specification for Structural Joints Using High-Strength Bolts*' published by the Research Council on Structural Connections. Note that this specification applies even to joints not using high-strength bolts and for high-strength bolts used in bearing type connections. The snug tightened condition is the tightness that is attained with a few impacts of an impact wrench or the full effort of an ironworker using an ordinary spud wrench to bring the plies into firm contact.

Although not directly applicable to water storage tanks, a review of API 650 – Standard for Welded Steel Tanks for Oil Storage is useful to consider industry design requirements developed specifically for similar structures. The 12<sup>th</sup> edition (2018 including 3 addendums and 2 errata sheets) does contain provisions related to design for thermal expansion of tank components. However, those provisions only apply to tanks designed to store product at elevated temperatures (above 100° Fahrenheit) or for tanks constructed with components made from dissimilar metals such as carbon steel and stainless steel. Additionally, this standard does not include any special provisions for design of tank roof structures for the effects of differential thermal expansion. The provisions for design of the tank roof structure also follows the provisions of the AISC 360 specification, similar to the requirements of AWWA D100. API 650 includes additional special requirements for structural system components, but none of those requirements are relevant to the discussions in the current evaluation.

## REVIEW OF STRUCTURAL CALCULATIONS AND CONSTRUCTION DRAWINGS

The structural calculations for the tank roof structure appear to generally comply with the requirements of the project specifications, AWWA D100-11, and AISC 360-16. However, during our review of the structural calculations, TIC identified several issues that appear to not conform to the project requirements.

- 1) The structural calculations did not appear to include any analysis of the bolted connection for the outer rafter to shell clip connection.
- 2) The structural calculations did not appear to include any explanation for the design of the outer rafter to shell clip connection that would permit other than snug-tight bolts.

- 3) The structural calculations did not appear to include any analysis to show that the requirement in AISC 360 that beams be restrained against rotation about their longitudinal axis at points of support is not applicable to the support of the inner and middle rafters at the girder clip supports on the inner girder.
- 4) If the inner and middle rafters supported on the girder clips on the inner girder were intentionally shown to not be connected to the girder clips to allow structural movement, the structural calculations for design of the inner girders would have to include special consideration for lateral bracing of the girder top flange. No indication of such design was observed in the structural calculations.

The construction drawings appear to include details that are consistent with the structural design and in most instances comply with the requirements of the project specifications, AWWA D100 and AISC 360. However, during our review, TIC identified several issues that appear to not conform to the project requirements. Those items are as follows:

- 1) The size of the slotted holes in the shell clips exceeds the AISC 360 allowable size for long-slotted holes.
- 2) The size of the holes in outer rafters at the shell clip connection exceeds the AISC 360 allowable hole size.
- 3) Spacing between slots in shell clips are less than the minimum required spacing per AISC 360.
- 4) If the inner and middle rafters supported on the girder clips on the inner girder were intentionally not shown to be connected to the girder clips, this type of support does not appear to meet the AISC requirement that beams shall be restrained against rotation about their longitudinal axis at points of support.
- 5) The instruction to back off the bolt  $\frac{1}{4}$  turn for installation of the bolts at the outer rafter to shell clip connection does not conform to the AISC requirement for installation of bolts in the snug-tight condition. TIC did not find any explanation in the structural calculations for the design of this connection that would permit other than snug-tight bolts.
- 6) NoCo Engineering Company informed TIC that the holes in the outer rafters for the shell-clip connection were made in the field. There is no indication of the method of making the holes or of the required tolerance on size, shape, or edge finish of the holes. Thermally cut holes produced free hand are only permitted if specifically approved by the Engineer of Record. To ensure bearing of both bolts, hole spacing is critical and the proper alignment is generally only achievable with the use of a jig or fixture and mechanical equipment to make the hole. The drawings do not include any special notes in this regard. NEC informed TIC that the holes were thermally cut in the field without the use of a template that could ensure proper shape, size, and spacing.

## POTENTIAL CAUSES OF STRUCTURE DEFORMATION

Distortion of the girder clips can be caused by several different conditions. The discussion below explains the different possible causes and eliminates those causes that could not have contributed to the current condition of distortion of the girder clips on the subject tank.



1) Tolerances and construction variation in bolted structures.

When tank roof structures are constructed using bolted connections, variations in the actual tank diameter and roundness can result in the buildup of axial compressive forces in the rafters as they are installed between their two supports. In some cases, the rafters are actually used to round out the tank shell as they are installed. For this tank, the outer rafters had a bolted connection only on one end, so the inner end was loose and would have landed on the girder clips before welding without creating any axial force in the rafters. This was the only bolted connection on this tank. Therefore, construction tolerances and variation were not a contributing factor to the distortion of the girder clips.

2) Weld shrinkage in roof plate seams.

The installation and welding sequence of the roof plates can create compressive forces in the rafters. I have experience with previous projects where roof plate weld seam shrinkage caused distortion in the roof structure system even without other factors contributing to the distortion. In those cases, the rafters were not stiff enough to withstand the axial compressive forces and so they bowed and twisted to get out from under the load before they could generate enough force to distort the clips. For the subject tank, the rafter sections are relatively stiff in relation to their span, and with the added lateral bracing in place, they were stiff enough to transfer substantial axial forces to the supporting girder clips.

Generally, deformation caused by roof plate weld shrinkage would be aligned in the direction of the main longitudinal seams of the ribbon rows of the roof plates (see sheet 013-9). No orientation reference is shown to indicate clocking of this layout to the tank shell, but the primary shrinkage that might occur for this roof plate layout is left-to-right across the drawing page.

When seal welding of the roof lap seams is specified, the weld seam shrinkage can be amplified even though the overhead seal welding on the underside of the lap joints is usually accomplished with welding processes that have lower heat input than those used on the top side of the joints.

Because the shrinkage along longitudinal joints would be much greater than that along the transverse joints at the ends of the rectangular plate, it would be expected that the compressive forces in the rafters would vary around the circumference of the structural system. However, based on the measured deflections of the girder clips for this tank, the magnitude of girder clips distortion does not appear to consistently follow a sinusoidal curve. Therefore, while TIC believes that the weld shrinkage might have been a contributing factor by creating a tight roof membrane surface, it does not appear that this would have been the main cause of the distortion.

3) Differential settlement of columns in vertical radial plane.

When roof support columns settle relative to the tank shell, or in the case of multi-span roof systems such as used on the subject tank, if columns settle relative to each other in a radial plane, the settlement causes a reduction in the true length between rafter support points. When the rafters are rigidly connected at the points of support, this reduction produces axial compressive forces in the rafters. When column settlement occurs on multi-span roof systems, any resulting distortion can occur in any span or different spans depending on which columns settled and the amount of settlement relative to each other or to the tank shell.

Column settlement is generally only encountered as a contributing factor to rafter bowing or twisting or other form of roof structure distortion after the tank has been filled and subject to the weight of the water for an extended period of time. Additionally, the foundation settlement shape is generally a dishing type settlement with the largest settlement occurring at the center of the tank.

Since the distortion in question is limited to the girder clips on the inner girder, this would only have occurred if the center column settled relative to the inner row of intermediate columns. However, this tank has yet to be filled, so column settlement just due to self-weight of the roof system is unlikely to have been a contributor to the girder clip distortion.

#### 4) Tank over-pressurization

If the tank is subjected to over-pressurization, the roof membrane would balloon up off of the rafters and pull inward on the joint between the roof plates and the tank shell. The radial thrust load generated by this event would exert an axial compressive force on the outer rafters. This force would be transferred to the outer girders which in turn would transfer some load into the middle rafters. If the girder clips were attached to the rafters on the inner girder, this radial load would again transfer at the inner girder from the middle rafters to the inner rafters. Although probably greatly diminished at that point, the final load transfer would occur from inner rafters to the center support. In the case of tank over-pressurization, when the depth of all the rafters is the same, the most likely location for girder clip distortion would be at the outer girder where the loads would be the highest. With varying depth rafters, the distortion might tend to occur at a different location where the girder clips are taller and, therefore, the most flexible.

Tank over-pressurization can occur in three ways: (1) overfilling the tank with an inadequate overflow system condition, (2) filling the tank with occluded vent assemblies or other condition producing inadequate venting capacity, and (3) an increase in the operational inflow rate above the design flow rate used for sizing the tank vent. Since the tank has yet to be filled, this potential cause is ruled out as a possible contributor to the girder clip distortion.

#### 5) Inadequate freeboard during a seismic event.

Although not a uniform over-pressurization event like those described above, inadequate freeboard during a seismic event can cause similar distortion to the roof structure. In this case, the sloshing wave generated by the seismic ground motion can impact the underside of the roof membrane causing it to balloon up off of the rafters and generate the axial forces in the rafters similar to that caused during an over-pressurization event. However, for distortion caused by insufficient freeboard, the distortion is generally limited to only a portion of the roof structure on opposite sides of the tank along the direction of ground motion. In addition to potential bowing or twisting of rafters or distortion of girder clips, this event might also cause buckling in the shell top angle and waviness of the roof plates in the general direction of the ground motion.

Since the tank has yet to be filled, this potential cause is ruled out as a possible contributor to the girder clip distortion.

#### 6) Differential thermal contraction.

As noted in the background discussion at the beginning of this report, the location of the project experienced a period of extreme cold earlier this year. This type of exposure can produce thermal

differences from the exterior exposed roof to the internal roof structure. After prolonged exposure to cold temperatures, it is expected that the roof membrane and internal roof structure might reach a steady state temperature with little differential from the exterior roof surface to the interior roof structure components. However, when the temperature varies from daytime highs to low overnight cold, a steady state condition would not develop even if the daytime high temperatures are not very high themselves.

During this cold period, the differential temperature from the exterior exposed roof membrane to the internal roof structure elements is estimated to be on the order of 60° Fahrenheit. This includes the effects of exterior roof plate exposure to atmospheric black body radiation during the night.

Based on statements that you made during previous discussions, the distortion of the girder clips was not observed prior to severe cold period. You indicated that comments by construction crew personnel indicated that the clips were not bent over during the installation, and they were generally straight when tank construction was complete. Then, during an inspection of the tank prior to tank coating activities, the distorted girder clips were observed. Based on your statements, the distorted condition of the girder clips was discovered after the severe cold period had passed.

In the case of differential thermal contraction of the tank components, this would generally be expected to occur in a relatively uniform fashion around the entire circumference of the tank. There will be some variation, especially if other contributing factors are in play such as roof seam weld shrinkage. The weld shrinkage would not result in a uniformly taut roof membrane, so the effect of axial compressive loads in the rafters would vary based on how much compressive load is already imposed on the roof structure components due to the welding of the roof plates.

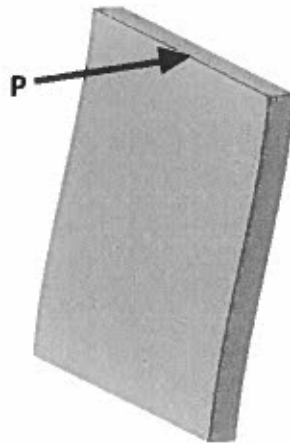
It is expected that the girder clip deformation would occur in the rafter bay providing the least resistance to such deformation. This could be the bay with the least number of rafters or the bay with the tallest, and therefore most flexible, girder clips. For this tank, since the rafters are all nominally the same depth, the girder clips across any girder are generally the same height and would provide uniform resistance compared to adjacent clips. Therefore, based on review of the roof structure configuration, TIC expects that the largest component of any girder clip distortion would occur at the girder clips for the inner bay rafters where the number of clips resisting the axial compressive forces is the least. This appears to be consistent with the data and measurement of the existing structure provided for our review.

## **CALCULATION OF DIFFERENTIAL THERMAL CONTRACTION**

To gauge the impact of thermal differential movement of the steel, a simple calculation was performed to estimate the magnitude of the thermal contraction that could have resulted during the severe cold period experienced at the site. For purposes of this calculation, the temperature differential is taken to be 60° Fahrenheit. Given the tank radius of 113.5 feet, the resulting shrinkage of the tank roof plates relative to the supporting structural system is calculated to be slightly over ½-inch. This would be on top of any existing radial compressive forces resulting from the roof seam welding. This magnitude of estimated shrinkage roughly correlates to the measurements of girder clip distortions.

The second calculation related to the distortion of girder clips is to estimate the axial force in the rafters needed to produce the measured deflections. Simple hand calculations indicate that the force required to generate the largest deflection (1.17-inches) in the girder clips would have quickly exceeded the yield strength of the material resulting in plastic deformation of the girder clips. A verification calculation was

also performed using RISA-3D finite element software. The image shown below in Figure 3 shows the deflected shape of the clip with the largest deflection as calculated by the RISA-3D software. This depicts the distortion that the clip would undergo when an axial force in the rafter is transferred to the clip. This force, denoted by 'P' in the figure, is applied transverse to the plane of the girder clip. Also, for this analysis, the top and bottom edges of the clip are modeled as fixed because they would have been welded top and bottom, on both sides of the clip, to the girder below and the rafter above. This deflected shape closely approximates the distorted clips shown in Figure 1 of this report.



**FIGURE 3**

## **STRUCTURAL IMPACT OF CLIP DEFORMATIONS**

To determine the effect of the distorted clip on the structural capacity of the roof system would require a detailed analysis which is beyond the scope of the current evaluation. However, for purposes of providing a complete discussion of the topic, TIC has the following observations:

- 1) If the attachment welds have not failed, the inherent capacity in the girder clips with the existing amount of distortion is probably sufficient to continue to support the rafter reactions based on project design loads.
- 2) If other contributing factors arise in the future, such distortion could increase to the point of causing failure of the welds connecting the girder clips to the girder or the rafter. The effect of such weld failure is that the rafters may drop until they come to rest on the girder flange. If this were to occur on isolated rafters, this condition is not expected to result in catastrophic failure of the roof structure. Instead, the roof plate would sag in the location of the dropped rafter section until it came into contact with the rafter flange or, if the roof membrane is tight enough, the roof plate might span between adjacent rafters as a catenary tension membrane element. However, if all rafter connections were to break loose along a girder, then that girder's top flange would not be rigidly braced against lateral-torsional buckling and the girder capacity could be exceeded.
- 3) For the subject tank, the heavy rafter sections combined with lateral bracing has proven sufficient to resist bowing and twisting of the rafters enough to force the distortion of the girder clips to escape axial thrust loads. TIC believes that having the girder clips be the weaker part of the system is preferable to having the rafters bow, twist, or buckle under the combined design loads plus axial compressive forces from any cause.

- 4) As noted in the discussion of AISC design provisions, the AISC 360 specification states that self-limiting inelastic deformations of the connections are permitted.

## DEVIATION OF COLUMNS AND GIRDERS

From the information we received, the girders and columns are out-of-plumb by varying degrees. The AISC Code of Standard Practice, 2005 edition, is incorporated into the design requirements of the AISC 360 specification. The allowable design strength for structural members determined in accordance with AISC 360 incorporates consideration for deviation from theoretical geometry up to the maximum allowable erection tolerances specified in the AISC Code of Standard Practice.

The column out-of-plumbness is summarized as follows:

- 1) The AISC Code of Standard Practice allows a maximum out-of-plumb tolerance for columns up to  $1/500^{\text{th}}$  of the column height.
- 2) The column verticality was initially measured using a 2-foot long level applied against the lower end of the column (see Figure 4) with the top of the level approximately 4 feet above the tank floor. Although this method does not result in precision measurements due to the level of accuracy of measurements upon which it is based, the accuracy of this measurement is considered acceptable for the present discussion. Due to the relatively low accuracy of the measurements on the 2-foot long level, the estimated deviation from plumb is considered to have a margin of error of approximately 1-inch to 2-inches over the full height of the columns. Using this method, the maximum measured deviation from plumb for the inner girder support columns is estimated to be approximately 6 inches and the maximum measured deviation from plumb for the outer girder support columns is also estimated to be approximately 6 inches with both estimates subject to the error tolerance noted above. Additional measurements were obtained by NEC measuring the deviation from plumb over the full height of the roof support columns. That revised data is summarized below.
  - a. Additional measurements were taken for the full height of the column using a self-leveling laser level applied along two adjacent quadrants of each column. The columns were measured for deviation from plumb in two orthogonal directions and the maximum resultant deviation was calculated. Those measurements were provided to TIC on July 6, 2021, in the form of a spreadsheet in a document titled 'Column Plumbness.xls'. This spreadsheet documents the field measurements of the out-of-plumb condition of all 19 roof support columns in the tank.
  - b. Using this more accurate method, the maximum measured deviation from plumb for the inner girder support columns is estimated to be approximately 1.4 inches. For the inner columns, 5 out of 6 of the columns exceed the AISC allowable plumbness tolerance.
  - c. Using this more accurate method, the maximum measured deviation from plumb for the outer girder support columns is estimated to be approximately 2.9 inches. For the inner columns, 10 out of 12 of the columns exceed the AISC allowable plumbness tolerance.
  - d. The more detailed measurements confirm the conclusion noted above that the first plumbness measurement method using the 2-foot long level is not an accurate method. However, even with the more accurate measurements, 15 out of 19 of the roof support

columns exceed the AISC maximum allowable tolerance for plumbness. From the revised measurements provided, the remainder of the columns are within the AISC allowable plumbness tolerance.

- 3) As depicted in Figure 4 below, the out-of-plumb measurements can indicate either of two possible conditions. The shape designated as Condition 1 in that figure depicts a column that exhibits a curved departure from the theoretical plumb line. Condition 2 indicates a column that is leaning in one direction. Without additional detailed measurements, it is indeterminable if the actual deflection of the columns is a result of Condition 1, Condition 2, or a combination of both.
- 4) The inner support column length is 26.65 feet or 319.8 inches. Based on the AISC provisions, the maximum allowable deviation from plumb for this column is 0.64 inches.
- 5) The outer support column length is 24.46 feet or 293.5 inches. Based on the AISC provisions, the maximum allowable deviation from plumb for this column is 0.59 inches.
- 6) Based on analysis of the measurements noted above, the eccentricity of the mid-height of the columns from the theoretical plumb line is estimated to be on the order of 2 inches if the column shape conforms to Condition 1. If the columns are leaning as depicted in Condition 2, the top-to-bottom misalignment of the column centerline is estimated to be on the order of 1.5 to 2 inches as determined from the revised plumbness measurement data.
- 7) For either possible column condition, both the estimated eccentricity and the estimated out-of-plumb condition exceed the maximum allowable plumbness tolerances noted above.

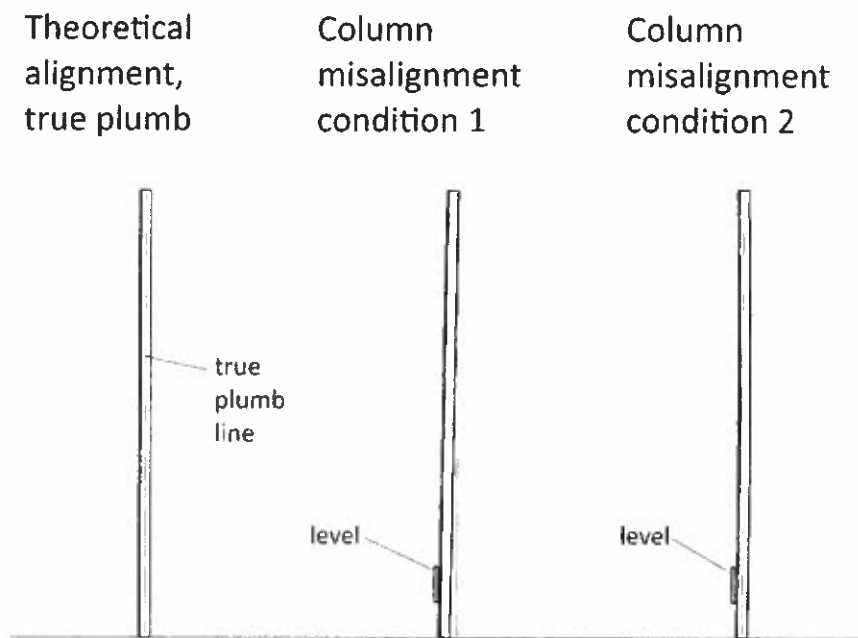


FIGURE 4

The girder out-of-plumbness is summarized as follows:

- 1) The AISC Code of Standard Practice does not specify any out-of-plumb tolerance for girders. In addition, no limitations on maximum out-of-plumb tolerances for girders could be found in other relevant industry codes and standards. Design guidelines and research for federal highway bridge construction indicate that a maximum out-of-plumb tolerance for curved steel girders should be considered as approximately 1%. This information is provided as a reference point. Because the tank structure does not include curved girders, the federal highway bridge design guidelines for curved steel girders, where torsional stresses can be a significant design consideration, are considered to be overly conservative for the straight girders used in the roof structure for this tank.
- 2) The rafters brace the girders against twist at relatively close intervals at locations where the rafters are welded to the girder clips.
- 3) The out-of-plumb condition was measured only for the outer girder ring. The outer girders have a depth of 21.6 inches. The maximum deviation from plumb for the girder was 0.56 inches.
- 4) Although the 1% out-of-plumb limit noted above is not applicable and considered overly conservative for the straight girders, it is noted that only 4 of the outer girders had plumbness measurements that falling within that 1% limit. For reference, 7 of the 12 outer girders fall within a 1.5% out-of-plumb condition. Also, for reference, 9 of the 12 outer girders fall within a 2% out-of-plumb condition.

## FUTURE CONSIDERATIONS

Future operational conditions for the tank should be considered when establishing the inspection plan for the design life of the tank. Based on the discussions presented in this report, axial compressive loads could develop or increase in the roof structure system. If such conditions occur, additional distortion of girder clips could result. Those conditions that should be considered in the development of the guidelines for operation and future inspection of the tank include:

- 1) Column settlement. If the tank foundation settles causing differential settlement between the roof support columns and the tank shell, or between the roof support columns in a radial plane, then the tank roof structure may be subjected to unanticipated stresses.
- 2) Tank over-pressurization. If an overflow event occurs, or if it is discovered that vents have been occluded while the tank has been in operation, or if there is an operational change to the tank that results in an increase in the maximum fill rate of the tank, then the tank design, features, operating conditions may require modification.
- 3) Inadequate freeboard during a seismic event. If the tank is ever subjected to a large seismic event that results in a sloshing wave large enough to impact the underside of the roof membrane, then the tank roof structure, top angle, and upper shell may be subjected to unanticipated forces and stresses.

TIC recommends that the tank be evaluated to determine if any of the above conditions have occurred to determine if they have resulted in any distress or distortion of the roof structure system or other portions of the tank.

## CONCLUSIONS AND RECOMMENDATIONS

Based on TIC's review of all of the project data, measurements, and conditions associated with the distortion experienced in the roof structure, we have reached the following conclusions:

- 1) Distortion of the girder clips was most likely caused by a combination of conditions. We believe that weld shrinkage during welding of the roof seams created an initially tight roof membrane. When the cold weather period occurred, the thermal gradient from exterior exposed steel roof membrane to the roof structural members caused differential thermal contraction between these elements that resulted in an increase in the roof membrane tension stress large enough to cause the distortion of the girder clips.
- 2) If similar distortion of the girder clips occurring in the future, from whatever cause, resulted in failure of the clips or the clip attachment welds, similar distortion can be expected. Additionally, as the tank foundation settles and any other contributing factors arise, the resulting distortion might not be limited to distortion of the girder clips. In future cases, the distortion could include, or be limited to, bowing, twisting, or buckling of the rafters. This is an inherent characteristic of tank roof structure systems that are not supported on a slab foundation.

Based on TIC's review of all of the project data, measurements, and conditions associated with the distortion experienced in the roof structure, we have the following recommendations.

- 1) TIC recommends that the girder clips supporting inner bay rafters on the inner girder be detached from the rafters and straightened, if possible, or replaced with new straight clips. Based on information provided by NEC, TIC understands that the contractor has already performed these repairs.
- 2) TIC recommends that girder clips not be designed to prevent distortion of the clips under axial loads in the rafters. This would result in the rafters, girders, and connections having to resist these loads. Unless specified in the contract documents, the rafters are not required to be designed for axial loads in accordance with AWWA D100 or AISC 360. Axial loads from any cause, as discussed in this report, are not anticipated and are generally considered minor incidental loads. If the magnitude of such loads is more than incidental, it is preferred to have a mechanism in the structural details that can relieve these loads without causing bowing or buckling of the rafters. The revised detail used for the repair of the girder clips supporting the inner rafters on the inner girder provides such a detail.
- 3) If NEC is concerned about the magnitude of the girder out-of-plumb condition, TIC recommends that the roof structure design should be re-analyzed to determine if the out-of-plumb condition creates any torsional stresses or reduction in beam strength that results in an overstress condition in the girders.
- 4) Due to the shallow bedrock condition at this site, it is not anticipated that future column settlement is likely. However, if any repair or modifications to the clips is required in the future, consideration should be given to utilizing modified clip details that could accommodate movement at the connections that might result from any of the causes previously identified.
- 5) Due to the non-compliant configuration of the shell clips, the method of cutting holes in the rafter for the shell clip connection, and the potential non-uniformity in bolt hole size and spacing, TIC



recommends that that the roof structure design should updated with a detailed analysis of the shell clip connection to confirm its adequacy. This analysis should account for holes larger than allowed by AISC 360, slots larger than allowed by AISC 360, bolt spacing less than allowed by AISC 360, and the potential that the structural load may be supported on only one bolt. If a detailed analysis of this connection is not performed to determine the adequacy of the non-compliant details, then TIC recommends that the joint should be converted to a welded connection. In such case, the structural design would need to be updated to determine the minimum structural weld requirements. Also, consideration should be given to how to adequately protect or seal the faying surfaces.

- 6) TIC recommends that the columns that exceed the AISC maximum out-of-plumb tolerance should be rectified by relocating the column base and, if necessary, trueing up the column straightness, to make the columns plumb and straight within AISC tolerances.
- 7) The list of apparent deficiencies in the structural calculations should be provided to the contractor and Engineer of Record so that they may be addressed, rectified, mitigated, or otherwise resolved to the satisfaction of the owner.
- 8) TIC recommends that the roof structure be evaluated for any additional roof structure deformation during the first anniversary inspection.
- 9) TIC also recommends that the tank be monitored for similar conditions at intervals not exceeding 5 years.

Should you want to discuss this further or require any additional explanation, you may contact me at (805) 538-4206 or [Scott@TankIndustry.com](mailto:Scott@TankIndustry.com).

Tank Industry Consultants, Inc.



Leslie D. Scott  
Chief Engineer

cc: Gregory R. "Chip" Stein, P.E., Managing Principal – TIC, Indianapolis  
Sabrina Fleming – TIC

**AGENDA ITEM SUMMARY**

**ITEM NUMBER:** 6

**SUBJECT:** June Operations and Maintenance Report

**STAFF:** Darrell Larson, Plant Superintendent & Rick Whittet, Plant Manager

**ACTION REQUEST:** None, informational item.

---

**North Plant**

Plant Shutdown overnight: On June 18<sup>th</sup> at approximately 3:00 am we had a major plant shutdown due to a high clearwell level alarm. The plant went into standby as a result and shut down the cells. The raw water control valves did not close which caused an overflow of the feed trough, flooding some portions of the plant. The alarm dialer did not dial out and the alarm was not found until the day shift operator arrived on-site later that morning. By that time, water had found its way into the main PLC cabinet through a conduit and shorted out some control system components. Both Districts were notified of the emergency event and they instructed water users to reduce watering. With the assistance of Fluid Built Controls, Little Thompson Water District, and the City of Loveland we were able to get the plant up and running at approximately 3:00 pm on the 18th.

The North Plant was designed with redundant systems in place but as a result of the events on June 18<sup>th</sup> we think it would be beneficial for the Plant to perform a comprehensive analysis of the treatment plant processes to identify systems which are at risk of failure. We have begun this process internally.

**South Plant**

Due to the events on June 18<sup>th</sup> the South Plant was run at full capacity until the North Plant was back in service. The South Plant ran well during this time.

The standby generators at both Plants were re-painted in June by Coblaco.

End of Report

## AGENDA ITEM SUMMARY

**ITEM NUMBER:** 7

**SUBJECT:** June Water Quality Report

**STAFF:** Darrell Larson, Plant Superintendent

**ACTION REQUEST:** None, informational item.

---

CLFP Finished Water Quality Summary for June 2021						
All parameters were within acceptable limits						
Test Parameter	Units of Measure	CLFP Goal	Average of Results		Regulated Level (MCL)	# of Samples
Turbidity – North Plant	ntu	0.01	0.01		0.50	180
Turbidity – South Plant	ntu	< 0.10	0.04		1.0	180
Free Chlorine	mg/L	1.1 – 1.2	Avg. 1.2	Min. 1.0	0.2 – 4.0	180
pH	su	7.6	7.5		TT	60
Fluoride	mg/L	0.8	0.72		4.0	30
Chlorine Dioxide	mg/L	< 0.20	0.0		0.80	30
Chlorite	mg/L	< 0.50	0.29		1.0	30
Reactive Phosphate (PO <sub>4</sub> <sup>3-</sup> )	mg/L	0.2 – 0.3	0.19		n/a	60
Temperature	°F	n/a	52°		n/a	30
Total Organic Carbon	mg/L	< 2.0	1.91		TT	60

We are looking into the possibility of terminating the discharge permit at the North Plant. We think there is a possibility to return the strainer backwash water into the recycle process of the Plant which would eliminate the need for a discharge permit.

End of Report



# **Carter Lake Filter Plant**

## **AGENDA ITEM SUMMARY**

**ITEM NUMBER: 8**

**SUBJECT: June Manager's Report**

**STAFF: Rick Whittet, Plant Manager**

**ACTION REQUEST: None, informational item**

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### **Safety Training**

June's training session was Equipment Certification (Part 1 of 2) for the heavy equipment and forklift used at the Plant.

### **Membrane Conference 2021**

Rick and Justin are planning to attend the conference (July 19th -22nd) in West Palm Beach.

### **Commercial Drivers License**

Brian has completed a CDL training course and acquired his license in June.

### **Filter 23 Warranty**

I am following up on references provided by Starr & Westbrook.

### **Project Manager Position**

The position was advertised in the Reporter Herald.

### **Upcoming Officer Election**

The Election of Officers is scheduled to occur at the next regularly scheduled Board Meeting (August 11, 2021).

End of Report

**CARTER LAKE FILTER  
PLANT PRETREATMENT UPDATES**

Item No. 6D  
July 15, 2021

**BACKGROUND SUMMARY:**

Burns and Macdonald was sent a revised contract with the Scope of Work and was returned with multiple comments. There is a meeting prior to the board meeting and the outcome will be discussed.

**BOARD ACTION:**

As appropriate by Board.

**TAP FEE AGREEMENTS**

Item No. 7A  
July 15, 2021

**BACKGROUND SUMMARY:**

The following have applied for new meter sets and need Board execution on the Tap Fee Agreement.

	<b>OWNER</b>	<b>TAP SIZE</b>	<b>LOCATION</b>
1	New Expression Homes	Budget	L185/Beebe Draw
2	Richard & Patricia Stahl	5/8"	CR 33/40-42
3	James & Kristi Paredes	Budget	L17/Panorama Est
4	Don & Nancy Matheson	Budget	CR 22/17-19
5	Kurt & Haley Thomas	5/8"	Lot 169/Beebe Draw
6			
7			
8			
9			
10			

**District taps sold in 2021:**

	Budget	5/8"	3/4"	1"	1.5"	2"	4"		Budget	5/8"	3/4"	1"	1.5"	2"	4"
January	3	0	0	0	0	0	0	July							
February	2	0	0	0	0	0	0	August							
March	2	0	0	0	0	0	0	September							
April	0	4	0	0	0	0	0	October							
May	4	1	0	0	0	0	0	November							
June	3	2	0	0	0	0	0	December							
<b>TOTAL</b>	14	7	0	0	0	0	0	<b>TOTAL</b>							

The following taps have been purchased in the Towns for 2020:

<b>TOWN TAPS</b>	<b>5/8"</b>	<b>3/4"</b>	<b>1"</b>	<b>1.5"</b>	<b>2"</b>	<b>3"</b>
Dacono	3		1			
Firestone	101	1	2	2		
Frederick	188	2				
Kersey	1					
<b>TOTAL</b>	293	3	3	2		

**BOARD ACTION SUGGESTED:**

Approve Tap Fee Agreements.

**BACKGROUND SUMMARY:**

BDO will present the 2020 Audit via a computer presentation

**BOARD ACTION SUGGESTED:**

Approve the 2020 Audit.

**SUBMITTED BY:** Stan Linker

**7B**

**Central Weld County Water District  
Management's Discussion and Analysis  
For the Year Ended December 31, 2020**

Management's discussion and analysis ("MD&A") is designed to provide an analysis of the Central Weld County Water District's (the "District") financial condition and operating results and to also inform the reader on District financial issues and activities.

The MD&A should be read in conjunction with the District's basic financial statements (beginning on page 9).

**2020 Highlights Business Type Activities**

- At December 31, 2020, net position was \$155,626,553 resulting from an increase of \$6,711,436, or 4.5% when compared to December 31, 2019.
- Total operating revenues increased to \$6,938,049 during 2020, which was \$781,726 or 12.7% greater than 2019.
- Total operating expenses were \$7,513,744, increasing \$1,203,932 or 19% compared to 2019.
- Net capital assets were \$128,217,180 at December 31, 2020 compared to \$121,474,555 at December 31, 2019 for a net increase of \$6,742,625 or 5.5%.
- Long-term liabilities increased to \$58,089,173 during 2020, which was \$58,028,769 more than 2019, see footnote 5 for details.

**Using this Annual Report**

The financial statements included in this annual report are those of a quasi-municipal corporation and a political subdivision of the State of Colorado engaged only in a business-type activity. As an enterprise fund, the District's basic financial statements include:

**Statements of Net Position** - reports the District's current financial resources (short-term spendable resources) with capital assets and long-term obligations. (See pages 9-10).

**Statements of Revenues, Expenses and Changes in Net Position** - reports the District's operating and non-operating revenues, by major source along with operating and non-operating expenses and capital contributions. (See page 11).

**Statements of Cash Flows** - reports the District's cash flows from operating activities, investing, capital and non-capital activities. (See page 12).

**Notes to Financial Statements** - the notes provide additional information that is essential to a full understanding of the data provided in the basic financial statements. The notes to the financial statements can be found on pages 13-24 of this report.

**Other Information**

In addition to the basic financial statements and accompanying notes, this report also presents certain other supplementary information. This includes the budget-to-actual information for all funds as dictated by state law.



**Central Weld County Water District  
Management's Discussion and Analysis  
For the Year Ended December 31, 2020**

**Condensed Statements of Net Position**

Year End December 31,	2020	2019
Current assets	\$25,229,470	\$24,104,172
Restricted assets	57,003,225	-
Capital assets, net	128,217,180	121,474,555
Other assets	3,265,851	3,396,794
<b>Total assets</b>	<b>213,715,726</b>	<b>148,975,521</b>
Current liabilities	1,783,851	5,841
Long-term liabilities	70,741	54,563
Bonds and Notes payable, net of current portion	56,234,581	-
<b>Total liabilities</b>	<b>58,089,173</b>	<b>60,404</b>
<b>Net Position</b>		
Net investment in capital assets	70,537,599	121,474,555
Restricted:		
Debt service	57,003,225	-
Bond and loan reserves	-	-
Unrestricted	28,085,729	27,440,562
<b>Total net position</b>	<b>\$155,626,553</b>	<b>\$148,915,117</b>

The net position of the District increased to \$155,626,553 during 2020. The District's net position reflected an increase of \$6,711,436.

**Review of Revenues**

Year Ended December 31,	2020	2019
Operating revenues		
Water sales	\$6,817,427	\$5,609,995
Other income	120,622	546,328
<b>Subtotal</b>	<b>6,938,049</b>	<b>6,156,323</b>
Non-operating revenues		
Debt issuance costs	(469,148)	-
Equity income (loss)	(130,943)	(228,245)
Earnings on investments	166,351	523,667
<b>Subtotal</b>	<b>(433,740)</b>	<b>295,422</b>
<b>Total revenues</b>	<b>\$6,504,309</b>	<b>\$6,451,745</b>

Water sales were \$6,817,427 or 90% of expenditures. Earnings on investments were down \$365,180 from 2019 due to lower interest rates on investments. Total revenues were up \$52,564 from 2019 primarily due to water sales and implemented rate increases.

**Central Weld County Water District  
Management's Discussion and Analysis  
For the Year Ended December 31, 2020**

**Review of Operating Expenses**

Year End December 31,	2020	2019
Operating expenses		
Administrative	\$ 1,862,717	\$ 1,723,596
Distribution	3,451,434	2,511,879
Depreciation	2,199,593	2,074,337
Impairment loss	0	0
<b>Total</b>	<b>\$ 7,513,744</b>	<b>\$ 6,309,812</b>

Distribution system expenditures were \$3,451,434 or 17% over budget and \$939,555 or 37.4% higher than 2019 due to system maintenance and water assessments.

Administrative services were \$1,862,717 or 2.7% more than budget and 8% higher than 2019 due primarily to insurance, salaries, and payroll taxes.

Depreciation was \$2,199,593 or 6% more than 2019 due to the completed depreciable projects during 2020.

**Capital Contributions**

Year Ended December 31,	2020	2019
Capital contribution:		
Tap fees and Line Extensions	\$7,720,871	\$10,146,587
<b>Total</b>	<b>\$7,720,871</b>	<b>\$10,146,587</b>

Capital contributions were \$7,720,871 or 18% over budget and down 23% from 2019.

**Capital Assets (Net of Depreciation)**

Year Ended December 31,	2020	2019
Land and easement rights	222,375	222,375
Water rights	30,987,163	27,042,563
Dry Creek Reservoir	13,429,897	13,429,897
Facilities	386,065	401,955
Transmission and distribution system	70,927,426	64,986,187
Office equipment and furniture	61,996	80,291
Field equipment and vehicles	331,256	320,117
Construction in progress	11,871,002	14,991,170
<b>Total</b>	<b>\$128,217,180</b>	<b>\$121,474,555</b>

During 2020, major capital asset additions consisted of water rights and transmission and distribution system.

**Central Weld County Water District  
Management's Discussion and Analysis  
For the Year Ended December 31, 2020**

**Debt and Other Financial Obligations**

The District's long-term debt was \$47,020,000 at December 31, 2020 and \$0 at December 31, 2019. During 2020, the District issued a Series 2020 Water Revenue Bond to finance capital improvements. Further debt information is available in the notes (See Note 5).

**Customer Classification, Water Rates, Revenue and Consumption**

The District currently provides water service to 2,391 taps, of which 95% are residential. All water service is metered and read on a monthly basis. The following table is a breakdown of water consumption and revenue collected by customer class in 2020.

<u>Classification</u>	<u>Water Consumption 2019</u>	<u>Water Consumption 2020</u>	<u>Percent of Total 2019</u>	<u>Percent of Total 2020</u>	<u>Revenue Collected 2019</u>	<u>Revenue Collected 2020</u>	<u>Percent of Total 2019</u>	<u>Percent of Total 2020</u>
Residential (5/8" & 3/4")	436,232,000	514,638,000	14.2%	14.4%	\$1,504,793	\$1,235,174	26.6%	17.6%
Commercial	612,701,000	632,696,000	20.0%	17.8%	1,158,251	2,208,016	20.5%	31.5%
Towns	1,927,108,000	2,316,794,000	62.9%	65.2%	2,471,483	3,110,802	43.8%	44.5%
Left Hand								
Interconnect	59,606,000	70,797,000	1.9%	2.0%	172,596	175,612	3.1%	2.5%
Hydrants	<u>25,801,000</u>	<u>20,242,000</u>	<u>0.9%</u>	<u>0.6%</u>	<u>339,339</u>	<u>267,146</u>	<u>6.0%</u>	<u>3.8%</u>
<b>TOTAL</b>	<u>3,061,448,000</u>	<u>3,555,167,000</u>	<u>100%</u>	<u>100%</u>	<u>\$5,646,462</u>	<u>\$6,996,750</u>	<u>100%</u>	<u>100%</u>

**Basic Service Fees, Rates and Changes**

The District has established a schedule of rates, fees and charges for the connection to and use of District facilities. State law provides that, until paid, all such rates, fees, tolls and charges constitute a perpetual lien on and against the property served. User charges are billed according to customer classification and usage. Each customer is subject to a minimum monthly charge, which begins when the meter is set.

In establishing the current rate schedule, it was determined that the rate must both pay for increasing operating cost, including debt service, while not overburdening District customers. The District had a rate increase for the first time since 1991. A 4% increase is in effect for the next four years.

**Historical Tap Fee Collections**

<u>Year</u>	<u>Number of Taps</u>	<u>Tap Fee Revenue</u>
2002	845	\$8,596,466
2003	895	\$9,670,827
2004	546	\$6,262,850
2005	724	\$6,926,500
2006	450	\$4,611,800
2007	305	\$3,080,800
2008	187	\$2,069,810
2009	134	\$2,322,358
2010	174	\$2,119,384
2011	156	\$1,578,975
2012	268	\$3,643,265
2013	321	\$5,796,300
2014	325	\$4,033,800
2015	545	\$6,471,634
2016	531	\$4,348,300
2017	456	\$5,097,447
2018	437	\$6,122,572
2019	456	\$6,456,875
2020	486	\$6,710,302

**Central Weld County Water District  
Management's Discussion and Analysis  
For the Year Ended December 31, 2020**

**Capital Improvement Program**

The District has an existing policy regarding capital improvements in the District system. All line extensions are paid by the individual customers as determined by a study for new service. The individual Towns and/or entities the District serves are required to pay additional fees for filter plant enhancement and infrastructure improvements for growth in the Towns pursuant to existing contracts.

The District has anticipated the need for additional raw water supplies and delivery systems to fulfill the needs of the growth in the District. The District is participating in the Northern Integrated Supply Project ("NISP") through the Northern Colorado Water Conservancy District ("NCWCD"). This project will provide new yield of water rights deliverable through the NCWCD system.

The District participated in the development of a new reservoir with Little Thompson Water District to increase the storage of water by both districts to meet the demands of growth.

Future proposed capital projects are shown below.

**Proposed Capital Project Plan 2019-2020**

<b>Project</b>	<b>2019</b>	<b>2020</b>
Miscellaneous construction	\$ 500,000	\$ 564,000
Easements	5,000	5,000
Office and field equipment	100,000	100,000
<b>Total</b>	<b>\$ 605,000</b>	<b>\$ 669,000</b>

**Contracts and Agreements**

The District is party to several contracts and agreements concerning the delivery of domestic potable water. The contracts and agreements have been approved by the District's Board of Directors after review by the District's legal counsel.

**Agreements with Cities and Towns**

The District has agreements with nine municipalities for the treatment and delivery of domestic potable water. The rates, delivery points and termination dates vary according to the individual negotiated agreements.

**Economic and Other Factors**

Overall, the District has shown increases in water revenues as a result of new developments. Operating expenses have been consistent over the last few years and reflect only minimal increases. Construction costs have increased due to needed system improvements to accommodate the growth experienced in the District.

The annual rate and extent of future growth and development within the District will be materially affected by management, zoning and land use procedures and policies established by Weld County and the individual Towns the District serves.

**Financial Contact**

The District's financial statements are designed to present users with a general overview of the District's finances and to demonstrate the District's accountability. If you have any questions about the report or need additional financial information, please contact our staff at Central Weld County Water District; 2235 2<sup>nd</sup> Avenue; Greeley, CO 80631.



**Central Weld County Water  
District**

**Financial Statements and  
Supplementary Information**

For the Years Ended December 31, 2020 and  
2019

DRAFT

# Central Weld County Water District

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## Basic Financial Statements

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DRAFT

**Central Weld County Water District**  
**Statements of Net Position**

<i>December 31,</i>	2020	2019
<b>Assets</b>		
<b>Current assets</b>		
Cash and cash equivalents	\$ 23,874,891	\$ 23,085,394
Investments	495,000	495,000
Receivables	508,266	365,865
Inventories	125,013	141,244
Prepaid items	226,300	16,669
<b>Total current assets</b>	<b>25,229,470</b>	<b>24,104,172</b>
<b>Non-current assets</b>		
<b>Restricted assets</b>		
Cash and cash equivalents	57,003,225	-
<b>Capital assets</b>		
Transmission and distribution system	100,581,075	92,819,811
Facilities	614,736	614,736
Vehicles and field equipment	681,610	707,972
Office equipment	247,711	300,383
Total depreciable capital assets	102,125,132	94,442,902
Less: accumulated depreciation	(30,418,389)	(28,654,352)
Total depreciable capital assets, net	71,706,743	65,788,550
Land, easements, water rights and reservoir	44,986,013	41,041,413
Construction in progress	11,524,424	14,644,592
<b>Total capital assets, net</b>	<b>128,217,180</b>	<b>121,474,555</b>
<b>Other assets</b>		
Investment in joint venture accounted for using the equity method	3,265,851	3,396,794
<b>Total other assets</b>	<b>3,265,851</b>	<b>3,396,794</b>
<b>Total non-current assets</b>	<b>188,486,256</b>	<b>124,871,349</b>
<b>Total assets</b>	<b>213,715,726</b>	<b>148,975,521</b>

*(Continued).*



**Central Weld County Water District**  
**Statements of Net Position (Continued)**

<i>December 31,</i>	2020	2019
<b>Liabilities</b>		
<b>Current liabilities</b>		
Current portion of bonds payable	1,445,000	
Accounts payable	336,813	4,347
Accrued expenses	2,038	1,494
<b>Total current liabilities</b>	<b>1,783,851</b>	<b>5,841</b>
<b>Non-current liabilities</b>		
Accrued compensated absences	70,741	54,563
Bonds and notes payable, net of current portion	56,234,581	
<b>Total non-current liabilities</b>	<b>56,305,322</b>	
<b>Total liabilities</b>	<b>58,089,173</b>	<b>60,404</b>
<b>Net position</b>		
Net investment in capital assets	70,537,599	121,474,555
Restricted:		
Debt service and bond reserves	57,003,225	
Unrestricted	28,085,729	27,440,562
<b>Total net position</b>	<b>\$ 155,626,553</b>	<b>\$ 148,915,117</b>

*The accompanying notes are an integral part of these financial statements.*

**Central Weld County Water District**  
**Statements of Revenues, Expenses and Changes in Net Position**

<i>Years Ended December 31,</i>	2020	2019
<b>Operating revenues</b>		
Water sales - treated	\$ 6,817,427	\$ 5,609,995
Other income	120,622	546,328
<b>Total operating revenues</b>	<b>6,938,049</b>	<b>6,156,323</b>
<b>Operating expenses</b>		
Administrative	1,862,717	1,723,596
Distribution	3,451,434	2,511,879
Depreciation	2,199,593	2,074,337
<b>Total operating expenses</b>	<b>7,513,744</b>	<b>6,309,812</b>
<b>Loss from operations</b>	<b>(575,695)</b>	<b>(153,489)</b>
<b>Nonoperating revenues (expenses)</b>		
Earnings on investments and interest income	166,351	531,531
Loss on disposal of assets	-	(7,864)
Equity income (loss) - share of joint venture income (loss)	(130,943)	(228,245)
Debt issuance costs	(469,148)	-
<b>Total nonoperating revenues (expenses)</b>	<b>(433,740)</b>	<b>295,422</b>
<b>Income before contributions</b>	<b>(1,009,435)</b>	<b>141,933</b>
<b>Capital contributions</b>	<b>7,720,871</b>	<b>10,146,587</b>
<b>Change in net position</b>	<b>6,711,436</b>	<b>10,288,520</b>
<b>Net position at beginning of year</b>	<b>148,915,117</b>	<b>138,626,597</b>
<b>Net position at end of year</b>	<b>\$ 155,626,553</b>	<b>\$ 148,915,117</b>

*The accompanying notes are an integral part of these financial statements.*

**Central Weld County Water District**  
**Statements of Cash Flows**

<i>Years Ended December 31,</i>	<b>2020</b>	<b>2019</b>
<b>Cash flows from operating activities</b>		
Cash received from customers	\$ 6,795,648	\$ 6,058,903
Cash paid to suppliers	(4,110,686)	(3,392,263)
Cash paid to employees	(1,047,677)	(963,011)
<b>Net cash flows from operating activities</b>	<b>1,637,285</b>	<b>1,703,629</b>
<b>Cash flows from capital and related financing activities</b>		
Contributed capital	7,720,871	10,146,587
Acquisition and construction of capital assets	(8,942,218)	(9,477,812)
Proceeds from long-term debt	57,679,581	-
Debt issuance costs	(469,148)	-
<b>Net cash flows from capital and related financing activities</b>	<b>55,989,086</b>	<b>1,172,975</b>
<b>Cash flows from investing activities</b>		
Earnings on investments	166,351	531,531
<b>Net cash flows from investing activities</b>	<b>166,351</b>	<b>531,531</b>
<b>Net change in cash and cash equivalents</b>	<b>57,792,722</b>	<b>3,408,135</b>
Cash and cash equivalents at beginning of year	23,085,394	19,677,259
<b>Cash and cash equivalents at end of year</b>	<b>\$ 80,878,116</b>	<b>\$ 23,085,394</b>
<b>Reconciliation of loss from operations to net cash flows from operating activities:</b>		
Loss from operations	\$ (575,695)	\$ (153,489)
Adjustments to reconcile loss from operations to net cash flows from operating activities:		
Depreciation	2,199,593	2,074,337
Changes in operating assets and liabilities		
Receivables	(142,401)	(97,420)
Inventories	16,231	(16,317)
Prepaid items	(209,631)	591
Accrued compensated absences	16,178	(7,875)
Accounts payable and accrued expenses	333,010	(96,198)
<b>Net cash flows from operating activities</b>	<b>\$ 1,637,285</b>	<b>\$ 1,703,629</b>
<b>Noncash investing, capital, and financing activities:</b>		
Equity gain (loss) share of joint venture gain (loss)	\$ (130,943)	\$ (228,245)

*The accompanying notes are an integral part of these financial statements.*

# Central Weld County Water District

## Notes to Financial Statements

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### 1. Summary of Significant Accounting Policies

#### *Form of Organization*

The Central Weld County Water District (the "District") is organized under the provisions of Colorado Revised Statutes ("CRS") Section 32-1-305(6). It is a quasi-municipal corporation and a political subdivision of the State of Colorado with all powers thereof which includes the power to levy taxes against property within the District.

The financial statements of the District have been prepared in conformity with accounting principles generally accepted in the United States of America ("GAAP") issued by the Governmental Accounting Standards Board ("GASB"). The more significant of the District's accounting policies are described below.

#### *Reporting Entity*

In conformity with GASB financial reporting standards, the District is the reporting entity for financial reporting purposes. The District is the primary government financially accountable for all activities of the District. The District meets the criteria of a primary government: its Board of Directors is the publicly elected governing body; it is a legally separate entity; and it is fiscally independent. The District is not included in any other governmental reporting entity.

As defined by GAAP established by the GASB, the financial reporting entity consists of the primary government, as well as component units, which are legally separate organizations for which elected officials of the primary government are financially accountable. Financial accountability is defined as:

- 1) Appointment of a voting majority of the component unit's governing board, and either, a) the ability to impose its will by the primary government, or b) there is a potential for the component unit to provide specific financial benefits to, or impose specific financial burdens on, the primary government; or
- 2) Fiscal dependency on the primary government and there is a potential for the organization to provide specific benefits to, or impose specific financial burdens on the primary government regardless of whether the organization has (1) a separately elected governing board, (2) a governing board appointment by a higher level of government or (3) a jointly appointed board.

Based on the above criteria, there are no other organizations that would be considered component units of the District. The District meets the criteria of an "other stand alone government."

#### *Basic Financial Statements*

The District is a special-purpose government engaged only in business-type activities. As such, proprietary fund financial statements are presented.

#### *Basis of Accounting*

Proprietary funds are accounted for on a flow of economic resources measurement focus. With this measurement focus, all assets, deferred outflows of resources, liabilities, and deferred inflows of resources associated with the operation of this fund are included on the statements of net position. Revenues and expenses are recorded in the accounting period in which they are earned or incurred and they become measurable.

## Central Weld County Water District

### Notes to Financial Statements

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Total net position is segregated into net investment in capital assets and unrestricted net position. Proprietary fund-type operating statements present increases (e.g., revenues) and decreases (e.g., expenses) in net position. Proprietary funds are used to account for activities similar to those found in the private sector, where the determination of net income is necessary or useful to sound financial administration.

#### ***Budgets and Budgetary Accounting***

An annual budget and appropriation resolution is adopted by the Board of Directors in accordance with state statutes. The budget is prepared on a basis consistent with GAAP, except that capital asset additions and principal payments are budgeted as expenditures and debt proceeds are budgeted as revenues.

- 1) On or about October 15, the District's staff submits to the Board of Directors, a proposed operating budget for the fiscal year beginning the following January 1. The operating budget includes proposed expenditures and the means of financing them.
- 2) Public hearings are conducted at regular Board meetings to obtain taxpayer comments.
- 3) Prior to December 15, the budget is legally adopted by the Board of Directors. The operating budget includes proposed expenditures and the means of financing them.
- 4) Unused appropriations lapse at the end of each year.

The following is a summary of the original budget, total revisions, and revised budget for fiscal year 2020:

	Original Budget	Total Revisions	Revised Budget
Enterprise fund expenses	\$ 14,049,500	\$ 2,976,355	\$ 17,025,855

#### ***Cash and Cash Equivalents***

The District considers all highly liquid investments purchased with an original maturity of three months or less to be cash equivalents.

#### ***Investments***

Investments, consisting of certificates of deposit with original maturities of greater than three months are measured at fair value in accordance with GASB Statement No. 72, *Fair Value Measurement and Application*. Funds invested in COLOTRUST, a local government investment pool (Note 2), are measured at net asset value, which approximates fair value.

#### ***Prepaid Items***

Certain payments to vendors reflect costs applicable to future accounting periods and are recorded as prepaid items in the financial statements.

#### ***Receivables and Allowance for Doubtful Accounts***

The District's receivables are due from commercial and residential customers within the District service area. The District's policy for collections is limited to the right to discontinue service and to place liens on property. The District has determined that no allowance is necessary at December 31, 2020 or 2019, based on historical collection experience.

# Central Weld County Water District

## Notes to Financial Statements

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### ***Revenue Recognition***

Revenues are recognized when earned. Metered water accounts are read and billed monthly on 30 day cycles. At December 31, 2020 and 2019, there was no unbilled revenue.

### ***Operating Revenues and Expenses***

The District distinguishes between operating revenues and expenses and nonoperating items in the statements of revenues, expenses and changes in net position. Operating revenues and expenses generally result from providing services and producing and delivering goods in connection with the District's purpose of providing water services to its customers. Operating revenues consist of charges to customers for the delivery of water. Operating expenses include the cost of service, administrative expenses, and depreciation expense. All revenues and expenses not meeting these definitions are reported as nonoperating revenues and expenses or capital contributions.

### ***Inventories***

Inventories, consisting primarily of operating supplies for water meter repair and installation, have been valued at cost, using the first-in first-out method.

### ***Capital Assets***

Capital assets purchased or acquired with an original cost of \$5,000 or more and an estimated useful life of more than one year are capitalized using historical cost. Expenditures for maintenance and repairs are charged to operations as incurred. Property replacements and improvements, which extend the lives of assets, are capitalized and subsequently depreciated. Contributed assets are reported at their fair market value at the date received. The District has not capitalized any interest during 2020 or 2019.

Depreciation of capital assets is charged as an expense against operations. Depreciation has been provided over the estimated useful lives using the straight-line method. The estimated useful lives are as follows:

Description	Estimated Lives
Transmission and distribution system	10-50 years
Facilities	20-40 years
Vehicles and field equipment	5-10 years
Office equipment	5-10 years

### ***Joint Venture***

The District is a participant with the Little Thompson Water District ("LTWD") in a joint venture to operate Carter Lake Filter Plant (the "Plant"), the filter plant from which the District and LTWD purchase 100% of their water (Note 4). The Plant is governed by a six-member board of directors composed of three appointees from the District and three from LTWD. The District and LTWD are each charged for their respective share of the water purchased from the Plant and may be assessed for capital improvements made at the Plant on a periodic basis. Beginning in 2008, the District and LTWD revised the joint venture agreement in order to change the way that major improvements to the Plant are funded. Major capital improvements to the Plant are no longer funded by the Plant, with assessments issued to each district; but rather, they are funded by the individual districts independently and included in each of the district's capital assets. As such, the depreciation expense for these assets has also been reflected in the financial statements of the District and LTWD.

## Central Weld County Water District

### Notes to Financial Statements

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The District's net investment and its share of the operating results of the Plant are reported in the accompanying statements of net position, and revenues, expenses and changes in net position. Complete financial statements for the Plant may be obtained from the Plant's administrative office at 7100 W. County Road 8-E, Berthoud, Colorado 80521.

#### ***Debt Issuance Costs***

Debt issuance costs are recognized as an expense during the period of issuance.

#### ***Accrued Compensated Absences***

Obligations associated with the District's vacation policy are recorded as a liability and expense when earned to the extent that such benefits vest to the employee. The amount of the accrued and unpaid balance under this policy is considered a long-term liability. The District has recorded a liability of \$70,741 and \$54,563 at December 31, 2020 and 2019, respectively.

#### ***Contributions in Aid of Construction***

Contributions of cash, transmission lines, and water rights to the District by developers, customers or by agreements with others are treated as capital contributions on the District's statements of revenues, expenses and changes in net position.

#### ***Net Position***

Net position is classified in the following categories:

***Net Investment in Capital Assets*** - This category groups all capital assets, including infrastructure, into one component of net position. Accumulated depreciation and the outstanding balances of debt that are attributable to the acquisition, construction or improvement of these assets reduce this category.

***Restricted Net Position*** - This category presents external restrictions imposed by creditors, grantors, contributors or laws or regulations of other governments and restrictions imposed by law through constitutional provisions or enabling legislation.

***Unrestricted Net Position*** - This category represents the net position of the District, which is not restricted for any project or other purpose. A deficit will require future funding.

When both restricted and unrestricted resources are available for use, it is the District's policy to use restricted resources first, then unrestricted resources as they are needed.

#### ***Use of Estimates***

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets, deferred outflows of resources, liabilities, and deferred inflows of resources and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

**Central Weld County Water District**  
**Notes to Financial Statements**

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**2. Cash and Investments**

*Deposits*

Colorado state statutes govern the entity's deposits of cash. For deposits in excess of federally insured limits, Colorado Revised Statutes require the depository institution to maintain collateral on deposits with an official custodian (as authorized by the State Banking Board). The Colorado Public Deposit Protection Act ("PDPA") requires state regulators to certify eligible depositories for public deposit. PDPA requires the eligible depositories with public deposits in excess of the amounts insured by the Federal Deposit Insurance Corporation ("FDIC") to create a single institutional collateral pool of obligations of the State of Colorado or local Colorado governments and obligations secured by first lien mortgages on real property located in the State. The pool is to be maintained by another institution or held in trust for all uninsured public deposits as a group. The market value of the assets in the pool must be at least 102% of the uninsured public deposits. At December 31, 2020 and 2019, the District had deposits with a financial institution with a carrying amount of \$2,073,118 and \$494,377, respectively. The bank balances with the financial institution were \$2,097,874 and \$694,502, respectively. Of these amounts, \$250,000 was covered by federal depository insurance. The remaining balances of \$1,847,874 and \$444,502, respectively, were collateralized with securities held by the financial institutions' agent, but not in the District's name.

Cash and cash equivalents held by the District at December 31 were as follows:

	2020	2019
Cash on hand	\$ 410	\$ 410
Bank deposits	2,073,118	494,377
Local government investment pool	78,804,588	22,590,607
	<b>\$ 80,878,116</b>	<b>\$ 23,085,394</b>

Cash and cash equivalents balances are reflected on the statement of net position at December 31, 2020 and 2019, as follows:

	2020	2019
Cash and cash equivalents	23,874,891	23,085,394
Restricted cash and cash equivalents	57,003,225	-
Total	<b>\$ 80,878,116</b>	<b>\$ 23,085,394</b>

*Investments*

Colorado statutes specify investment instruments meeting defined rating and risk criteria in which special districts may invest, which include:

- Certificates of deposit with an original maturity in excess of three months
- Certain obligations of the United States and U.S. Government agency securities
- Certain international agency securities
- General obligation and revenue bonds of U.S. local government entities
- Banker's acceptance of certain banks
- Commercial paper
- Written repurchase agreements collateralized by certain authorized securities
- Certain money market funds
- Guaranteed investment contracts
- Local government investment pools



**Central Weld County Water District**  
**Notes to Financial Statements**

District policy is to hold investments until maturity.

The District categorizes its fair value measurement within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; Level 3 inputs are significant unobservable inputs.

At December 31, 2020, assets measured at fair value on a recurring basis have been categorized into the hierarchy as follows:

Description	Assets at fair value as of December 31, 2020			Total
	Level 1	Level 2	Level 3	
Certificates of deposit	\$ -	\$ 495,000	\$ -	\$ 495,000
	\$ -	\$ 495,000	\$ -	\$ 495,000

At December 31, 2019, assets measured at fair value on a recurring basis have been categorized into the hierarchy as follows:

Description	Assets at fair value as of December 31, 2019			Total
	Level 1	Level 2	Level 3	
Certificates of deposit	\$ -	\$ 495,000	\$ -	\$ 495,000
	\$ -	\$ 495,000	\$ -	\$ 495,000

***Custodial Credit Risk - Investments***

For investments, custodial credit risk is the risk that in the event of a failure of a counter party, the District would not be able to recover the value of its investments or collateral securities that are in the possession of an outside party. The District does not have a specific policy for custodial credit risk. As of December 31, 2020 and 2019, the District had no investments exposed to custodial credit risk outside of its investment in the Colorado Local Government Liquid Asset Trust (the "Trust"), discussed below.

***Interest Rate Risk***

The District does not have a formal written investment policy that limits investment maturities as a means of managing its exposure to fair value losses arising from increasing interest rates; however, the District adheres to state statutes. Colorado state statutes prohibit investments with maturities in excess of five years.

***Local Government Investment Pools***

At December 31, 2019 and 2018, the District had invested \$78,804,588 and \$22,590,607, respectively, in the Colorado Local Government Liquid Asset Trust (the "Trust"), an investment vehicle established for local government entities in Colorado to pool surplus funds. The State Securities Commission administers and enforces all State statutes governing the Trust. The Trust operates similarly to a money market fund and each share is equal in value to \$1. The Trust offers shares in two portfolios, COLOTRUST PRIME and COLOTRUST PLUS+. COLOTRUST PRIME invests only in U.S. Treasury and government agencies. COLOTRUST PLUS+ can invest in U.S. Treasury, government agencies, and in the highest-rate commercial paper. A designated custodial bank serves as custodian for the Trust's portfolios pursuant to a custodian agreement. The custodian acts as a safekeeping agent for the Trust's investment portfolios and provides services as the depository in connection with direct investments and withdrawals. The custodian's internal records

**Central Weld County Water District**  
**Notes to Financial Statements**

segregate investments owned by the Trust. The Trust is rated AAAM by Standard and Poor's and is measured at net asset value. There are no unfunded commitments, the redemption frequency is daily and there is no redemption notice period.

**3. Restricted Assets**

Amounts shown as restricted cash and cash equivalents have been restricted by bond indentures to be used for specified purposes. The balance restricted as of December 31, 2020 and 2019, was \$57,003,225 and \$-, respectively.

**4. Capital Assets**

Capital asset activity for the year ended December 31, 2020, was as follows:

	Beginning Balance	Additions	Deletions	Ending Balance
<b>Capital assets, not being depreciated:</b>				
Land, easements, water rights and reservoir	\$ 41,041,413	\$ 3,944,600	\$ -	\$ 44,986,013
Construction in progress	14,644,592	2,656,861	(5,777,029)	11,524,424
<b>Total capital assets, not being depreciated</b>	<b>55,686,005</b>	<b>6,601,461</b>	<b>(5,777,029)</b>	<b>56,510,437</b>
<b>Capital assets, being depreciated:</b>				
Transmission and distribution system Facilities	92,819,811	8,022,378	(261,114)	100,581,075
Vehicles and field equipment	614,736	-	-	614,736
Office equipment	707,972	95,408	(121,770)	681,610
	300,383	-	(52,672)	247,711
<b>Total capital assets, being depreciated</b>	<b>94,442,902</b>	<b>8,117,786</b>	<b>(435,556)</b>	<b>102,125,132</b>
<b>Less accumulated depreciation for:</b>				
Transmission and distribution system Facilities	(27,833,624)	(2,081,139)	261,114	(29,653,649)
Vehicles and field equipment	(212,781)	(15,890)	-	(228,671)
Office equipment	(387,855)	(84,269)	121,770	(350,354)
	(220,092)	(18,295)	52,672	(185,715)
<b>Total accumulated depreciation</b>	<b>(28,654,352)</b>	<b>(2,199,593)</b>	<b>435,556</b>	<b>(30,418,389)</b>
<b>Total capital assets, being depreciated, net</b>	<b>65,788,550</b>	<b>5,918,193</b>	<b>-</b>	<b>71,706,743</b>
<b>Capital assets, net</b>	<b>\$ 121,474,555</b>	<b>\$ 12,519,654</b>	<b>\$(5,777,029)</b>	<b>\$ 128,217,180</b>

**Central Weld County Water District**  
**Notes to Financial Statements**

Capital asset activity for the year ended December 31, 2019, was as follows:

	Beginning Balance	Additions	Deletions	Ending Balance
<b>Capital assets, not being depreciated:</b>				
Land, easements, water rights and reservoir	\$ 37,645,418	\$ 3,900,195	\$ (504,200)	\$ 41,041,413
Construction in progress	10,712,483	3,932,109	-	14,644,592
<b>Total capital assets, not being depreciated</b>	<b>48,357,901</b>	<b>7,832,304</b>	<b>(504,200)</b>	<b>55,686,005</b>
<b>Capital assets, being depreciated:</b>				
Transmission and distribution system	94,139,291	1,435,508	(2,754,988)	92,819,811
Facilities	755,899	-	(141,163)	614,736
Vehicles and field equipment	900,218	210,000	(402,246)	707,972
Office equipment	361,027	-	(60,644)	300,383
<b>Total capital assets, being depreciated</b>	<b>96,156,435</b>	<b>1,645,508</b>	<b>(3,359,041)</b>	<b>94,442,902</b>
<b>Less accumulated depreciation for:</b>				
Transmission and distribution system	(28,654,833)	(1,925,915)	2,747,124	(27,833,624)
Facilities	(338,054)	(15,890)	141,163	(212,781)
Vehicles and field equipment	(681,131)	(108,970)	402,246	(387,855)
Office equipment	(257,174)	(23,562)	60,644	(220,092)
<b>Total accumulated depreciation</b>	<b>(29,931,192)</b>	<b>(2,074,337)</b>	<b>3,351,177</b>	<b>(28,654,352)</b>
<b>Total capital assets, being depreciated, net</b>	<b>66,225,243</b>	<b>(428,829)</b>	<b>(7,864)</b>	<b>65,788,550</b>
<b>Capital assets, net</b>	<b>\$ 114,583,144</b>	<b>\$ 7,403,475</b>	<b>\$ (512,064)</b>	<b>\$ 121,474,555</b>

## 5. Long-Term Debt

### 2020 Revenue Bonds

On December 1, 2020, the District issued Water Revenue Bonds, Series 2020, totaling \$47,020,000, to finance certain capital improvements to the System (the "Project"), and to pay the costs of issuing the Bonds including the costs related to bond insurance and surety bond premiums. Interest, with rates ranging from 2.0% to 5.0%, is payable semiannually through maturity in December 2040. The bonds are a special revenue obligation of the District, payable from rates, fees, standby charges, and charges from the use and operation of the system and from such other funds of the system legally available after the payment of operation and maintenance expenses of the system. There was no accrued interest on this debt as of December 31, 2020.

A summary of changes in the District's long-term debt as of December 31, 2020 and 2019, is as follows:

	Beginning Balance	Additions	Retirements	Ending Balance	Due Within One Year
2020 revenue bonds	\$ -	\$ 47,020,000	\$ -	\$ 47,020,000	\$ 1,445,000
Compensated Absences	54,563	42,718	(26,540)	70,741	-
<b>Total</b>	<b>\$ 54,563</b>	<b>\$ 47,062,718</b>	<b>\$ (26,540)</b>	<b>\$ 47,090,741</b>	<b>\$ 1,445,000</b>
Current portion of long term debt	-			1,445,000	
Net bond premiums	-	10,659,581	-	10,659,581	
<b>term debt</b>	<b>\$ 54,563</b>			<b>\$ 59,195,322</b>	

**Central Weld County Water District**  
**Notes to Financial Statements**

The annual requirements to amortize the debt outstanding as of December 31, 2020 are as follows:

Year Ending December 31,	Annual Maturities	Interest	Total Payment
2021	1,445,000	1,930,728	3,375,728
2022	1,575,000	1,936,600	3,511,600
2023	1,650,000	1,857,850	3,507,850
2024	1,735,000	1,775,350	3,510,350
2025	1,820,000	1,688,600	3,508,600
2026 - 2030	10,325,000	7,229,800	17,554,800
2031 - 2035	12,845,000	4,707,000	17,552,000
2036 - 2040	15,625,000	1,924,000	17,549,000
<b>Totals</b>	<b>47,020,000</b>	<b>23,049,928</b>	<b>70,069,928</b>

## 6. Rate Maintenance

The District's 2020 Revenue Bonds, require the District to establish, maintain, enforce, and collect rates, fees, plant investment fees, availability fees, tolls and charges for services furnished by or the use of the System to create Gross Revenue each Fiscal Year sufficient to pay Operation and Maintenance Expenses and to create Net Revenue in an amount equal to not less than 110% of the amount necessary to pay when due the principal of and interest on the Bonds and any Parity Lien Obligations coming due during such fiscal year.

As shown below, the District is in compliance with this requirement of the 2020 Water Revenue Bonds for the year ended December 31, 2020:

### Net revenue as defined in 2020 agreements

Operating revenues	\$ 6,938,049
Tap fees	6,703,000
Subtotal	13,641,049
Operating expenses (excluding depreciation expense)	(5,314,151)
<b>Net revenues as defined in 2020 bond agreement</b>	<b>8,326,898</b>

## 7. Joint Venture

The District is a 50 percent owner of the Plant and utilizes the equity method of accounting for its investment in the Plant. The District's share of the Plant's net position, shown in the following table, is reflected in the accompanying statements of net position under the caption "Investment in joint venture accounted for using the equity method."

Summary financial information of the Plant as of and for the years ended December 31, 2020 and 2019, are as follows:

**Central Weld County Water District**  
**Notes to Financial Statements**

	2020	2019
Current assets	\$ 914,133	\$ 927,084
Capital assets - net	5,919,462	6,174,872
<b>Total assets</b>	<b>\$ 6,833,595</b>	<b>\$ 7,101,956</b>
Current liabilities	\$ 301,893	\$ 308,369
Net position	6,531,702	6,793,587
<b>Total liabilities and net position</b>	<b>\$ 6,833,595</b>	<b>\$ 7,101,956</b>
Operating revenues	\$ 2,573,543	\$ 2,474,896
Operating expenses	(2,540,426)	(2,765,636)
Depreciation	(296,498)	(260,286)
Non-operating (expense) revenue	1,496	94,536
<b>Increase (decrease) in net position</b>	<b>\$ (261,885)</b>	<b>\$ (456,490)</b>

## 8. Risk Management

The District is exposed to various risks of loss related to torts; theft of, damage to, and destruction of assets; errors and omissions; injuries to employees; and natural disasters.

The District carries commercial insurance covering specific and general risks of loss, including worker's compensation and employee health and accident insurance. Settled claims resulting from these risks have not exceeded commercial insurance coverage in any of the past three fiscal years. There have been no significant reductions in insurance coverage.

## 9. TABOR Compliance

In November 1992, Colorado voters passed an amendment (the "Amendment" or "TABOR") to the State Constitution (Article X, Section 20), which limits the revenue raising and spending abilities of state and local governments. The limits on property taxes, revenue, and "fiscal year spending" include allowable annual increases tied to inflation and local growth in construction valuation. Fiscal year spending, as defined by the Amendment, excludes spending from certain revenue and financing sources such as federal funds, gifts, property sales, fund transfers, damage awards, and fund reserves (balances). The Amendment requires voter approval for any increase in mill levy or tax rates, new taxes, or creation of multi-year debt. Revenue earned in excess of the "spending limit" must be refunded or approved to be retained by the District under specified voting requirements by the entire electorate.

The Amendment also requires local governments to establish emergency reserves to be used for declared emergencies only. Emergencies, as defined by the amendment, exclude economic conditions, revenue shortfalls, or salary or fringe benefit increases. These reserves are required to be 3% or more of fiscal year spending (excluding bonded debt service). The District is an enterprise fund and has no TABOR revenues, and therefore, has not set aside any monies for emergencies as defined by TABOR.

The District believes it is in compliance with the provisions of TABOR. However, TABOR is complex and subject to interpretation. Many of its provisions will require judicial interpretation.

# Central Weld County Water District

## Notes to Financial Statements

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### 10. Deferred Compensation Pension Plan

The District offers its employees a deferred compensation plan created in accordance with Internal Revenue Code Section 457 (the "Plan"). The Plan, available to all District employees, permits them to defer a portion of their salary until future years. The District matches up to 6% of eligible salary. The deferred compensation is not available to employees until termination, retirement, death, or unforeseeable emergency. For the years ended December 31, 2020 and 2019, the District contributed \$36,658 and \$33,721, respectively.

The Plan complies with Section 457 of the Internal Revenue Code, whereby, trust provisions are incorporated so that plan assets are held in a trust for the exclusive benefit of participants and their beneficiaries. As a result, as of December 31, 2020 and 2019, the assets and liabilities of the deferred compensation plan are not included in the accompanying financial statements.

### 11. Commitments and Contingencies

#### *Litigation*

The District is subject to various claims and legal proceedings that arise in the ordinary course of business. The District believes that adequate insurance coverage exists in situations where monetary damages are claimed and that the final settlements of these matters will not materially affect the financial statements of the District.

### 12. Northern Integrated Supply Project

The District has entered into an agreement with the Northern Colorado Water Conservancy District ("NCWCD"), acting by and through its Northern Integrated Supply Project ("NISP") Water Activity Enterprise. NISP is a collaborative effort between NCWCD and 15 northern Front Range municipalities and water districts to increase the water quantity and reliability of their water supplies. As of December 31, 2020, the District has paid \$6,088,162 to enter this project, which has been classified as construction in progress.

### 13. COVID-19 and CARES Act

On January 30, 2020, the World Health Organization ("WHO") announced a global health emergency because of a new strain of coronavirus (the COVID-19 outbreak) and the risks to the international community as the virus spreads globally beyond its point of origin. In March 2020, the WHO classified the COVID-19 outbreak as a pandemic, based on the rapid increase in exposure globally. The full impact of the COVID-19 outbreak continues to evolve as of the date of this report. As such, it is uncertain as to the full magnitude that the pandemic will have on the District's financial condition, liquidity, and future results of operations. Management is actively monitoring the global situation on its financial condition, liquidity, operations, suppliers, industry, and workforce.

Given the daily evolution of the COVID-19 outbreak and the global responses to curb its spread, the District is not able to estimate the effects of the COVID-19 outbreak on its results of operations, financial condition, or liquidity for fiscal year 2021.

On March 27, 2020, the "Coronavirus Aid, Relief, and Economic Security ("CARES") Act" was Signed into law. The Cares Act, among other things, includes provisions relating to refundable payroll tax credits, deferment of employer side social security payments, net operating loss carryback periods, alternative minimum tax credit refunds, modifications to the net interest deduction limitations on qualified charitable contributions, and technical corrections to tax depreciation methods for qualified improvement property.

**Central Weld County Water District**  
**Notes to Financial Statements**

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The District continues to examine the impact that the CARES Act may have on the business. The CARES Act had minimal impact on the District for the Year ended December 31, 2020.

**14. Subsequent Events**

The District evaluated subsequent events through June XX, 2021 the date these financial statements were available to be issued. There were no other material subsequent events that required recognition or additional disclosure.

DRAFT

Supplementary Information

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DRAFT



**Central Weld County Water District**  
**Schedule of Revenues and Expenditures - Budget and Actual (Budgetary Basis)**  
**For the Year Ended December 31, 2020**  
**With Comparative Actual Amounts for the Year Ended December 31, 2019**

	2020		Actual Amounts Budget Basis	Variance with Final Budget Positive (Negative)	2019
	Budgeted Amounts				Actual
	Original	Final			
<b>Revenues</b>					
<b>Operating revenues:</b>					
Water sales - treated	\$ 5,867,000	\$ 5,867,000	\$ 6,817,427	\$ 950,427	\$ 5,609,995
Other income	258,000	258,000	120,622	(137,378)	546,328
<b>Total operating revenues</b>	<b>6,125,000</b>	<b>6,125,000</b>	<b>6,938,049</b>	<b>813,049</b>	<b>6,156,323</b>
<b>Non-operating revenue:</b>					
Earnings on investments and interest income	475,000	475,000	166,351	(308,649)	531,531
Loss on disposal of assets	-	-	-	-	(7,864)
<b>Total non-operating revenue</b>	<b>475,000</b>	<b>475,000</b>	<b>166,351</b>	<b>(308,649)</b>	<b>523,667</b>
<b>Contributions:</b>					
Capital contributions	6,000,000	6,000,000	7,505,260	1,505,260	10,146,587
Line extensions	500,000	500,000	215,611	(284,389)	-
<b>Total contributions</b>	<b>6,500,000</b>	<b>6,500,000</b>	<b>7,720,871</b>	<b>1,220,871</b>	<b>10,146,587</b>
<b>Total revenues</b>	<b>13,100,000</b>	<b>13,100,000</b>	<b>14,825,271</b>	<b>1,725,271</b>	<b>16,826,577</b>
<b>Expenditures</b>					
<b>Administrative:</b>					
Salaries	865,000	865,000	945,576	(80,576)	845,939
Insurance	275,000	275,000	356,310	(81,310)	289,048
Professional fees	300,000	300,000	178,099	121,901	222,021
Office expenses and supplies	300,000	300,000	264,025	35,975	255,311
Payroll taxes	67,000	67,000	76,245	(9,245)	70,308
Deferred compensation	-	-	36,658	(36,658)	33,721
Directors' fees and board meetings	6,500	6,500	5,804	696	7,248
<b>Total administrative</b>	<b>1,813,500</b>	<b>1,813,500</b>	<b>1,862,717</b>	<b>(49,217)</b>	<b>1,723,596</b>
<b>Distribution system:</b>					
Depreciation	2,010,000	2,010,000	2,199,593	(189,593)	2,074,337
System maintenance	1,000,000	1,000,000	1,177,959	(177,959)	798,136
Water treatment charges	1,325,000	1,325,000	1,484,364	(159,364)	1,300,422
Water assessments	320,000	320,000	606,687	(286,687)	212,609
Automotive	75,000	75,000	58,955	16,045	66,318
Office and field utilities	50,000	50,000	60,913	(10,913)	54,327
Dry Creek Reservoir operating costs	75,000	75,000	43,988	31,012	71,176

(Continued).

**Central Weld County Water District**  
**Schedule of Revenues and Expenditures - Budget and Actual (Budgetary Basis)**  
**For the Year Ended December 31, 2020**  
**With Comparative Actual Amounts for the Year Ended December 31, 2019**

	2020		Actual Amounts Budget Basis	Variance with Final Budget Positive (Negative)	2019
	Budgeted Amounts				Actual
	Original	Final			
Water samples	-	-	10,588	(10,588)	7,502
Water rental	100,000	100,000	-	100,000	-
Office and warehouse maintenance	-	-	7,980	(7,980)	1,389
<b>Total distribution system</b>	<b>4,955,000</b>	<b>4,955,000</b>	<b>5,651,027</b>	<b>(696,027)</b>	<b>4,586,216</b>
<b>Debt service:</b>					
Debt issuance costs	-	-	469,148	(469,148)	-
<b>Total debt service</b>	<b>-</b>	<b>-</b>	<b>469,148</b>	<b>(469,148)</b>	<b>-</b>
<b>Capital improvements:</b>					
Distribution system	5,349,000	5,349,000	4,902,210	446,790	5,367,617
Land, easements and water rights	1,005,000	3,981,355	3,944,600	36,755	3,900,195
Office and field equipment	50,000	50,000	95,408	(45,408)	210,000
Filter plant and Dry Creek Reservoir	52,000	52,000	-	52,000	-
<b>Total capital improvements</b>	<b>6,456,000</b>	<b>9,432,355</b>	<b>8,942,218</b>	<b>490,137</b>	<b>9,477,812</b>
<b>Reserves</b>	<b>825,000</b>	<b>825,000</b>	<b>-</b>	<b>825,000</b>	<b>-</b>
<b>Total expenditures</b>	<b>14,049,500</b>	<b>17,025,855</b>	<b>16,925,110</b>	<b>100,745</b>	<b>15,787,624</b>
Excess (deficiency) of revenues over expenses	<u>\$ (949,500)</u>	<u>\$ (3,925,855)</u>	(2,099,839)	<u>\$ 1,826,016</u>	1,038,953
<b>Reconciling items - GAAP basis</b>					
Capital improvements			8,942,218		9,477,812
Equity income (loss) - share of joint venture income (loss)			(130,943)		(228,245)
<b>Change in net position - GAAP basis</b>			<u>\$ 6,711,436</u>		<u>\$ 10,288,520</u>

*See accompanying Independent Auditor's Report.*

**RATES and SURCHARGES**

Item No. 7C

July 15, 2021

**BACKGROUND SUMMARY:**

Pursuant to Section §32-1-1001(2)(a), C.R.S., a Public Hearing will be required to provide an opportunity for interested customers and concerned citizens to provide any input about a proposed rate increase for the Monthly Detailed Rate Schedule for all customers and municipalities subject to District Rules and Regulations. The District reserves the right at any time to change the rates and fees of the District as allowed by law through a public rate hearing. Rate increase notifications will need posted on the District's website and in the newspaper if an increase greater than previously posted and approved will need to go into effect pursuant to this statute. Justification of a rate increase, other than for what has previously been approved, must be done either through an internal evaluation or with the assistance of an outside rate consultant, accountant, rate expert, etc. retained by the District.

**Surcharge Summary:**

Year	# of Customers Exceeding Allotment	Total Surcharge Amount Charged	Gallons Over Allotment	Shares Needed Acre Feet
2021				
2020	501	\$1,533,350	381,049,000	1169
2019	350	\$1,157,517	370,092,000	1141
2018	389	\$901,120	450,550,000	1382
2017	353	\$404,422	404,084,000	1239

Currently, annual increases to the base rate and tier rate will be 4% annually until 2029.

Currently, the Surcharge rates are as follow:

Eff. Date:	Tap Surcharges	Budget Tap Surcharges	Quarter Tap Surcharges
prior yrs	\$0.18	\$0.00	N/A
11/1/2016	\$1.00	\$10.00	N/A
11/1/2017	\$2.00	\$11.00	N/A
11/1/2018	\$3.00	\$12.00	N/A
11/1/2019	\$4.00	\$13.00	\$25.00
11/1/2020	\$5.00	\$14.00	\$26.00

**BOARD ACTION:**

Decide, as appropriate by the Board, if additional increases need to be justified prior to October 2021 to allow proper notification for a public rate hearing in August 2021.

**SUBMITTED BY: Stan Linker**

**7C**

**EXECUTIVE SESSION**

Item No. 7D

July 15, 2021

**BACKGROUND SUMMARY:**

Motion to go into Executive Session regarding §24-6-402(4)(a), C.R.S. concerning the purchase, acquisition, lease, transfer, or sale of any real, personal, or other property interest.

**BOARD ACTION:**

Information Only.

**SUBMITTED BY: Stan Linker**

**7D**

**BACKGROUND SUMMARY:**

1. The District is purchasing 10 shares of CBT water for \$600,000 or \$60,000 per share. The NCWCD contract will need to be approved to then be approved by NCWCD in September.
2. The District is purchasing 15 shares of CBT water for \$900,000 or \$60,000 per share. The NCWCD contract will need to be approved to then by approved by NCWCD in September.
3. The District is purchasing 19 shares of CBT water for \$1,111,500 or \$58,500 per share. The NCWCD contract will need to be approved to then by approved by NCWCD in September

**BOARD ACTION SUGGESTED:**

- 1) Approve the Corporate Contracts.
- 2) Certify the Base Water Supply Affidavit forms.
- 3) Approve the Base Water Supply Affidavit Class BC forms.

**Application To**  
**NORTHERN COLORADO WATER CONSERVANCY DISTRICT**  
**For**  
**WATER ALLOTMENT CONTRACT**  
 (Corporate Form)

Applicant, **Central Weld County Water District** a Corporation, organized in the State of Colorado and authorized to do business in the State of Colorado, hereby applies to Northern Colorado Water Conservancy District (Northern Water), a political subdivision of the State of Colorado, organized and existing by virtue of Article 45, Title 37, Colorado Revised Statutes, 1973 for an allotment contract for beneficial use of water under the following terms and conditions:

1. The quantity of water herein requested by Applicant for annual application to a beneficial use is **10** acre-feet to be used so long as the Applicant fully complies with all of the terms, conditions, and obligations hereinafter set forth.
2. It is understood and agreed by the Applicant that any water allotted by the Board of Directors of Northern Water shall be for domestic, irrigation, or industrial use within or through facilities or upon lands owned, operated, or served by said Applicant, provided however, that all lands, facilities, and serviced areas which receive benefit from the allotment (whether water service is provided by direct delivery, by exchange, or otherwise) shall be situated within the boundaries of Northern Water.
3. Applicant agrees that an acre-foot of water as referred to herein is defined as being one-three-hundred-ten thousandth (1/310,000) of the quantity of water annually declared by the Board of Directors of Northern Water to be available for delivery from the water supplies of Northern Water. Applicant agrees that such water shall be delivered from the works of Northern Water at such existing Northern Water delivery point or points as may be specified by the Applicant and that the water delivery obligation of Northern Water shall terminate upon release of water from said works. Further, the Applicant agrees that on November 1 of each year, any water undelivered from the annual quantity made available to the Applicant shall revert to the water supplies of Northern Water.
4. Applicant agrees to pay annually for the amount of water herein allotted by the Board of Directors of Northern Water for use within such class of water service as said Board may annually determine to be applicable and at a price per acre-foot to be fixed annually by said Board; and, further, agrees that the initial annual payment shall be made, in full, within fifteen (15) days after the date of a notice from Northern Water that the initial payment is due hereunder. Said notice will advise the Applicant, among other things, of the water delivery year to which the initial payment shall apply and the price per acre-foot which is applicable to that year. Annual payments for each year thereafter shall be made by the Applicant on or before each March 1. If annual payment, as herein provided, is not made by due date, written notice thereof will be given by Northern Water to the Applicant at the following designated address:

**2235 2<sup>nd</sup> Ave. Greeley, CO 80631**

If payment is not made within ten (10) days after the date of said written notice, Applicant shall have no further right, title, or interest under this contract; and the allotment of water, as herein made, shall be transferred, leased, or otherwise disposed of at the discretion of the Board of Directors of Northern Water.

5. As security to Northern Water, the Applicant agrees that the foregoing covenant of annual payments in advance of water delivery will be fully met by annual budget and appropriation of funds from such sources of revenues as may be legally available to said Applicant.
6. Applicant agrees that the water allotment shall be beneficially used for the purposes and in the manner specified herein, and that this agreement is made for the exclusive benefit of the Applicant and shall not inure

to the benefit of any successors, assigns, or lessees of said Applicant without prior specific approval of the Board of Directors of Northern Water.

- 7. Applicant agrees to be bound by the provisions of the Water Conservancy Act of Colorado; by the Rules, Regulations, and Policies of the Board of Directors of Northern Water; and by the repayment contract of July 5, 1938, between said Northern Water and the United States and all amendments thereof and supplements thereto.
- 8. Applicant agrees, as condition of this contract, to enter into an "Operating Agreement" with Northern Water if and when the Board of said Northern Water finds and determines that such an agreement is required by reason of additional or special services requested by the Applicant and provided by Northern Water or by reason of the delivery or use of water by the Applicant for more than one of the classes of service which are defined in the Rules, Regulations, and Policies of the Board of Directors of said Northern Water. Said agreement may contain, but not be limited to, provision for water delivery at times or by means not provided within the terms of standard allotment contracts of Northern Water; additional annual monetary consideration for extension of Northern Water delivery services and for additional administration, operation and maintenance costs; or for other costs to Northern Water which may arise through services made available to the Applicant.
- 9. Applicant attaches hereto a true and correct copy of the Applicant's records authorizing the officers, whose names appear hereon, to make this application.
- 10.

**CENTRAL WELD COUNTY WATER DISTRICT**

(Name of Applicant)

ATTEST:

By: \_\_\_\_\_

James W. Park

\_\_\_\_\_

Stan Linker

\_\_\_\_\_

President

\_\_\_\_\_

District Manager

SEAL

**ORDER ON APPLICATION**

Application having been made by or on behalf of all parties interested in the water allotment and after a Hearing by the Board, it is hereby ORDERED that the above application be granted and an allotment contract for 10 acre-feet of water is hereby made to **Central Weld County Water District** for the beneficial uses set forth in said application upon the terms, conditions, and manner of payment as therein specified.

**NORTHERN COLORADO WATER CONSERVANCY DISTRICT**

By \_\_\_\_\_

President

I hereby certify that the above Order was entered by the Director of Northern Colorado Water Conservancy District on the \_\_\_\_\_ day of \_\_\_\_\_, A. D. \_\_\_\_\_.

ATTEST: \_\_\_\_\_

Secretary

**NORTHERN COLORADO WATER CONSERVANCY DISTRICT**  
**AFFIDAVIT OF VERIFICATION OF BASE WATER SUPPLY**  
 Domestic, Industrial, and Irrigation Water Suppliers  
 (Class B Contract and Class C Contract)

State of Colorado            )  
   ) ss.  
 County of Weld                )

I, Stan Linker, hereby swear and affirm under oath;

1. The Central Weld County Water District, a governing body of a water activity enterprise (“Applicant”), has applied for a new allotment contract for **10 units** of water from the Colorado-Big Thompson (C-BT) Project (the “Allotment Contract”), which can only be obtained by approval of the Board of Directors of the Northern Colorado Water Conservancy District (Northern Water).
2. I am the District Manager of the Applicant.
3. In conjunction with the application for the Allotment Contract, I warrant and represent to Northern Water that the base water supplies currently owned, or permanently controlled, by the Applicant are as follows:

<u>Name</u>	<u>Amount Owned Shares or Acre Feet</u>	<u>Average Yield</u>	<u>Firm Yield</u>
<u>CBT</u>	<u>6234</u>	<u>          </u>	<u>          </u>
<u>Windy Gap</u>	<u>1</u>	<u>          </u>	<u>          </u>
<u>Greeley/Loveland</u>	<u>1/3</u>	<u>          </u>	<u>          </u>
<u>                                  </u>	<u>                                  </u>	<u>                                  </u>	<u>                                  </u>
<u>                                  </u>	<u>                                  </u>	<u>                                  </u>	<u>                                  </u>
<u>                                  </u>	<u>                                  </u>	<u>                                  </u>	<u>                                  </u>
<u>                                  </u>	<u>                                  </u>	<u>                                  </u>	<u>                                  </u>
<u>                                  </u>	<u>                                  </u>	<u>                                  </u>	<u>                                  </u>
<u>                                  </u>	<u>                                  </u>	<u>                                  </u>	<u>                                  </u>
<u>                                  </u>	<u>                                  </u>	<u>                                  </u>	<u>                                  </u>
<u>                                  </u>	<u>                                  </u>	<u>                                  </u>	<u>                                  </u>
<u>                                  </u>	<u>                                  </u>	<u>                                  </u>	<u>                                  </u>
<u>                                  </u>	<u>                                  </u>	<u>                                  </u>	<u>                                  </u>

4. The water and water rights described in paragraph 3 above are owned or permanently controlled by the Applicant.
5. I understand that the Board of Directors of Northern Water will rely upon the statements made by me in this Affidavit in considering this application for the Allotment Contract,



and that such statements are subject to the provisions of C.R.S. § 18-8-503 which provides that a person commits perjury in the second degree if, with an intent to mislead a public servant in the performance of his or her duty, that person makes a materially false statement, which that person does not believe to be true, under oath required or authorized by law.

6. I understand that the approval of the Board of Directors of Northern Water of the application for the Allotment Contract may be rescinded if it is determined that one or more of my statements herein are materially false.

\_\_\_\_\_  
Stan Linker, District Manager

Sworn and affirmed under oath by Stan Linker, District Manager for Central Weld County Water District on \_\_\_\_\_, 20 \_\_\_\_.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public

**AFFIDAVIT REGARDING BASE WATER SUPPLY**

State of Colorado            )  
  ) ss.  
County of \_\_\_\_\_)

With respect to the application of the **Central Weld County Water District** to change or modify an existing Colorado-Big Thompson (C-BT) Project water allotment contract, or for a new C-BT water allotment contract, the following statements are **true and correct** [*check box next to each statement*]:

***Statements 1 through 4 apply only if the water being transferred is to be used for irrigation purposes.***

- 1. The C-BT water is intended to be used for irrigation purposes and the lands on which the C-BT water will be used have an existing base water supply that is owned or permanently controlled by the applicant.
- 2. The C-BT water is intended to be used for irrigation purposes and the lands on which the C-BT water will be used have a history of irrigation with a base water supply.
- 3. The C-BT water is intended to be used for irrigation purposes on lands that have historically been irrigated with a base water supply and none of the base water supply associated with those lands, that was not rented or leased, has been sold or permanently transferred for use outside the boundaries of the Northern Colorado Water Conservancy District (District) after February 14, 1997.
- 4. The C-BT water is intended to be used for irrigation purposes on lands that have historically been irrigated with a base water supply and not more than 50% of the base water supply that was owned or permanently controlled and beneficially used on those lands has been sold or permanently transferred for use on other lands or for other purposes after February 14, 1997.

***Statements 5 and 6 apply only if the water being transferred is to be used for purposes other than irrigation.***

- 5. The C-BT water is intended to be used for non-irrigation purposes and none of the historic base water supply of the applicant, that was not rented or leased, has been sold or permanently transferred for use outside the boundaries of the District after February 14, 1997.
- 6. The C-BT water is intended to be used for non-irrigation purposes and not more than 50% of the base water supply that was owned or permanently controlled and beneficially used by the applicant has been sold or permanently transferred for other purposes after February 14, 1997.

For purposes of the above statements, base water supply is defined as any permanent water supply other than water supplies yielded from the C-BT Project.

\_\_\_\_\_  
[Signature]

\_\_\_\_\_  
[Signature]

\_\_\_\_\_  
[Signature]

*NOTE: Signatures must be acknowledged in space provided below.*

Subscribed and sworn to before me by \_\_\_\_\_  
\_\_\_\_\_

on \_\_\_\_\_, \_\_\_\_\_.

My commission expires: \_\_\_\_\_

(Seal)

\_\_\_\_\_  
Notary Public

Subscribed and sworn to before me by \_\_\_\_\_  
\_\_\_\_\_

on \_\_\_\_\_, \_\_\_\_\_.

My commission expires: \_\_\_\_\_

(Seal)

\_\_\_\_\_  
Notary Public

Subscribed and sworn to before me by \_\_\_\_\_  
\_\_\_\_\_

on \_\_\_\_\_, \_\_\_\_\_.

My commission expires: \_\_\_\_\_

(Seal)

\_\_\_\_\_  
Notary Public

**Application To**  
**NORTHERN COLORADO WATER CONSERVANCY DISTRICT**  
**For**  
**WATER ALLOTMENT CONTRACT**  
(Corporate Form)

Applicant, **Central Weld County Water District** a Corporation, organized in the State of Colorado and authorized to do business in the State of Colorado, hereby applies to Northern Colorado Water Conservancy District (Northern Water), a political subdivision of the State of Colorado, organized and existing by virtue of Article 45, Title 37, Colorado Revised Statutes, 1973 for an allotment contract for beneficial use of water under the following terms and conditions:

1. The quantity of water herein requested by Applicant for annual application to a beneficial use is **15 acre-feet** to be used so long as the Applicant fully complies with all of the terms, conditions, and obligations hereinafter set forth.
2. It is understood and agreed by the Applicant that any water allotted by the Board of Directors of Northern Water shall be for domestic, irrigation, or industrial use within or through facilities or upon lands owned, operated, or served by said Applicant, provided however, that all lands, facilities, and serviced areas which receive benefit from the allotment (whether water service is provided by direct delivery, by exchange, or otherwise) shall be situated within the boundaries of Northern Water.
3. Applicant agrees that an acre-foot of water as referred to herein is defined as being one-three-hundred-ten thousandth (1/310,000) of the quantity of water annually declared by the Board of Directors of Northern Water to be available for delivery from the water supplies of Northern Water. Applicant agrees that such water shall be delivered from the works of Northern Water at such existing Northern Water delivery point or points as may be specified by the Applicant and that the water delivery obligation of Northern Water shall terminate upon release of water from said works. Further, the Applicant agrees that on November 1 of each year, any water undelivered from the annual quantity made available to the Applicant shall revert to the water supplies of Northern Water.
4. Applicant agrees to pay annually for the amount of water herein allotted by the Board of Directors of Northern Water for use within such class of water service as said Board may annually determine to be applicable and at a price per acre-foot to be fixed annually by said Board; and, further, agrees that the initial annual payment shall be made, in full, within fifteen (15) days after the date of a notice from Northern Water that the initial payment is due hereunder. Said notice will advise the Applicant, among other things, of the water delivery year to which the initial payment shall apply and the price per acre-foot which is applicable to that year. Annual payments for each year thereafter shall be made by the Applicant on or before each March 1. If annual payment, as herein provided, is not made by due date, written notice thereof will be given by Northern Water to the Applicant at the following designated address:

**2235 2<sup>nd</sup> Ave. Greeley, CO 80631**

If payment is not made within ten (10) days after the date of said written notice, Applicant shall have no further right, title, or interest under this contract; and the allotment of water, as herein made, shall be transferred, leased, or otherwise disposed of at the discretion of the Board of Directors of Northern Water.

5. As security to Northern Water, the Applicant agrees that the foregoing covenant of annual payments in advance of water delivery will be fully met by annual budget and appropriation of funds from such sources of revenues as may be legally available to said Applicant.
6. Applicant agrees that the water allotment shall be beneficially used for the purposes and in the manner specified herein, and that this agreement is made for the exclusive benefit of the Applicant and shall not inure

to the benefit of any successors, assigns, or lessees of said Applicant without prior specific approval of the Board of Directors of Northern Water.

- 7. Applicant agrees to be bound by the provisions of the Water Conservancy Act of Colorado; by the Rules, Regulations, and Policies of the Board of Directors of Northern Water; and by the repayment contract of July 5, 1938, between said Northern Water and the United States and all amendments thereof and supplements thereto.
- 8. Applicant agrees, as condition of this contract, to enter into an "Operating Agreement" with Northern Water if and when the Board of said Northern Water finds and determines that such an agreement is required by reason of additional or special services requested by the Applicant and provided by Northern Water or by reason of the delivery or use of water by the Applicant for more than one of the classes of service which are defined in the Rules, Regulations, and Policies of the Board of Directors of said Northern Water. Said agreement may contain, but not be limited to, provision for water delivery at times or by means not provided within the terms of standard allotment contracts of Northern Water; additional annual monetary consideration for extension of Northern Water delivery services and for additional administration, operation and maintenance costs; or for other costs to Northern Water which may arise through services made available to the Applicant.
- 9. Applicant attaches hereto a true and correct copy of the Applicant's records authorizing the officers, whose names appear hereon, to make this application.
- 10.

**CENTRAL WELD COUNTY WATER DISTRICT**  
(Name of Applicant)

ATTEST:

By: \_\_\_\_\_  
James W. Park

\_\_\_\_\_  
Stan Linker  
\_\_\_\_\_  
District Manager

\_\_\_\_\_  
President

SEAL

**ORDER ON APPLICATION**

Application having been made by or on behalf of all parties interested in the water allotment and after a Hearing by the Board, it is hereby ORDERED that the above application be granted and an allotment contract for 15 acre-feet of water is hereby made to **Central Weld County Water District** for the beneficial uses set forth in said application upon the terms, conditions, and manner of payment as therein specified.

**NORTHERN COLORADO WATER CONSERVANCY DISTRICT**

By \_\_\_\_\_  
President

I hereby certify that the above Order was entered by the Director of Northern Colorado Water Conservancy District on the \_\_\_\_\_ day of \_\_\_\_\_, A. D. \_\_\_\_\_.

ATTEST: \_\_\_\_\_  
Secretary

**NORTHERN COLORADO WATER CONSERVANCY DISTRICT**  
**AFFIDAVIT OF VERIFICATION OF BASE WATER SUPPLY**  
 Domestic, Industrial, and Irrigation Water Suppliers  
 (Class B Contract and Class C Contract)

State of Colorado            )  
   ) ss.  
 County of Weld                )

I, Stan Linker, hereby swear and affirm under oath;

1. The Central Weld County Water District, a governing body of a water activity enterprise ("Applicant"), has applied for a new allotment contract for **15 units** of water from the Colorado-Big Thompson (C-BT) Project (the "Allotment Contract"), which can only be obtained by approval of the Board of Directors of the Northern Colorado Water Conservancy District (Northern Water).
2. I am the District Manager of the Applicant.
3. In conjunction with the application for the Allotment Contract, I warrant and represent to Northern Water that the base water supplies currently owned, or permanently controlled, by the Applicant are as follows:

<u>Name</u>	<u>Amount Owned Shares or Acre Feet</u>	<u>Average Yield</u>	<u>Firm Yield</u>
<u>CBT</u>	<u>6249</u>	<u>          </u>	<u>          </u>
<u>Windy Gap</u>	<u>1</u>	<u>          </u>	<u>          </u>
<u>Greeley/Loveland</u>	<u>1/3</u>	<u>          </u>	<u>          </u>
<u>                  </u>	<u>          </u>	<u>          </u>	<u>          </u>
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4. The water and water rights described in paragraph 3 above are owned or permanently controlled by the Applicant.
5. I understand that the Board of Directors of Northern Water will rely upon the statements made by me in this Affidavit in considering this application for the Allotment Contract,

and that such statements are subject to the provisions of C.R.S. § 18-8-503 which provides that a person commits perjury in the second degree if, with an intent to mislead a public servant in the performance of his or her duty, that person makes a materially false statement, which that person does not believe to be true, under oath required or authorized by law.

6. I understand that the approval of the Board of Directors of Northern Water of the application for the Allotment Contract may be rescinded if it is determined that one or more of my statements herein are materially false.

\_\_\_\_\_  
Stan Linker, District Manager

Sworn and affirmed under oath by Stan Linker, District Manager for Central Weld County Water District on \_\_\_\_\_, 20 \_\_\_\_.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public





\_\_\_\_\_  
[Signature]

\_\_\_\_\_  
[Signature]

\_\_\_\_\_  
[Signature]

*NOTE: Signatures must be acknowledged in space provided below.*

Subscribed and sworn to before me by \_\_\_\_\_  
\_\_\_\_\_

on \_\_\_\_\_, \_\_\_\_\_.

My commission expires: \_\_\_\_\_

(Seal)

\_\_\_\_\_  
Notary Public

Subscribed and sworn to before me by \_\_\_\_\_  
\_\_\_\_\_

on \_\_\_\_\_, \_\_\_\_\_.

My commission expires: \_\_\_\_\_

(Seal)

\_\_\_\_\_  
Notary Public

Subscribed and sworn to before me by \_\_\_\_\_  
\_\_\_\_\_

on \_\_\_\_\_, \_\_\_\_\_.

My commission expires: \_\_\_\_\_

(Seal)

\_\_\_\_\_  
Notary Public

**Application To**  
**NORTHERN COLORADO WATER CONSERVANCY DISTRICT**  
**For**  
**WATER ALLOTMENT CONTRACT**  
(Corporate Form)

Applicant, **Central Weld County Water District** a Corporation, organized in the State of Colorado and authorized to do business in the State of Colorado, hereby applies to Northern Colorado Water Conservancy District (Northern Water), a political subdivision of the State of Colorado, organized and existing by virtue of Article 45, Title 37, Colorado Revised Statutes, 1973 for an allotment contract for beneficial use of water under the following terms and conditions:

1. The quantity of water herein requested by Applicant for annual application to a beneficial use is **19** acre-feet to be used so long as the Applicant fully complies with all of the terms, conditions, and obligations hereinafter set forth.
2. It is understood and agreed by the Applicant that any water allotted by the Board of Directors of Northern Water shall be for domestic, irrigation, or industrial use within or through facilities or upon lands owned, operated, or served by said Applicant, provided however, that all lands, facilities, and serviced areas which receive benefit from the allotment (whether water service is provided by direct delivery, by exchange, or otherwise) shall be situated within the boundaries of Northern Water.
3. Applicant agrees that an acre-foot of water as referred to herein is defined as being one-three-hundred-ten thousandth (1/310,000) of the quantity of water annually declared by the Board of Directors of Northern Water to be available for delivery from the water supplies of Northern Water. Applicant agrees that such water shall be delivered from the works of Northern Water at such existing Northern Water delivery point or points as may be specified by the Applicant and that the water delivery obligation of Northern Water shall terminate upon release of water from said works. Further, the Applicant agrees that on November 1 of each year, any water undelivered from the annual quantity made available to the Applicant shall revert to the water supplies of Northern Water.
4. Applicant agrees to pay annually for the amount of water herein allotted by the Board of Directors of Northern Water for use within such class of water service as said Board may annually determine to be applicable and at a price per acre-foot to be fixed annually by said Board; and, further, agrees that the initial annual payment shall be made, in full, within fifteen (15) days after the date of a notice from Northern Water that the initial payment is due hereunder. Said notice will advise the Applicant, among other things, of the water delivery year to which the initial payment shall apply and the price per acre-foot which is applicable to that year. Annual payments for each year thereafter shall be made by the Applicant on or before each March 1. If annual payment, as herein provided, is not made by due date, written notice thereof will be given by Northern Water to the Applicant at the following designated address:  
**2235 2<sup>nd</sup> Ave. Greeley, CO 80631**

If payment is not made within ten (10) days after the date of said written notice, Applicant shall have no further right, title, or interest under this contract; and the allotment of water, as herein made, shall be transferred, leased, or otherwise disposed of at the discretion of the Board of Directors of Northern Water.

5. As security to Northern Water, the Applicant agrees that the foregoing covenant of annual payments in advance of water delivery will be fully met by annual budget and appropriation of funds from such sources of revenues as may be legally available to said Applicant.
6. Applicant agrees that the water allotment shall be beneficially used for the purposes and in the manner specified herein, and that this agreement is made for the exclusive benefit of the Applicant and shall not inure

to the benefit of any successors, assigns, or lessees of said Applicant without prior specific approval of the Board of Directors of Northern Water.

- 7. Applicant agrees to be bound by the provisions of the Water Conservancy Act of Colorado; by the Rules, Regulations, and Policies of the Board of Directors of Northern Water; and by the repayment contract of July 5, 1938, between said Northern Water and the United States and all amendments thereof and supplements thereto.
- 8. Applicant agrees, as condition of this contract, to enter into an "Operating Agreement" with Northern Water if and when the Board of said Northern Water finds and determines that such an agreement is required by reason of additional or special services requested by the Applicant and provided by Northern Water or by reason of the delivery or use of water by the Applicant for more than one of the classes of service which are defined in the Rules, Regulations, and Policies of the Board of Directors of said Northern Water. Said agreement may contain, but not be limited to, provision for water delivery at times or by means not provided within the terms of standard allotment contracts of Northern Water; additional annual monetary consideration for extension of Northern Water delivery services and for additional administration, operation and maintenance costs; or for other costs to Northern Water which may arise through services made available to the Applicant.
- 9. Applicant attaches hereto a true and correct copy of the Applicant's records authorizing the officers, whose names appear hereon, to make this application.
- 10.

**CENTRAL WELD COUNTY WATER DISTRICT**  
(Name of Applicant)

ATTEST:

By: \_\_\_\_\_  
James W. Park

\_\_\_\_\_  
Stan Linker  
District Manager

\_\_\_\_\_  
President

SEAL

**ORDER ON APPLICATION**

Application having been made by or on behalf of all parties interested in the water allotment and after a Hearing by the Board, it is hereby ORDERED that the above application be granted and an allotment contract for 19 acre-feet of water is hereby made to **Central Weld County Water District** for the beneficial uses set forth in said application upon the terms, conditions, and manner of payment as therein specified.

**NORTHERN COLORADO WATER CONSERVANCY DISTRICT**

By \_\_\_\_\_  
President

I hereby certify that the above Order was entered by the Director of Northern Colorado Water Conservancy District on the \_\_\_\_\_ day of \_\_\_\_\_, A. D. \_\_\_\_\_.

ATTEST: \_\_\_\_\_  
Secretary

**NORTHERN COLORADO WATER CONSERVANCY DISTRICT**  
**AFFIDAVIT OF VERIFICATION OF BASE WATER SUPPLY**  
 Domestic, Industrial, and Irrigation Water Suppliers  
 (Class B Contract and Class C Contract)

State of Colorado            )  
   ) ss.  
 County of Weld                )

I, Stan Linker, hereby swear and affirm under oath;

1. The Central Weld County Water District, a governing body of a water activity enterprise ("Applicant"), has applied for a new allotment contract for **19 units** of water from the Colorado-Big Thompson (C-BT) Project (the "Allotment Contract"), which can only be obtained by approval of the Board of Directors of the Northern Colorado Water Conservancy District (Northern Water).
2. I am the District Manager of the Applicant.
3. In conjunction with the application for the Allotment Contract, I warrant and represent to Northern Water that the base water supplies currently owned, or permanently controlled, by the Applicant are as follows:

<u>Name</u>	<u>Amount Owned Shares or Acre Feet</u>	<u>Average Yield</u>	<u>Firm Yield</u>
<u>CBT</u>	<u>6268</u>	<u>          </u>	<u>          </u>
<u>Windy Gap</u>	<u>1</u>	<u>          </u>	<u>          </u>
<u>Greeley/Loveland</u>	<u>1/3</u>	<u>          </u>	<u>          </u>
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4. The water and water rights described in paragraph 3 above are owned or permanently controlled by the Applicant.
5. I understand that the Board of Directors of Northern Water will rely upon the statements made by me in this Affidavit in considering this application for the Allotment Contract,

and that such statements are subject to the provisions of C.R.S. § 18-8-503 which provides that a person commits perjury in the second degree if, with an intent to mislead a public servant in the performance of his or her duty, that person makes a materially false statement, which that person does not believe to be true, under oath required or authorized by law.

6. I understand that the approval of the Board of Directors of Northern Water of the application for the Allotment Contract may be rescinded if it is determined that one or more of my statements herein are materially false.

\_\_\_\_\_  
Stan Linker, District Manager

Sworn and affirmed under oath by Stan Linker, District Manager for Central Weld County Water District on \_\_\_\_\_, 20 \_\_\_\_.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public

**AFFIDAVIT REGARDING BASE WATER SUPPLY**

State of Colorado            )  
  ) ss.  
County of \_\_\_\_\_)

With respect to the application of the **Central Weld County Water District** to change or modify an existing Colorado-Big Thompson (C-BT) Project water allotment contract, or for a new C-BT water allotment contract, the following statements are **true and correct** [*check box next to each statement*]:

***Statements 1 through 4 apply only if the water being transferred is to be used for irrigation purposes.***

- 1. The C-BT water is intended to be used for irrigation purposes and the lands on which the C-BT water will be used have an existing base water supply that is owned or permanently controlled by the applicant.
- 2. The C-BT water is intended to be used for irrigation purposes and the lands on which the C-BT water will be used have a history of irrigation with a base water supply.
- 3. The C-BT water is intended to be used for irrigation purposes on lands that have historically been irrigated with a base water supply and none of the base water supply associated with those lands, that was not rented or leased, has been sold or permanently transferred for use outside the boundaries of the Northern Colorado Water Conservancy District (District) after February 14, 1997.
- 4. The C-BT water is intended to be used for irrigation purposes on lands that have historically been irrigated with a base water supply and not more than 50% of the base water supply that was owned or permanently controlled and beneficially used on those lands has been sold or permanently transferred for use on other lands or for other purposes after February 14, 1997.

***Statements 5 and 6 apply only if the water being transferred is to be used for purposes other than irrigation.***

- 5. The C-BT water is intended to be used for non-irrigation purposes and none of the historic base water supply of the applicant, that was not rented or leased, has been sold or permanently transferred for use outside the boundaries of the District after February 14, 1997.
- 6. The C-BT water is intended to be used for non-irrigation purposes and not more than 50% of the base water supply that was owned or permanently controlled and beneficially used by the applicant has been sold or permanently transferred for other purposes after February 14, 1997.

For purposes of the above statements, base water supply is defined as any permanent water supply other than water supplies yielded from the C-BT Project.

\_\_\_\_\_  
[Signature]

\_\_\_\_\_  
[Signature]

\_\_\_\_\_  
[Signature]

*NOTE: Signatures must be acknowledged in space provided below.*

Subscribed and sworn to before me by \_\_\_\_\_  
\_\_\_\_\_

on \_\_\_\_\_, \_\_\_\_\_.

My commission expires: \_\_\_\_\_

(Seal)

\_\_\_\_\_  
Notary Public

Subscribed and sworn to before me by \_\_\_\_\_  
\_\_\_\_\_

on \_\_\_\_\_, \_\_\_\_\_.

My commission expires: \_\_\_\_\_

(Seal)

\_\_\_\_\_  
Notary Public

Subscribed and sworn to before me by \_\_\_\_\_  
\_\_\_\_\_

on \_\_\_\_\_, \_\_\_\_\_.

My commission expires: \_\_\_\_\_

(Seal)

\_\_\_\_\_  
Notary Public

**SEPTEMBER & OCTOBER BOARD MEETINGS**

Item No. 7F  
July 15, 2021

**BACKGROUND SUMMARY:**

The September and October Board meeting dates need to be modified due to the SDA Conference in Keystone and the date required for the proposed budget.

September was scheduled for September 16 and will need to be changed to the 23<sup>rd</sup> or 30<sup>th</sup> or cancelled.

If changed to the 23<sup>rd</sup> or 30<sup>th</sup>, the October board meeting can remain on October 21<sup>st</sup> as long as the September meeting includes the proposed budget.

If September is cancelled, the October meeting will need to be on October 7<sup>th</sup> or 14<sup>th</sup>.

**BOARD ACTION:**

As appropriate by Board.