

NORTHWEST LAKEWOOD SANITATION DISTRICT

141 Union Boulevard, Suite 150
Lakewood, Colorado 80228-1898
Tel: 303-987-0835 • 800-741-3254
Fax: 303-987-2032

NOTICE OF REGULAR MEETING AND AGENDA OF THE BOARD OF DIRECTORS OF THE DISTRICT AND OF THE WASTE WATER UTILITY ENTERPRISE

<u>Board of Directors:</u>	<u>Office:</u>	<u>Term/Expiration:</u>
Anthony M. Dursey	President	2022/May 2022
Gregory A. "Greg" Fabisiak	Vice President/Treasurer	2023/May 2023
James D. "Jim" Zimmerman	Secretary	2022/May 2022
Catherine "CiCi" Kesler	Assistant Secretary	2023/May 2023
George C. Davenport	Assistant Secretary	2022/May 2022

DATE: March 23, 2022

TIME: 4:00 P.M.

PLACE: **VIA Zoom**

If you experience technical difficulties, email Steve Beck at sbeck@sdmsi.com.

Join Zoom Meeting

<https://us02web.zoom.us/j/87628717596?pwd=Y01MWlpuOWVBL2FoQ1pobHV5a2daQT09>

Meeting ID: 876 2871 7596

Passcode: 852426

Dial In: 1-253-215-8782

I. ADMINISTRATIVE MATTERS

- A. Review and approve Minutes of the January 26, 2022 regular meeting and the February 23, 2022 regular meeting (enclosures).
-

II. PUBLIC COMMENT

- A. _____

III. FINANCIAL MATTERS

- A. Review and approve the payment of claims through the period ending March 8, 2022 as follows (enclosure):

General Fund	\$	12,878.39
Enterprise Fund	\$	95,509.38
Total:	\$	<u>108,387.77</u>

and accept the schedule of cash position as of February 28, 2022 (enclosure); and the unaudited financial statements for the period ending February 28, 2022; and a report on collections for the facilities renovation fees, grease trap inspection fee collections, commercial billing and any other fees imposed and collected by the District (enclosure).

IV. LEGAL MATTERS

A. Update on the Roybal Complaint dismissal (enclosures).

B. Discuss Common Sewer Line Agreement for 2650 Simms Street.

C. Consider adoption of a Resolution to change the Tap Fees for 2022 and to approve the revised fee schedule.

D. TABOR Election update.

V. OPERATIONS MATTERS

A. Operations Monthly Report (enclosure).

1. _____

B. Engineer's Report (enclosure).

1. Status of 2021 Capital Improvements.

2. Consolidated Mutual update.

3. Update on 10531 W 22nd Place (enclosure).

4. Consider approval of Pay Application No. 4, payable to Insituform Technologies, LLC, in the amount of \$31,706.66, for 2021 Sanitary Sewer Improvements (enclosure).

VI. OTHER BUSINESS

A. Metro Water Recovery Update (enclosure).

B. Website update.

VII. ADJOURNMENT **THE NEXT REGULAR MEETING IS SCHEDULED FOR
APRIL 27, 2022.**

RECORD OF PROCEEDINGS

MINUTES OF A REGULAR MEETING OF THE BOARD OF DIRECTORS OF THE NORTHWEST LAKEWOOD SANITATION DISTRICT AND THE BOARD OF DIRECTORS OF THE WASTEWATER UTILITY ENTERPRISE HELD JANUARY 26, 2022

In part due to COVID-19 concerns, the Regular Meeting of the Board of Directors of the Northwest Lakewood Sanitation District and the Board of Directors of its Wastewater Utility Enterprise (collectively referred to hereafter as “Board”) was convened by Zoom video conference and teleconference call on Wednesday, January 26, 2022, at 4:00 PM. The Zoom Meeting and call-in information was listed in the meeting notice posted by the District, and the public was able to attend the meeting by telephone, if they so desired.

ATTENDANCE

Directors In Attendance Were:

Anthony M. Dursey
Greg Fabisiak
Jim Zimmerman
Cici Kesler
Clark Davenport

Also In Attendance Were:

Steve Beck; Special District Management Services, Inc.

Tim Flynn, Esq.; Collins, Cockrel & Cole, P.C.

Bill Willis; Martin/Martin Consulting Engineers

Wayne Ramey; Ramey Environmental Compliance

Walt Frankland

ADMINISTRATIVE MATTERS

Minutes: The Board reviewed the minutes of the December 22, 2021 Special Meeting.

Following discussion, upon motion duly made by Director Davenport, seconded by Director Kesler, and upon vote, unanimously carried, the minutes of the December 22, 2021 Special Meeting were approved, as presented.

PUBLIC COMMENTS

None.

RECORD OF PROCEEDINGS

FINANCIAL MATTERS

Claims: Mr. Beck discussed with the Board the payment of claims for the period ending January 20, 2022, as follows:

General Fund	\$ 50,279.83
Enterprise Fund	\$ 418,614.65
Total	<u>\$ 468,894.48</u>

Following discussion, upon motion duly made by Director Kesler, seconded by Director Davenport and, upon vote, unanimously carried, the Board approved the payment of claims for the period ending January 20, 2022.

Unaudited Financial Statement: Mr. Beck reviewed with the Board the unaudited financial statements of the District setting forth the cash deposits, investments, and budget analysis, accounts payable vouchers for the period ending December 31, 2021, the schedule of cash position dated December 31, 2021, and the Accounts Receivable reports on collections of fees, the past due accounts and collection efforts.

Following discussion, upon motion duly made by Director Kesler, seconded by Director Davenport, and, upon vote, unanimously carried, the Board accepted the unaudited financial statements of the District setting forth the cash deposits, investments, budget analysis, accounts payable vouchers and accounts receivables reports for the period ending December 31, 2021, and the schedule of cash position dated December 31, 2021, as presented.

LEGAL MATTERS

Roybal Complaint Update: Attorney Flynn reported that the SDA Liability Insurance Pool has engaged The Lane Law Firm to represent the District in the resolution of this complaint. At this time a Motion to Dismiss has been filed in regard to the complaint against the District.

May 2022 Election and Self-Nomination Forms: Attorney Flynn updated the Board on the 2022 Election process and stated that the self-nomination forms are due by February 28, 2022. Mrs. Steggs will be posting the notices concerning the self-nomination forms and Mr. Frankland will post a notice on the District website.

November Election and inclusion of a TABOR vote: Attorney Flynn and Mr. Beck discussed the November election, PR firms and unrealized revenues due to TABOR limitations. Director Zimmerman will provide the information on a consultant to be contacted about assisting with an election campaign.

Common Sewer Line Agreement for 2650 Simms Street: Attorney Flynn and Mr. Willis discussed the proposed agreement to allow the variance for the common sewer line for 2650 Simms Street. Following discussion, the Board authorized Attorney Flynn to send the agreement to Mr. Bauer for review, acceptance and signature.

RECORD OF PROCEEDINGS

Resolution Establishing the Date, Time and Location for the Regular Meetings of the Board of Directors of the Northwest Lakewood Sanitation District and Designating the Location for Posting Notice of District Meetings Online in Compliance with the Open Meetings Law: Attorney Flynn discussed the resolution for the posting of the date, time and location of the Regular Board meetings on the District website.

Following discussion, upon motion duly made by Director Kesler, seconded by Director Davenport and, upon vote, unanimously carried, the Board adopted Resolution No. 2022-1-1; A Resolution Establishing the Date, Time and Location for the Regular Meetings of the Board of Directors of the Northwest Lakewood Sanitation District and Designating the Location for Posting Notice of District Meetings Online in Compliance with the Open Meetings Law. A copy of the adopted Resolution is attached hereto and incorporated herein by this reference.

Engagement of Collins Cole Flynn Winn & Ulmer, PLLC: Attorney Flynn discussed with the Board the Engagement Letter between the District and Collins Cole Flynn Winn & Ulmer, PLLC and transfer of files from Collins, Cockrel & Cole to the new firm.

Following discussion, upon motion duly made by Director Zimmerman, seconded by Director Kesler, and, upon vote, unanimously carried, the Board ratified approval of the Engagement Letter between the District and Collins Cole Flynn Winn & Ulmer, PLLC, as amended.

OPERATIONS MATTERS

Operations Monthly Report: Mr. Ramey reviewed the monthly report (December 1-31) with the Board and noted that all planned work for the year has been completed. A copy of the report is attached hereto and incorporated herein by this reference.

Engineer's Report: Mr. Willis reviewed with the Board the engineering report dated January 18, 2022. A copy of the report is attached hereto and incorporated herein by this reference.

Mr. Willis discussed the problems in the sewer lateral at 10531 W 22nd Place and that it is unknown as to how the pipe has broken and the only way to verify the liability and determine repair responsibility is to excavate the lateral from the tap back to the end of the replaced line. Mr. Bruce Mathers has been in contact with Mr. Beck and Mr. Willis regarding the problem and an agreement is being proposed that the District will have the line excavated to expose the lateral so that it can be examined. Following discussion, the Board authorized Mr. Willis and Mr. Beck to propose the agreement to Mr. Mathers and if he is in agreement to have Attorney Flynn to draft the agreement for signature.

Pay Application No. 1 from Insituform Technologies LLC: Mr. Willis discussed with the Board Pay Application No. 1 for work completed on the Northwest Lakewood

RECORD OF PROCEEDINGS

Sanitation District – 2021 Sanitary Sewer Improvements project through the month of December 2021.

Following discussion, upon motion duly made by Director Zimmerman, seconded by Director Kesler, and, upon vote, unanimously carried, the Board approved the payment of Pay Application No. 1 to Insituform Technologies LLC, in the amount of \$348,949.25.

Mr. Willis then discussed with the Board Change Order No. 1 from Insituform Technologies LLC, in the amount of \$31,279.00.

Following discussion, upon motion duly made by Director Fabisiak, seconded by Director Davenport, and, upon vote, unanimously carried, the Board approved payment of Change Order No. 1, in the amount of \$31,279.00.

OTHER BUSINESS

Metro Wastewater Update: Director Davenport updated the Board on the board meetings for Metro Water Recovery District and discussed his letter regarding his observations of the construction project.

Website Update: Mr. Frankland reported that the website is updated and current and that there are no problems. He requested a new map from Mr. Willis and Mr. Beck will provide the notice for the Call for Nominations. Attorney Flynn and Mr. Frankland discussed the status of the website as to ADA compliance. Mr. Frankland with review the website platform to determine if it can be made compliant.

ADJOURNMENT

There being no further business to come before the Board at this time, upon motion duly made by Director Kesler, seconded by Director Fabisiak and, upon vote, unanimously carried, the meeting was adjourned.

Respectfully submitted,

By _____
Secretary for the Meeting

**MINUTES OF A REGULAR MEETING OF
THE BOARD OF DIRECTORS OF THE
NORTHWEST LAKEWOOD SANITATION DISTRICT
AND THE BOARD OF DIRECTORS OF THE
WASTEWATER UTILITY ENTERPRISE
HELD
FEBRUARY 23, 2022**

In part due to COVID-19 concerns, the Regular Meeting of the Board of Directors of the Northwest Lakewood Sanitation District and the Board of Directors of its Wastewater Utility Enterprise (collectively referred to hereafter as "Board") was convened by Zoom video conference and teleconference call on Wednesday, February 23, 2022, at 4:00 PM. The Zoom Meeting and call-in information was listed in the meeting notice posted by the District, and the public was able to attend the meeting by telephone, if they so desired.

ATTENDANCE

Directors In Attendance Were:

Anthony M. Dursey
Greg Fabisiak
Jim Zimmerman
Cici Kesler
Clark Davenport

Also In Attendance Were:

Steve Beck; Special District Management Services, Inc.

Tim Flynn, Esq.; Collins, Cockrel & Cole, P.C.

Bill Willis; Martin/Martin Consulting Engineers

Wayne Ramey; Ramey Environmental Compliance

Walt Frankland

**ADMINISTRATIVE
MATTERS**

Minutes: Mr. Beck reported that the minutes for the January meeting were not ready and approved in time for the Board Meeting and would be presented at the March Meeting.

Following discussion, upon motion duly made by Director Kesler, seconded by Director Fabisiak, and upon vote, unanimously carried, the minutes of the January 26, 2022, Regular were tabled until the March Meeting.

**PUBLIC
COMMENTS**

None.

RECORD OF PROCEEDINGS

FINANCIAL MATTERS

Claims: Mr. Beck discussed with the Board the payment of claims for the period ending February 18, 2022, as follows:

General Fund	\$ 310,313.03
Enterprise Fund	\$ 454,281.81
Total	<u>\$ 764,594.84</u>

Following discussion, upon motion duly made by Director Kesler, seconded by Director Fabisiak and, upon vote, unanimously carried, the Board approved the payment of claims for the period ending February 18, 2022.

Unaudited Financial Statement: Mr. Beck reviewed with the Board the unaudited financial statements of the District setting forth the cash deposits, investments, and budget analysis, accounts payable vouchers for the period ending January 31, 2022, the schedule of cash position dated January 31, 2022, and the Accounts Receivable reports on collections of fees, the past due accounts and collection efforts.

Following discussion, upon motion duly made by Director Kesler, seconded by Director Fabisiak, and, upon vote, unanimously carried, the Board accepted the unaudited financial statements of the District setting forth the cash deposits, investments, budget analysis, accounts payable vouchers and accounts receivables reports for the period ending January 31, 2022, and the schedule of cash position dated January 31, 2022, as presented.

ColoTrust EDGE Investment option: Mr. Beck discussed the new investment option for funds in ColoTrust with the Board. He will continue to monitor the fund as it is implemented and report to the Board on how it is functioning.

LEGAL MATTERS

Roybal Complaint Update: Attorney Flynn reported that a \$2,000.00 settlement agreement has been reached with the plaintiff and that a Motion to Dismiss has been filed in regard to the complaint and that we are waiting on the payment to be received and the entry of an Order dismissing the case against Northwest Lakewood with prejudice.

Common sewer line agreement for 2650 Simms Street: Attorney Flynn reported that the agreement has been sent to Mr. Bauer and we are awaiting his acceptance of and signature on the agreement.

Consider the adoption of a Resolution to change the tap fees for 2022: Attorney Flynn requested that this item be tabled until the March meeting so that the resolution can be finalized.

November Election and inclusion of a TABOR vote: Attorney Flynn and Mr. Beck discussed the November election and PR firms to assist with the campaign. One firm has been contacted and they cannot assist with that election. Director Kesler will

RECORD OF PROCEEDINGS

contact two firms that she is aware of and will report back at the March meeting on these.

OPERATIONS MATTERS

Operations Monthly Report: Mr. Ramey reviewed the monthly report (January 1-31) with the Board. A copy of the report is attached hereto and incorporated herein by this reference.

Engineer's Report: Mr. Willis reviewed with the Board the engineering report dated February 23, 2022. A copy of the report is attached hereto and incorporated herein by this reference.

Mr. Willis discussed the problems in the sewer lateral at 10531 W 22nd Place and that he and Mr. Beck have been in contact with Mr. Mathers regarding the agreement to excavate the line to determine the cause of the problems. Attorney Flynn is preparing the agreement for review and signature.

Pay Application No. 2 from Insituform Technologies LLC: Mr. Willis discussed the Pay Application No. 2 invoice for the work performed through January 14, 2022 which is about 42% of the original contract and includes Change Order No. 2.

Following discussion, upon motion duly made by Director Zimmerman, seconded by Director Davenport, and, upon vote, unanimously carried, the Board approved Change Order No. 2 and authorized the payment.

Following discussion, upon motion duly made by Director Zimmerman, seconded by Director Davenport, and, upon vote, unanimously carried, the Board approved the payment of Pay Application No. 2 to Insituform Technologies LLC.

Pay Application No. 3 from Insituform Technologies LLC: Mr. Willis discussed the Pay Application No. 3 invoice for the work performed through February 11, 2022 which is about 50% of the original contract and includes Change Order No. 3.

Following discussion, upon motion duly made by Director Zimmerman, seconded by Director Davenport, and, upon vote, unanimously carried, the Board approved Change Order No. 3 and authorized the payment.

Following discussion, upon motion duly made by Director Zimmerman, seconded by Director Davenport, and, upon vote, unanimously carried, the Board approved the payment of Pay Application No. 3 to Insituform Technologies LLC.

RECORD OF PROCEEDINGS

OTHER BUSINESS **Metro Wastewater Update:** Director Davenport updated the Board on the board meetings for Metro Water Recovery District and discussed his letter regarding his observations of the construction project.

Website Update: Mr. Frankland reported that the website is updated and current and that there are no problems. He requested a new map from Mr. Willis and Mr. Beck will provide the notice for the Call for Nominations. Attorney Flynn and Mr. Frankland discussed the status of the website as to ADA compliance. Mr. Frankland with review the website platform to determine if it can be made compliant.

ADJOURNMENT There being no further business to come before the Board at this time, upon motion duly made by Director Kesler, seconded by Director Fabisiak and, upon vote, unanimously carried, the meeting was adjourned.

Respectfully submitted,

By _____
Secretary for the Meeting

Check No and Date	Payee	Invoice No	GL Account Title	GL Acct	Amount	Total
2524						
03/08/2022	Bond, Barbara	03082022	Transfer Service Fee	4-570	85.00	85.00
Total 2524:						85.00
2525						
03/08/2022	Collins Cole Flynn Winn & Ulmer,	1347	Legal	1-675	1,308.00	1,308.00
Total 2525:						1,308.00
2526						
03/08/2022	Colorado Community Media	48295	Election and Publication	1-635	24.80	24.80
Total 2526:						24.80
2527						
03/08/2022	Consolidated Mutual Water Co	3174-01 03/2022	Utilities	4-765	23.40	23.40
03/08/2022	Consolidated Mutual Water Co	6866	Repairs & Maintenance-L	4-740	270.00	270.00
03/08/2022	Consolidated Mutual Water Co	6918	Repairs & Maintenance-L	4-740	290.00	290.00
Total 2527:						583.40
2528						
03/08/2022	Fink, Christopher	03082022	Transfer Service Fee	4-570	140.00	140.00
Total 2528:						140.00
2529						
03/08/2022	Frankland, Walter	MAR-2022	Website	1-677	100.00	100.00
Total 2529:						100.00
2530						
03/08/2022	Geiger, Benjamin	03082022	Transfer Service Fee	4-570	100.00	100.00
Total 2530:						100.00
2531						
03/08/2022	Marin, Feliciano	03082022	Transfer Service Fee	4-570	15.00	15.00
Total 2531:						15.00
2532						
03/08/2022	Martin/Martin	17.0638-00190	Sewer Lines/Eng./Observ.	4-810	2,085.00	2,085.00
03/08/2022	Martin/Martin	17.0638-00191	Sewer Lines/Eng./Observ.	4-810	1,767.50	1,767.50
03/08/2022	Martin/Martin	17.0638-00192	2021 CIP	4-883	20,520.00	20,520.00
Total 2532:						24,372.50
2533						
03/08/2022	Nagy, Matthew	03082022	Transfer Service Fee	4-570	315.00	315.00
Total 2533:						315.00
2534						
03/08/2022	Ramey Enviromental Compliance	23592	COS-Collection System	4-746	9,572.75	9,572.75
03/08/2022	Ramey Enviromental Compliance	23592	COS-Locates	4-742	7,442.75	7,442.75
03/08/2022	Ramey Enviromental Compliance	23592	COS-Emergency Service	4-748	383.55	383.55

Check No and Date	Payee	Invoice No	GL Account Title	GL Acct	Amount	Total
03/08/2022	Ramey Enviromental Compliance	23592	COS-Maintenance	4-749	5,644.77	5,644.77
Total 2534:						23,043.82
2535						
03/08/2022	Snow, Wendy	03082022	Transfer Service Fee	4-570	50.00	50.00
Total 2535:						50.00
2536						
03/08/2022	Special Dist Management Serv	02/2022	Office Supplies	1-690	250.29	250.29
03/08/2022	Special Dist Management Serv	02/2022	Accounting	1-612	2,160.80	2,160.80
03/08/2022	Special Dist Management Serv	02/2022	Administration	1-614	4,972.80	4,972.80
03/08/2022	Special Dist Management Serv	02/2022	Billing	1-616	2,824.20	2,824.20
Total 2536:						10,208.09
2537						
03/08/2022	Special District Association	SDA-2022	Dues & Subscriptions	1-630	1,237.50	1,237.50
Total 2537:						1,237.50
2538						
03/08/2022	UNCC	222020971	Repairs & Maintenance-L	4-740	429.00	429.00
Total 2538:						429.00
2539						
03/08/2022	Wadsworth, Jo	03082022	Transfer Service Fee	4-570	100.00	100.00
Total 2539:						100.00
2540						
03/08/2022	White, Christine	03082022	Transfer Service Fee	4-570	100.00	100.00
Total 2540:						100.00
2541						
03/17/2022	Diamond Contracting Corp.	1003213	Repairs & Maintenance-L	4-740	14,469.00	14,469.00
Total 2541:						14,469.00
2542						
03/17/2022	Insituform Technologies USA LL	PAY APP #4	2021 CIP	4-883	33,375.43	33,375.43
03/17/2022	Insituform Technologies USA LL	PAY APP #4	Retainage	4-318	1,668.77-	1,668.77-
Total 2542:						31,706.66
Grand Totals:						108,387.77

Northwest Lakewood Sanitation District
March-22

	General	Enterprise	Totals
Disbursements	\$ 12,878.39	\$ 95,509.38	\$ 108,387.77
Payroll			\$ -
			\$ -
Payroll Taxes (Quarterly)	\$ -		\$ -
Direct Pay -- Consolidated Mutual Water	\$ -		\$ -
Total Disbursements from Checking Account	\$ 12,878.39	\$ 95,509.38	\$ 108,387.77

NORTHWEST LAKEWOOD SANITATION DISTRICT
Schedule of Cash Position
February 28, 2022

	<u>Rate</u>	<u>Operating</u>	<u>Enterprise</u>	<u>Total</u>
Checking:				
Checking Acct 1st Bank		\$ 5,280.71	\$ 103,574.19	\$ 108,854.90
Investments:				
Cash in Bank-ColoTrust	0.0981%	491,224.78	3,843,436.08	4,334,660.86
1st Bank Liquid Asset Account	0.0500%	13,080.50	3,277,873.77	3,290,954.27
Xpress Bill Pay		-	354,313.70	354,313.70
TOTAL FUNDS:		<u>\$ 509,585.99</u>	<u>\$ 7,579,197.74</u>	<u>\$ 8,088,783.73</u>

2022 Mill Levy Information

Certified General Fund Mill Levy	7.696
Refunds/Abatements	0.011
Temporary Mill Levy Reduction	<u>-2.046</u>
Total Certified Mill Levy	<u>5.661</u>

Board of Directors

- * Anthony Dursey
- * Gregory Fabisiak
- * James Zimmerman
- * Catherine Kesler
- George Clark Davenport

* Authorized signer on the Checking Account

NORTHWEST LAKEWOOD SANITATION DISTRICT

FINANCIAL STATEMENTS

February 28, 2022

NORTHWEST LAKEWOOD SANITATION DISTRICT
 COMBINED BALANCE SHEET - ALL FUND TYPES AND ACCOUNT GROUPS
 February 28, 2022

	GENERAL	ENTERPRISE	TOTAL
Assets			
Checking Acct 1st Bank	\$ 5,280.71	\$ 103,574.19	\$ 108,854.90
1st Bank Liquid Asset Account	13,080.50	3,277,873.77	3,290,954.27
Xpress Bill Pay	-	354,313.70	354,313.70
Cash in Bank-ColoTrust	491,224.78	3,843,436.08	4,334,660.86
Property Taxes Receivable	1,527,516.02	-	1,527,516.02
	-	89,290.74	89,290.74
Accounts Rec-Fac Renovtion Fee	-	83,824.74	83,824.74
A/R Fee Cert to Cty Treasurer	-	23,673.00	23,673.00
Account Rec-Grease Trap Insp	-	1,650.00	1,650.00
Prepaid Expenditures	25,283.30	-	25,283.30
Total Current Assets	<u>2,062,385.31</u>	<u>7,777,636.22</u>	<u>9,840,021.53</u>
Capital Assets			
Land	-	7,584.33	7,584.33
Sewer Lines	-	15,946,084.72	15,946,084.72
Accumulated Depreciation	-	(5,036,441.57)	(5,036,441.57)
Construction in Progress	-	1,690,403.00	1,690,403.00
Total Capital Assets	<u>-</u>	<u>12,607,630.48</u>	<u>12,607,630.48</u>
Total Assets	<u>\$ 2,062,385.31</u>	<u>\$ 20,385,266.70</u>	<u>\$ 22,447,652.01</u>
Liabilities			
Accounts Payable	\$ 15,556.54	\$ 159,029.17	\$ 174,585.71
Payroll Liabilities	443.70	-	443.70
Expense Reimbursement Deposit	19,000.00	-	19,000.00
Retainage	-	46,343.45	46,343.45
2021 Encumbrances Payable	-	1,690,403.00	1,690,403.00
Total Liabilities	<u>35,000.24</u>	<u>1,895,775.62</u>	<u>1,930,775.86</u>
Deferred Inflows of Resources			
Deferred Property Taxes	1,527,516.02	-	1,527,516.02
Total Deferred Inflows of Resources	<u>1,527,516.02</u>	<u>-</u>	<u>1,527,516.02</u>
Fund Balance			
Contributed Capital-Sewer Line	-	6,250,713.25	6,250,713.25
Contributed Capital-Inclusions	-	1,752,454.13	1,752,454.13
Fund Balance	768,486.06	10,966,654.02	11,735,140.08
Fund Balance-Restricted	42,100.00	-	42,100.00
Current Year Earnings	(310,717.01)	(480,330.32)	(791,047.33)
Total Fund Balances	<u>499,869.05</u>	<u>18,489,491.08</u>	<u>18,989,360.13</u>
Total Liabilities, Deferred Inflows of Resources and Fund Balance	<u>\$ 2,062,385.31</u>	<u>\$ 20,385,266.70</u>	<u>\$ 22,447,652.01</u>

NORTHWEST LAKEWOOD SANITATION DISTRICT
Statement of Revenues, Expenditures and Changes in Fund Balance - Budget and Actual
For the 2 Months Ending,
February 28, 2022
General Fund

<u>Account Description</u>	<u>Period Actual</u>	<u>YTD Actual</u>	<u>Budget</u>	<u>Under/(Over)</u> <u>Budget</u>	<u>% of</u> <u>Budget</u>
Revenues					
Property Tax	\$ 10,309.81	\$ 10,309.81	\$ 1,537,826.00	\$ 1,527,516.19	0.7%
Specific Ownership Tax	9,806.69	9,806.69	108,000.00	98,193.31	9.1%
Interest & Misc. Income	55.88	106.41	12,000.00	11,893.59	0.9%
Total Revenues	<u>20,172.38</u>	<u>20,222.91</u>	<u>1,657,826.00</u>	<u>1,637,603.09</u>	<u>1.2%</u>
Expenditures					
Accounting	2,160.80	4,854.40	30,000.00	25,145.60	16.2%
Administration	4,972.80	10,064.00	48,000.00	37,936.00	21.0%
Audit	-	-	6,500.00	6,500.00	0.0%
Billing	2,824.20	5,463.20	32,000.00	26,536.80	17.1%
Bank Charges	-	-	120.00	120.00	0.0%
Director's Fees	-	2,900.00	6,000.00	3,100.00	48.3%
Dues & Subscriptions	1,237.50	1,237.50	1,250.00	12.50	99.0%
Election and Publication	24.80	24.80	25,000.00	24,975.20	0.1%
Insurance and Bonds	2,457.83	5,170.70	45,000.00	39,829.30	11.5%
Legal	1,308.00	4,895.00	48,000.00	43,105.00	10.2%
Website	100.00	200.00	2,000.00	1,800.00	10.0%
Miscellaneous Expenses	-	-	1,000.00	1,000.00	0.0%
Office Supplies	250.29	389.27	5,000.00	4,610.73	7.8%
Payroll Taxes-Directors	-	221.85	459.00	237.15	48.3%
Treasurer's Fees	154.65	154.65	23,067.00	22,912.35	0.7%
Treatment Charges	-	295,808.25	1,183,233.00	887,424.75	25.0%
Engineering	-	-	60,000.00	60,000.00	0.0%
Utilities	-	-	4,000.00	4,000.00	0.0%
Contingency	-	-	150,000.00	150,000.00	0.0%
Emergency Reserve	-	-	49,735.00	49,735.00	0.0%
Total Expenditures	<u>15,490.87</u>	<u>331,383.62</u>	<u>1,720,364.00</u>	<u>1,388,980.38</u>	<u>19.3%</u>
Transfers and Other Sources (Uses)					
Transfer to Enterprise Fund	-	-	-	-	
Total Transfers and Other Sources (Uses)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	
Change in Fund Balance	4,681.51	(311,160.71)	(62,538.00)	248,622.71	
Beginning Fund Balance	495,187.54	811,029.76	870,415.00	59,385.24	
Ending Fund Balance	<u>\$ 499,869.05</u>	<u>\$ 499,869.05</u>	<u>\$ 807,877.00</u>	<u>\$ 308,007.95</u>	

NORTHWEST LAKEWOOD SANITATION DISTRICT
Statement of Revenues, Expenditures and Changes in Fund Balance - Budget and Actual
For the 2 Months Ending,
February 28, 2022
Enterprise Fund

<u>Account Description</u>	<u>Period Actual</u>	<u>YTD Actual</u>	<u>Budget</u>	<u>Under/(Over) Budget</u>	<u>% of Budget</u>
Revenues					
Service Agreement-Westridge	\$ -	\$ -	\$ 2,350.00	\$ 2,350.00	0.0%
Service Agreement-Applewood	-	-	8,000.00	8,000.00	0.0%
Treatment Chgs-College Park	-	-	209,432.00	209,432.00	0.0%
Maintenance-College Park	-	-	-	-	0.0%
Facilities Renovation Fees	11,970.00	527,382.20	2,250,000.00	1,722,617.80	23.4%
Service Fees-Commercial	-	-	-	-	0.0%
Connection Fee	-	-	-	-	0.0%
Tap Fees	-	-	38,000.00	38,000.00	0.0%
Grease Trap Inspection	1,650.00	1,650.00	12,000.00	10,350.00	13.8%
Interest Income	303.79	575.49	4,000.00	3,424.51	14.4%
Transfer Service Fee	(155.00)	(155.00)	6,000.00	6,155.00	-2.6%
Miscellaneous Income	-	-	-	-	0.0%
Other Income	-	-	-	-	0.0%
Inspection Fees	300.00	600.00	6,000.00	5,400.00	10.0%
Permit Fees	50.00	100.00	400.00	300.00	25.0%
Denver Water Service Agreement	-	-	37,000.00	37,000.00	0.0%
Transfer from General Fund	-	-	-	-	0.0%
Total Revenues	14,118.79	530,152.69	2,573,182.00	2,043,029.31	20.6%
Expenditures					
Administrative					
Billing	2,746.46	2,784.33	24,000.00	21,215.67	11.6%
Legal	-	-	750.00	750.00	0.0%
Miscellaneous Expenses	-	-	500.00	500.00	0.0%
Treasurer's Fees	-	-	450.00	450.00	0.0%
Total Administrative	2,746.46	2,784.33	25,700.00	22,915.67	10.8%
Operations and Maintenance					
NWLSD Treatment Chg-College Pk	-	-	-	-	0.0%
NWLSD Treatment Chgs-Westridge	-	-	-	-	0.0%
NWLSD Treatment Chgs-Applewood	-	-	-	-	0.0%
Treatment Charges-Westridge	-	-	16,500.00	16,500.00	0.0%
Treatment Charges-Applewood	-	-	-	-	0.0%
Tap Fees-Metro's Portion	-	-	18,500.00	18,500.00	0.0%
Repairs & Maintenance-Lines	989.00	1,177.50	10,000.00	8,822.50	11.8%
COS-Grease Trap	-	-	9,500.00	9,500.00	0.0%
COS-Locates	7,442.75	12,268.75	60,000.00	47,731.25	20.4%
COS-Collection System Oversight	9,572.75	15,787.91	95,000.00	79,212.09	16.6%
COS-Daily Operations	-	-	16,000.00	16,000.00	0.0%
COS-Emergency Service	383.55	767.10	12,000.00	11,232.90	6.4%
COS-Maintenance	5,644.77	14,156.06	175,000.00	160,843.94	8.1%
Utilities	23.40	69.50	250.00	180.50	27.8%
Total Operations and Maintenance	24,056.22	44,226.82	412,750.00	368,523.18	10.7%
Capital Outlay					
Sewer Lines/Eng./Observ.	3,852.50	8,395.80	400,000.00	391,604.20	2.1%
2020 CIP	-	-	-	-	0.0%
2021 CIP	135,965.00	955,076.06	-	(955,076.06)	0.0%
2022 CIP	-	-	2,100,000.00	2,100,000.00	0.0%
Total Capital	139,817.50	963,471.86	2,500,000.00	1,536,528.14	38.5%
Total Expenditures	166,620.18	1,010,483.01	2,938,450.00	1,927,966.99	34.4%
Excess (Deficiency) of Revenues Over Expenditures	(152,501.39)	(480,330.32)	(365,268.00)	115,062.32	
Beginning Fund Balance	10,638,825.09	10,966,654.02	6,070,313.00	(4,896,341.02)	
Ending Fund Balance	\$ 10,486,323.70	\$ 10,486,323.70	\$ 5,705,045.00	\$ (4,781,278.70)	

Sedgwick Claims Management Services, Inc.
P O Box 14493
Lexington, KY 40512-4493



Phone: (800)507-9656
Fax: (303)713-6056

March 15, 2022

Northwest Lakewood Sanitation District
c/o Special District Management Service
Attn: Steve Beck
141 Union Blvd., Suite 150
Lakewood, CO 80228

CLOSING NOTICE – Property & Casualty

Member Contact: **Steve Beck, sbeck@sdmsi.com**

Broker and/or Counsel: **Christie Kersnick, ckersnick@wilsonins.com;
Tim Flynn, tflynn@CCCFIRM.COM**

District: Northwest Lakewood Sanitation District

Claimant Name: Shane Roybal

Claim Number: 20811444-1

Date of Loss: 09/22/2019

Description: Claimant riding bicycle allegedly slipped on algae that formed on the street due to runoff water.

Coverage handled under: General Liability-Bodily Injury

Total Amount paid out:

INDEMNITY	\$2,000.00
EXPENSES	\$11,639.50
TOTAL	\$13,639.50

Deductible: \$0

Subrogation: No

Date of closing: 03/15/22

Why closing: The lawsuit settled and is now dismissed.



PLEASE LET ME KNOW IF YOU HAVE ANY QUESTIONS!

Respectfully yours,

Kevin Small, J.D. | Claims Examiner-Liability
Sedgwick
PO Box 14493
Lexington, KY 40512-4493
DIRECT 303-713-6134
FAX 303-713-6056
EMAIL Kevin.Small@sedgwick.com

Sedgwick manages claims on behalf of Northwest Lakewood Sanitation Dist.



We value your privacy. For more on what personal information we may collect, how we may use this information and other important areas relating to your privacy and data protection, please read our privacy notice www.sedgwick.com.



DISTRICT COURT, JEFFERSON COUNTY, COLORADO	
Court Address: 100 JEFFERSON COUNTY PARKWAY, GOLDEN, CO, 80401-6002	
Plaintiff(s) SHANE ROYBAL	DATE FILED: March 7, 2022 10:42 AM CASE NUMBER: 2021CV31040
v.	
Defendant(s) CITY OF WHEAT RIDGE et al.	
△ COURT USE ONLY △	
Case Number: 2021CV31040	
Division: 1	Courtroom:
Order: Stipulation of Dismissal of Northwest Lakewood Sanitation District	

The motion/proposed order attached hereto: SO ORDERED.

Issue Date: 3/7/2022



LILY WALLMAN OEFFLER
District Court Judge

DISTRICT COURT, COUNTY OF JEFFERSON, STATE OF COLORADO 100 Jefferson County Parkway Golden, Colorado 80401	<p style="text-align: center;">^COURT USE ONLY^</p>
<p>SHANE ROYBAL,</p> <p>Plaintiff,</p> <p>v.</p> <p>CITY OF WHEAT RIDGE, a Colorado Governmental Entity; NORTHWEST LAKEWOOD SANITATION DISTRICT, a Colorado Governmental Entity; CITY OF LAKEWOOD, a Colorado Governmental Entity; CONSOLIDATED MUTUAL WATER SUPPLY CO., a Colorado Non-Profit Entity; and DEVELOPMENT 26, LLC, a Colorado Limited Liability Company,</p> <p>Defendants.</p>	
James A. Halpin, Attorney Reg. No. 14528 jhalpin@culpepperlaw.us BLAIKIE WOLFE LEGAL GROUP, LTD. 1301 Pennsylvania Avenue, Suite 200 Boulder, Colorado 80302 Telephone: 800/909-3539 Direct: 303/832-8400 Facsimile: 800/909-3734 ATTORNEYS FOR PLAINTIFF	<p>Case No. 2021CV31040</p> <p>Division 1</p>
<p>STIPULATION OF DISMISSAL OF DEFENDANT NORTHWEST LAKEWOOD SANITATION DISTRICT</p>	

Plaintiff Shane Roybal and Defendant Northwest Lakewood Sanitation, by and through respective undersigned counsel, and pursuant to C.R.C.P. 41(a)(1), hereby submit this Stipulation of Dismissal as follows:

1. These two parties have reached a settlement of all applicable claims, and in connection therewith have agreed that Defendant Northwest Lakewood Sanitation District, and the claims against it, shall be dismissed from this action with prejudice.

2. In accordance with C.R.C.P. 41(a)(1), counsel for Plaintiff and counsel for Northwest Lakewood Sanitation District hereby stipulate to this dismissal with prejudice of the claims against Northwest Lakewood Sanitation District, and respectfully request the Court and all other parties hereto to take notice of the same.

Respectfully submitted this 4th day of March 2022.

BLAIKIE WOLFE LEGAL GROUP, LTD.

/s/ James A. Halpin
{Original signature on file at office of counsel}
By: James A. Halpin, Esq.
ATTORNEYS FOR PLAINTIFF

THE LANE LAW FIRM, P.C.

/s/ Sean Lane
{Original signature on file at office of counsel}
By: Sean Lane, Esq.
5105 DTC Parkway, Suite 450
Greenwood Village, CO 80111
ATTORNEYS FOR DEFENDANT
NORTHWEST LAKEWOOD SANITATION
DISTRICT

CERTIFICATE OF SERVICE

I hereby certify that the foregoing STIPULATION OF DISMISSAL OF DEFENDANT NORTHWEST LAKEWOOD SANITATION DISTRICT was filed and served via the ICCES Filing System this 4th day of March 2022, as follows:

Winslow R. Taylor, III, Esq.
TUCKER HOLMES, P.C.
Quebec Centre II, Suite 300
7400 East Caley Avenue
Centennial, Colorado 80111
ATTORNEYS FOR DEFENDANT
CITY OF WHEAT RIDGE

Luke McFarland, Esq.
MCFARLAND LITIGATION PARTNERS, LLC
910 13th Street, Suite 200
Golden, Colorado 80401
ATTORNEYS FOR DEFENDANT
CONSOLIDATED MUTUAL WATER SUPPLY CO.

Jesse Walden
DEVELOPMENT 26, LLC
jesse@lucid-studio.com

/s/ James A. Halpin

ATTORNEYS FOR PLAINTIFF



Northwest Lakewood Sanitation District

Monthly Report

February 1-28, 2022

Tues	2/1	Responded to request to locate a manhole at 12022 W. 32 nd Ave.
Thurs	2/3	Performed the Moffat reads.
Fri	2/4	Replaced broken manhole lid at W. 26 th Ave. & Paramount Pkwy.
Mon	2/7	Performed 4 locates.
Tues	2/8	Performed 1 locate. Responded onsite to 1 emergency locate at 2071 Willow Ln. for a gas service repair, during normal business hours. Performed 3 grease trap inspections.
Wed	2/9	Performed 3 locates. Performed 1 bore meet locate.
Thurs	2/10	Performed 2 bore meet locates.
Fri	2/11	Performed 3 locates.
Sat	2/12	Responded to via phone to 3 emergency locates at: 2010 Nelson St. for a sewer service repair. 13136 W. 30 th Dr. for a sewer service repair. 2010 Nelson St. for a sewer service repair.
Mon	2/14	Performed 2 locates.
Tues	2/15	Performed 5 locates. Performed 3 grease trap inspections.
Wed	2/16	Performed 7 grease trap inspections.
Fri	2/18	Performed 2 locates.
Mon	2/21	Performed 5 grease trap inspections. Performed 6 locates.
Thurs	2/24	Performed 7 grease trap inspections.
Fri	2/25	Performed 8 locates. Performed 1 bore meet locate.
Sun	2/27	Responded via phone to an emergency locate at W. 35 th Ave. & Kipling St. for an H2O main repair.
Mon	2/28	Performed 6 grease trap inspections. Performed 1 grease trap reinspection. Performed 1 locate.

Task #3 - Maintenance Services				
	Projected 2021 Footage	YTD Actual 2021 Footage	Current Monthly 2021 Footage	YTD Percentage 2021
	Zone C			
Jetting				
14" or Less		99,829.0	1,051.0	
15 or More"		21,422.8		
Easement				
Total Jetting	104,684.0	121,251.8	1,051.0	116%
Televising				
14" or Less		83,650.6	795.2	
15 or More"		18,579.5		
Total Televising	104,684.0	102,230.1	0.0	98%
Accelerated Maintenance				
Non-Routine Jetting		2,869.0		
Non-Routine Televising		2,599.1		
Hot Spot Jetting	19,493.0	22,901.0	3,186.0	117%
Hot Spot Televising		19,260.3	4,295.3	0%
Accelerated Jetting				0%
Annual Root Televising		7,067.6	261.7	0%
Annual Root Cut	10,030.0	5,600.0		56%
Annual Mineral Cleaning	7,823.0	4,621.0	290.0	59%
Annual Mineral Televising		6,852.0		0%
Total Accelerated Maintenance	37,346.0	71,770.0	8,033.0	192%
Total Length of Cleaning	142,030.0	154,373.8	1,341.0	109%
Total Length of Televising	104,684.0	138,009.1	4,557.0	132%
Total Task #3	284,060.0	364,152.9	13,931.0	128%

Northwest Lakewood Sanitation District
Summary for February 1-28, 2022

February 1, 2022
12022 W. 32nd Ave.
Locate Manhole

On Tuesday, February 1, 2022, at 12:00pm, Ismael Gomez of REC. Inc. was contacted by Max Woolman (720-495-7074) of M & M Backhoe regarding assistance in locating a manhole at 12022 W. 32nd Ave. for a sewer service repair. Mr. Woolman informed Ismael they were replacing the whole service lateral and during his scope inspection he found the service lateral is tapped into manhole B-11R-2-4, but he could not physically find this manhole and was requesting assistance in locating it. Ismael arrived on site and located the manhole in the backyard along the fence line. Upon removing large rocks, pulling up the fence and clearing all the dirt from around the manhole, the lid was exposed, and Ismael saw a 1/2in. orange wire going over the lid preventing access to the manhole. Mr. Woolman stated he would contact Comcast to have this wire removed from the top of the manhole and away from their dig area. Ismael departed the site. This is an ongoing issue.

Total time on this issue: Ismael Gomez – 1.0hrs.

February 4, 2022
W. 26th Ave. & Paramount Pkwy.
Replace Broken Manhole Lid

On Friday, February 4, 2022, at 7:45am, Jeff LeBeck and Robert LaBarge of REC. Inc. were dispatched by Ismael Gomez also of REC. Inc., to replace the broken lid of manhole A-17A-13, located at the intersection of W. 26th Ave. & Paramount Pkwy. Upon arrival onsite Jeff and Robert saw an 8in. long crescent moon shaped piece was missing from the lid. Jeff and Robert measured the broken lid, obtained the correct sized replacement lid from the REC. Inc. Arvada office, returned to the site, put the new lid in place and departed the site. No further action is needed at this time.

Total time on this issue: Jeff LeBeck – 2.25hrs.
Rob LaBarge – 2.25hrs.

February 12, 2022
2010 Nelson St.
Emergency Locate

On Saturday, February 12, 2022, at 8:00am, Dustin Anderson of REC. Inc. received an email from Colo811 regarding an emergency locate at 2010 Nelson St. for a sewer service repair. Dustin contacted Daniel (303-287-9009) of Trench Right to get more information on the work area and informed Daniel he was clear of the District main. No further action is needed at this time.

Total time on this issue: Dustin Anderson -- .50hrs.

February 12, 2022
13136 W. 30th Dr.
Emergency Locate

On Saturday, February 12, 2022, at 8:30am, Dustin Anderson of REC. Inc. received an email from Colo811 regarding an emergency locate at 13136 W. 30th Dr. for a sewer service repair. Dustin contacted Manny Guerrero (720-312-9102) of Pipeline Solutions to get more information on the work area, and informed Mr. Guerrero he was clear of the District main. No further action is needed at this time.

Total time on this issue: Dustin Anderson -- .50hrs.

February 12, 2022
2010 Nelson St.
Emergency Locate

On Saturday, February 12, 2022, at 10:00am, Dustin Anderson of REC. Inc. received an email from Colo811 regarding an emergency locate at 2010 Nelson St. for a sewer service repair. This locate was called in earlier in the morning and Dustin contacted Daniel (303-287-9009) of Trench Right to make sure the scope of work had not changed, and informed Daniel he was clear of the District main. No further action is needed at this time.

Total time on this issue: Dustin Anderson -- .50hrs.

February 27, 2022

W. 35th Ave. & Kipling St.

Emergency Locate

On Sunday, February 27, 2022, at 4:45am, Jeff LeBeck received an email from Colo811 regarding an emergency locate at W. 35th Ave. & Kipling St. for an H2O main repair. It was determined this location is out of district for Northwest Lakewood Sanitation District. No further action is needed at this time.

Total time on this issue: Jeff LeBeck -- .25hrs.

**Northwest Lakewood Sanitation District
Engineering Report
March 23, 2022**

2021 - Approximate Linear Footage

- 151,393 LF total
- 110,286 LF in Zone C (jetting/Televising) Excludes footages for Accel maint. **6,783 LF** Roots, minerals.
- 36,469 LF of accelerated maintenance outside Zone C (Jet and CCTV)
- 3,341 LF of root cuts with CCTV outside Zone C
- 1,297 LF of mineral cleaning with CCTV outside Zone C

Signed contracts were received from Insituform on September 9, 2021, and the District has execute them. A scheduling a pre-construction meeting and Notice to Proceed are in process. 1) Signed contracts were received from Insituform on September 22, 2021. 2) REC Moffat reads were received on October 4, 2021. 3) A pre-con meeting is tentatively scheduled the week of October 26th with NTP on November 1st. Insituform is aware of the need for three lines to be completed by December 29, 2021, and then they expect to start the rest of the lining in January of 2022. 4) Martin/Martin has followed up with CDOT but still do not have an update on the permits that were applied for on September 8th. Comments from City of Lakewood were finally received Oct. 20 and simply a re-arrangement of City projects separated from Wheat Ridge and JeffCo has been requested. CCTV from REC for the District will be ready by the end of the year. M/M will start reviews in 2022. Work has begun on projects specific to the combined trunk main with CPWSD and NWLSD. Lakewood approvals have been received. 1) M/M's review of the bypass second submittal was sent to Insituform on December 20, 2020. Their submittal appears acceptable. 2) Moffat December reads were received on January 6, 2022. 3) An initial pay request is attached. 4) 1081 Xenophon (John Berry) complained about needing to not run water for a small time frame to allow a CIPP to take place in the main. 1) MH submittal was received on January 26, 2022, by Insituform and comments were sent back to the Contractor on January 28th. 2) Insituform sent three maps of all repairs performed for the 2021 CIP. Pay requests No. 2 and 3 are submitted for payment.

UPDATE: Moffat February reads were received on March 3, 2022. Pay request No. 4 is submitted for payment.

10019 W. 26th Ave. (Gold's Market – Em's Ice Cream)

UPDATE: Proposed ice cream shop. Recommended 20 GPM grease interceptor.

12700 W. 19th Pl

UPDATE: Proposed addition to existing house.

2535 Swadley – Private Sewer Backup – Service Locate: 3/4/22 Joe Plutt

UPDATE: Owner experiencing backups and needed to know where the service line ran. Alignment crosses the Cul-de-Sac, crosses north side of neighbors parcel, and connects to a main that comes off Simms into a parcels west of it. REC went on-site to assist in finding the service.

20th Ave Oak to Nelson – City of Lakewood Storm and Road Improvements: (Ray) 3/3/22

Update: M/M provide FIR comments and attended the FIR meeting to provide comments. There is a line that is anticipated to need lowering the crosses 20th near Nelson St.



10531 West 22nd Pl (12/23/21) – Bruce Mathers

The Owner provided a CCTV of his service line that showed a break in the service about 10 feet from the main. However, the mainline is newer pvc and the service appears to have been constructed at the same time. Research has indicated that the PVC was installed in the main prior to 2017 but we have not been able to verify an actual date. A warranty would not exist any longer. The owner is stating the mainline installation and service caused and left the break. We suggest that the District get a contractor to expose the break, view the circumstances and repair the line. However, an agreement with the owner should be obtained in case other circumstances caused the break and the Owner should pay for the repair. Additionally, the agreement would carry with it a full release.

Update: Diamond Contracting has repaired the line. Replaced original rubber coupling with strongback coupling and formed concrete cradle around the coupling. Also provided proper bends that were not existing previously.

2650 Simms Street – Single Family with desire to add an ADU on the property – John Bauer

M/M provided Mr. Bauer with the process to accommodate an ADU. GIS mapping was provided to show potential mains they can connect to. A variance request was accepted by the Board on October 27th and the District's Attorney will prepare a **common service line agreement** for this property. A draft of the common service line agreement was sent to the District and M/M for review. Comments were sent back to the District's Attorney on February 2, 2022. The agreement has been sent to the Owner.

UPDATE: None

3400 Pierson St. – Prospect Valley Elementary

The Districts 10" mainline that runs across the School's property within an easement, needs to be relocated to accommodate plans for a new school. The line appears to have an option to relocate west along the south roadway to Quail and replace Quail north to the end of the cul-de-sac. A meeting was held on November 13th to discuss sanitary re-alignment that crosses the school parcel to Quail St. An agreement from District's Attorney was reviewed. Provided information to the design/JeffCo schools related to need for equivalent ability to transmit flow as exists with the two lines that exist (8" within School property and 10" down Quail). A 12" will be required from the point of intercept north on Quail to the end of the Cul-de Sac. We have addressed all questions to date asked by the School with exception of existing taps which we have the information available. District Details were also provided to the School's Engineer. 100% CDs were received on January 29, 2021 and are under review. Questions about the necessary requirements were received and answered on February 8, 2021. We understand that the deposit has not yet been received and thus response to the CD's will be held up until received. The agreement has been executed and MOA Architecture paid the deposit. A full review of plans was provided, and further coordination being provided. The plans should be fairly easy to complete. A question related to allowing more than one connection from the school needs to be considered. They currently show three individual 6" connections. Typically, only a single connection is allowed. The access gate on Amanda Weaver's property needs to be modified to accommodate changes to the School's fence and ROW. Revised plans were received and most modifications are complete and ready to go in terms of the new sanitary within Quail Street. The shifting of Amanda Weaver's Gate was reviewed and accepted as it should not affect the sanitary main. Contractor needs to schedule a pre-con meeting with all Authorities before construction can begin. An acceptance letter was sent to JVA on July 8, 2021. A pre-con meeting was held on September 2, 2021. A relocation agreement was also sent to the Developer for this effort. Coordination related to temp service for the School is being coordinated. 1) There are concerns about the temporary bypass that the school is proposing. There has been discussion with the District's Attorney as to what is needed for this approach. This approach was not included in the original plans that were approved in May. 2) RFI #19's response was received on October 8, 2021, and Martin/Martin informed the Developer that 25' easements need to be shown. The contractor will need to supply legal descriptions and exhibits for this temporary easement and an agreement is required between the District and JeffCo Schools. 1) The temporary easement was sent to the District on October 19th and appears acceptable. The District's Attorney



has drafted the easement agreement allowing a temporary line realignment. As part of the temp easement, the vacation of the existing easement will take place. 2) The sewer relocation agreement was received and is under review by the District. 3) A meeting was also held on November 2nd with the School to determine if they were going to use an oil minder monitor or oil interceptor for the bottom of an elevator. An additional deposit was coordinate by the District. The agreement with JeffCo Schools was completed and sent following review. This allowed the temp sanitary to be constructed. Temporary construction began on January 8, 2022. M/M informed the School that the temporary connections will only need to be inspected and that a more in depth precon meeting will need to take place before permanent construction begins. A meeting was held with JVA on January 21, 2022, and plans were received on January 24th. Another meeting is scheduled for early February to discuss the final layout of the line. JeffCo was desiring to leave the temp line in place and were told this would not work due to long term maintenance. Subsequently they requested to move the new main in Quail to the west and have the ability to directionally drill. These concepts appeared acceptable as long as the final product provided a straight pipe with MH's that operate appropriately.

UPDATE: A request for info on existing taps on the Quail line was made and information sent 3/14/22

3322 Simms St. – Kelsey Kistler (01/18/22) – Single Family Home

Coordination of plans for review of Proof of submission is in process. The proof of submission was sent on January 19, 2022. The Owner/Engineer was able to make the system work with Gravity flow vs. a pump that was initially submitted.

Update: None

20th Ave Urban to Union – City of Lakewood Storm and Road Improvements: (Chris Proper)

M/M provide FIR comments in April and they have all been accommodated in the FOR submittal. The City contractor is to provide 72 hour notice prior to crossing and District main. They will also provide pre and post CCTV for review.

Update: None

1325 Normandy – Jim Skeen (303-809-0027) ADU addition to Single Family

Coordination took place as to needed plan review and ADU requiring an additional tap connection fee. The proof of submission was received on October 22 and was returned to the Owner with an availability letter on October 25th.

UPDATE: None

Paramount Heights Shopping Center (10027 & 10033 W. 26th Ave.) – NWC 26th & Kipling – Golds Grocery

The addresses for this subdivision have been consolidated to 10027 and 10033 West 26th Avenue. A grease questionnaire was sent to the Developer's engineer on October 7, 2021 so they can verify if the original 5,000 gallon Interceptor is actually needed for the tenant currently slated for one of the units. The grease interceptor questionnaire was received on October 15, and it is their desire to not move forward with the grease interceptor. It appears acceptable for the 'Dog Biscuit' unit to use a grease trap. The District will monitor to verify the larger interceptor is not needed. A Coffee shop is anticipated to go into the complex and they determined that a mop sink can not be directed to the grease interceptor that had previously been constructed. A variance was granted based on limited grease or debris anticipated within the mop sink.

UPDATE: None

2100 Youngfield – Land Use

M/M received plans for a proposed Long-Term Temporary Use for surface parking development on December 7, 2018. An acceptance letter was sent to the City of Lakewood on December 17, 2018. M/M received proposal on June 26, 2019 and provided response on June 27, 2019. There appears to be a MH in the middle of the site but it doesn't appear they are planning to use it. TJC contacted M/M to get info on review process and get checklists,



details, and paperwork. Developer is working on agreements. M/M requested a \$15,000 deposit, provided TJC with details and most of the District common notes, and stated that an easement agreement, extension agreement and locates will be required. TJC Limited requested the necessary paperwork to set up escrow and agreements and they are ready to start submitting design plans. M/M sent the Developer an invoice for the required deposit on December 12, 2019. Sanitary utilities map was sent to the contractor and suggested that they verify line sizes. A flow study is being required based on volume anticipated to be contributed and potential of 6" line existing. Legal exhibit, easement, title commitment, and plat were sent to the Attorney on June 9, 2020. Sanitary plans were received and appear acceptable. The developer has also requested a vacation of existing easement as it no longer is necessary to serve the District. A stamped easement and exhibit were received from the Developer on July 9, 2020. A flow study has been completed and is acceptable. The Attorney has prepared a sewer line easement and extension agreement and we are awaiting Developer. An availability letter was provided for each building (5) for submission to the City. The contractor notified MM that they found a MH in the middle of their parcel. Research confirmed this to be a MH on the segment to the East roadway. The solution is that they will cap the main at the property line so if a service is live on the line it will not be affected. The one service on the line does not appear live and we will ultimately verify no connection. Plans were received on January 15, 2021 for review. The Contractor was informed that they will also need to hold a pre-construction meeting before work begins and after plans are reviewed and appear acceptable. Utility submittals were received on January 19, 2021 and are under review. Work has progressed. Comments were received from the submittal and there were issues with the grading, this has been resolved. The Contract estimates that the sanitary work will begin in early May 2021. Coordination with the developer on timing and review of the mainline extension was provided. A list of all required items for conditional approval was conveyed to the Developer on May 13, 2021. MM visited the sight and spoke with the Superintendent on June 2, 2021 reminding them about the need to abandon the center MH and cap the abandoned service line at the property line. MM inspected the air testing on July 9, 2021. Construction continues. Work has picked back up and air testing is being re-tested and connections are being completed. The site passed air testing on September 17, 2021. Outstanding items include: PLS stamped as-built drawings, tracer wire testing, M/M to witness the abandonment of existing lines, and CCTV of the sanitary lines after jetting. Taps should not be sold until conditional acceptance of the sanitary extension. Compaction reports and photos of the abandoned manhole and capped sanitary line still need to be received from the Contractor to initiate conditional acceptance.

UPDATE: None

12599 W 27th Ave – New Dewatering Building – Consolidated Mutual Water

M/M received plans for a new proposed dewatering building on November 15, 2018. M/M received the plumbing plans for a new proposed dewatering building on November 21, 2018. Tap fees appear to be up to date as long as a single service to their treatment and maintenance buildings is ok. Service fees are more difficult to identify. A metering manhole could be installed in the future. Has requested tap application for ¾" service to new solids building. On-going coordination is taking place for flow values contributed over the years without service fees. M/M received interceptor sizing calculations and design drawings for the Consolidated Mutual sanitary service lines on August 19, 2019 and corrected documents were received August 20, 2019. M/M is reviewing. M/M provided review letter for sand interceptor on September 9, 2019. Flow data and lab results were received from REC on July 29, 2021. M/M is in process of evaluating the data to translate the information into a single family equivalent SFE in order for billing to take place. MM has evaluated flows and have a couple alternatives of calculation for the finalizing of SFRE for the facility. This will be coordinated with Consolidated, and a final recommendation made. 2020 and 2021 fees were invoiced and sent to CMW on October 25, 2021. CMW will be added to the District's regular billing and 2022 will be billed in January. Martn/Martin has evaluated the Water Treatment building and will attempt to bring a consensus SFRE value to the Board.

UPDATE: Coordination is on-going and will be complete for March

2419 Ward – Dave Coggeshall (303) 917-5230 (Cell) Or (303) 777-0894 (Office)



Coordination took place as to plan review and ADU requiring an additional tap connection fee was coordinated by District manager.

UPDATE: None

12601 W. 32nd Ave. (Applewood Shopping Center) – New Oil Change Facility

The City received an application for an SDP of this site to become a new oil change facility. An availability letter was sent on September 2, 2021.

UPDATE: None

2259 Kipling St. – 3-Unit Townhome Referral

City of Lakewood sent a referral letter request September 15, 2020. M/M will address following review. The Developer is going to tie into the existing mainline within Kipling and plans are being updated to reflect this change. REC checked depths of MH's to verify if this is feasible. The decision is based on a lack of easement area to the west for a mainline extension. REC created a map showing the depths of the MHs on May 13, 2021. This information was shown to the developer.

UPDATE: None

Miscellaneous

- 2022 Flow Projections were sent to Metro 4/19/21. Metro 2022 budget was received on May 4, 2021.
- 26th and Oak Sanitary: Ongoing conversation about the bike incident has been taking place (Roybal).
- **Lot split requested at 910 Alkire and 13181 9th Ave.**
- **Proposed request to vacate Tract S at 1775 Union St.**

DIAMOND CONTRACTING CORP

18300 WEST HIGHWAY 72
 SUITE 2
 ARVADA, CO 80007
 Telephone 303-456-7666

invoice

INVOICE NO.	INVOICE DATE	PAGE
1003213	03/16/2022	1

Contract Invoice

SOLD TO

Northwest Lakewood Sanitation Dist.
 141 Union Blvd., Suite 150

Lakewood, CO 80228-1898

SHIP TO

Northwest Lakewood Sanitation Dist.
 141 Union Blvd., Suite 150

Lakewood, CO 80228-1898

ACCOUNT NO.	SP	PURCHASE ORDER	SHIP VIA	DATE SHIPPED	TERMS	JOB
NORTHWEST				03/16/2022	30	3171
QTY ORDERED	QTY SHIPPED BACK ORDERED	ITEM DESCRIPTION	UNIT PRICE UNIT	DISC %	TAX SD	EXTENDED PRICE
1.00	1.00	Northwest Lakewood Sanitation Sewer repair at 10531 W. 22nd Pl. Lakewood, CO	14,469.00	0.00		14,469.00
					SALE AMOUNT	14,469.00
					DISCOUNT	0.00
					FREIGHT CHARGE	0.00
					SALES TAX	0.00
					TOTAL	14,469.00

Thank You

Project: Sewer Repair for NW Lakewood Sanitation District

Location: 10531 W 22nd Pl. Lakewood

Description:

Date: 3/11/22, 3/15/22

Description	Quantity	Unit	Equipment		Material/Subs		Labor	
			Unit	Total	Unit	Total	Unit	Total
				\$ -		\$ -		\$ -
Labor				\$ -		\$ -		\$ -
Foreman	13	HR		\$ -		\$ -	72	\$ 936.00
Operator	12.5	HR		\$ -		\$ -	67	\$ 837.50
Operator	12	HR		\$ -		\$ -	67	\$ 804.00
Pipelayer	12	HR		\$ -		\$ -	54	\$ 648.00
Pipelayer	13	HR		\$ -		\$ -	54	\$ 702.00
Laborer	12.5	HR		\$ -		\$ -	48	\$ 600.00
Truck Driver	8	HR		\$ -		\$ -	65	\$ 520.00
Truck Driver	8	HR		\$ -		\$ -	65	\$ 520.00
Truck Driver	12	HR		\$ -		\$ -	65	\$ 780.00
				\$ -		\$ -		\$ -
				\$ -		\$ -		\$ -
Material				\$ -		\$ -		\$ -
				\$ -		\$ -		\$ -
4" SDR 35	5	LF		\$ -	3.98	\$ 19.90		\$ -
4" 45° Bend	1	EA		\$ -	23	\$ 23.00		\$ -
4" 22.5° Bend	1	EA		\$ -	17	\$ 17.00		\$ -
4" Clay to PVC Strongback Furnco	1	EA		\$ -	40	\$ 40.00		\$ -
Concrete	1	Bag		\$ -	8	\$ 8.00		\$ -
Structural Fill	35	TN		\$ -	7.25	\$ 253.75		\$ -
Squeegee	6	TN		\$ -	25.05	\$ 150.30		\$ -
Asphalt	3.5	TN		\$ -	68	\$ 238.00		\$ -
				\$ -		\$ -		\$ -
Martinez Material Testing	1	LS		\$ -	299.5	\$ 299.50		\$ -
				\$ -		\$ -		\$ -
				\$ -		\$ -		\$ -
Equipment				\$ -		\$ -		\$ -
PC 138	9	HR	85	\$ 765.00		\$ -		\$ -
Bobcat	8	HR	45	\$ 360.00		\$ -		\$ -
Dump Truck	20	HR	75	\$ 1,500.00		\$ -		\$ -
Side Dump	8	HR	120	\$ 960.00		\$ -		\$ -
Job Truck	13	HR	50	\$ 650.00		\$ -		\$ -
Small Tools	1	DAY	250	\$ 250.00		\$ -		\$ -
TCS & Truck	6	HR	100	\$ 600.00		\$ -		\$ -
				\$ -		\$ -		\$ -
				\$ -		\$ -		\$ -
Traffic Control Plan	1	EA	250	\$ 250.00		\$ -		\$ -
City of Lakewood Permit	1	EA		\$ -	52	\$ 52.00		\$ -
				\$ -		\$ -		\$ -
				\$ -		\$ -		\$ -
Tax				\$ -		\$ -		\$ -
9%				\$ -		\$ 99.13		\$ -
				\$ -		\$ -		\$ -
Total				\$ 5,335.00		\$ 1,201.00		\$ 6,348.00
Overhead	10%				10%	\$ 120.00	10%	\$ 635.00
						\$ 1,321.00		\$ 6,983.00
Profit	10%				10%	\$ 132.00	10%	\$ 698.00
				\$ 5,335.00		\$ 1,453.00		\$ 7,681.00
Grand Total				\$ 14,469.00				

March 18, 2022

Steve Beck
Northwest Lakewood Sanitation District
141 Union Boulevard, Suite 150
Lakewood, Colorado 80228

Re: Northwest Lakewood Sanitation District – 2021 Sanitary Sewer Improvements
Martin/Martin, Inc. Project No.: 17.0638.C.08

Dear Mr. Beck,

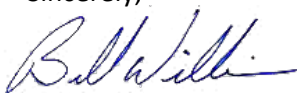
Attached is the Application for Payment Number Four for work completed on the Northwest Lakewood Sanitation District – 2021 Sanitary Sewer Improvements project through March 9, 2022. To date, approximately 51% of the project has been completed including Cured in Place Pipe (CIPP) and point repairs, as detailed in the attached spreadsheet.

This application for payment includes Change Order CO4, which accounts for quantity adjustments needed to complete the project. Bid Item A8 did not require the use of Import Fill, Trench Stabilization, or Concrete Cut-off Walls, and these quantities have been adjusted accordingly. The CIPP lining for Bid Item B52 required additional bypass lining due to unexpected field conditions not shown properly on district mapping. District mapping shows one line flowing into manhole BF-1, but it was discovered in the field that two lines flowed into BF-1. Insituform needed an additional bypass setup to facilitate the other line. Change Order CO4 in the amount of \$18,555.43 reflect the adjustments in this pay application.

Martin/Martin recommends approval of Change Order No. 4 and Application for Payment Number Four, and a check prepared to Insituform Technologies, LLC in the amount of **\$31,706.66**. This amount reflects a retainage of **\$1,668.77** for this pay period, withheld based on 5% of each pay request application as required. The total project retainage is currently \$42,239.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

A handwritten signature in blue ink that reads 'Bill Willis'.

Bill Willis, P.E.
Principal

Cc: Eric Huss – Insituform Technologies, LLC
Alex Fonov – Insituform Technologies, LLC



PAY APPLICATION #4

Project: Northwest Lakewood Sanitation District - 2021 Sanitary Sewer Improvements
Date: March 18, 2022
Job No. 17.0638.C.04
Owner: Northwest Lakewood Sanitation District
Prep. By: KFK
Contractor: Insituform Technologies, LLC
Chkd. By: BPW
For Period: Thru 02.11.2021

Original Contract Price	\$ 1,659,124.00
Additions to Original Contract Price	\$ (6,320.57)
Revised Contract Price	<u>\$ 1,652,803.43</u>
Total Work Completed to Date	\$ 844,799.43
Less Retainage (5% of each pay request of the contract)	\$ 42,239.97
Net Earned	<u>\$ 802,559.46</u>
Less Previous Payments	\$ 770,852.80
Amount Due This Application	<u>\$ 31,706.66</u>

The undersigned Contractor certifies that: the amounts and values contained herein are correct; all work has been performed and/or supplied in accordance with the requirements of the Contract; no part of the Amount Due This Application has been received; title to all work, material, and/or equipment covered by this Application for payment will pass to Owner at time of payment, free and clear of all liens, claims, and encumbrances.

Contractor: Insituform Technologies, LLC

By: (See Attached Invoice) Date: 03.18.2022

This Application for Payment meets the requirements of the Contract and payment of the Amount Due is recommended.

MARTIN/MARTIN, Inc.

By:  Date: 03.18.2022



CHANGE ORDER #4

Project: Northwest Lakewood Sanitation District -
2021 Sanitary Sewer Improvements
Owner: Northwest Lakewood Sanitation District
Contractor: Insituform Technologies, LLC

Date: March 14, 2022
Job No. 17.0638.C.08
Prep. By: KFK
Chkd. By: BLT/BW

Nature of Change
(Reason, Item, Units)

Price Change
(Add/Deduct)

Time Change
(Add/Deduct)


See Attachment "A"

These Changes result in the following adjustment of Contract price and Contract Time:

Contract Price Prior to This Change Order	\$1,657,809.00
Net Increase Resulting from this Change Order	(\$6,320.57)
Current Contract Price Including this Change Order	\$1,652,803.43

The above changes are approved:

MARTIN/MARTIN, INC.

BY: 

Date: March 18, 2022

The above changes are accepted:

Contractor:

BY: _____

Date: _____

Change Order Number 4

Attachment "A"

Nature of Change (Reason, Item, Units)
(Add/Deduct)

Price Change

Bid Schedule A & B

1. A8c. Deduct 5 LF Import Fill @ \$267/LF (0 LF Total). Repair completed without import fill.	Sub-Total	(\$1,335.00)
2. A8d. Deduct 5 LF Trench Stabilization @ \$251/ LF (0 LF Total). Repair completed without trench stabilization.	Sub-Total	(\$1,255.00)
3. A8e. Deduct 1 EA Cutoff Wall @ \$1,005.00 EA (0 EA Total). Repair completed without cutoff wall.	Sub-Total	(\$1,005.00)
4. B52c: Add 1 LS additional bypass pumping @ \$22,150.43/LS (1 LS Total). Field conditions varied from district mapping. Additional sanitary line needed bypass pumping to facilitate lining.	Sub-Total	\$22,150.43
5. Adjustment for Typo on Items A2d, A4c, A7d, A10c and A11c on Change Order 3. Deduct amount for each item on CO 3 was (\$1,355.00), should have been (\$1,335.00). Difference of \$20.00 x 5 ea = \$100.00.	Sub-Total	\$100.00

Sub-Total Schedule A & B: \$18,655.43

Total Change Order 4 Adjustment:	\$18,655.43
Total Change Order 3 Adjustment:	(\$23,661.00)
Total Change Order 2 Adjustment:	(\$32,594.00)
Total Change Order 1 Adjustment:	\$31,279.00
Original Contract Amount:	\$1,659,124.00
Revised Total Contract Price:	\$1,652,803.43

MARTIN/MARTIN

PAY APPLICATION 04

PROJ. NAME: NWLSD 2021 SANITARY SEWER IMPROVEMENTS
 FOR PERIOD: Through 03.09.2022
 OWNER: NORTHWEST LAKEWOOD SANITATION DISTRICT
 ENGINEER: MARTIN/MARTIN, INC.
 CONTRACTOR: INSITUFORM TECHNOLOGIES

Date: 03.18.2022
 Job No.: 17.0638.C.08
 Prep. By: BLT/ KFK
 Chk'd By: BW/ BLT

Bid Item	Description	Unit	Original Quantity	C.O. NO.	Revised Qty.	Unit Price	Totals		Total Previous			This Estimate			Total to Date		
							Original	Revised	Qty.	%	Amount	Qty.	%	Amount	Qty.	%	Amount
Bid Schedule A (Point Repairs)																	
A1	AD-1-1 to AD-1, W 31st PL - 8" Line, 10' Point Repair																
A1a	Point Repair: 167 LF to 177 LF (1 Service)	LF	10			\$ 909.00	\$ 9,090.00	\$ 9,090.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A1b	Remove/Replace Asphalt Pavement	LS	1			\$ 2,138.00	\$ 2,138.00	\$ 2,138.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A1c	Import Fill (trench width, if required)	LF	10			\$ 267.00	\$ 2,670.00	\$ 2,670.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A1d	Trench Stabilization (if required)	LF	10			\$ 251.00	\$ 2,510.00	\$ 2,510.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A1e	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A1f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A1g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A2	BOD-2-2B to BOD-2-2A, Winfield PL - 8" Line, (2) 5' Point Repairs																
A2a	Point Repair: 83 LF to 88 LF (0 Services)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00	5	100%	\$ 4,275.00		0%	\$ -	5	100%	\$ 4,275.00
A2b	Point Repair: 53 LF to 58 LF (0 Services)	LF	5			\$ 748.00	\$ 3,740.00	\$ 3,740.00	5	100%	\$ 3,740.00		0%	\$ -	5	100%	\$ 3,740.00
A2c	Remove/Replace Asphalt Pavement	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00	1	100%	\$ 2,673.00		0%	\$ -	1	100%	\$ 2,673.00
A2d	Import Fill (trench width, if required)	LF	5	3	0	\$ 267.00	\$ 1,335.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A2e	Trench Stabilization (if required)	LF	5	3	0	\$ 251.00	\$ 1,255.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A2f	Cutoff Wall (if required)	EA	1	3	0	\$ 1,005.00	\$ 1,005.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A2g	Bypass Pumping	LS	1			\$ 3,742.00	\$ 3,742.00	\$ 3,742.00	1	100%	\$ 3,742.00		0%	\$ -	1	100%	\$ 3,742.00
A2h	Traffic Control	LS	1			\$ 3,742.00	\$ 3,742.00	\$ 3,742.00	1	100%	\$ 3,742.00		0%	\$ -	1	100%	\$ 3,742.00
A3	A-56A-4 to A-56A-3, Skyline Dr - 8" Line, 5' Point Repair																
A3a	Point Repair: 21 LF to 26 LF (0 Services)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A3b	Remove/Replace Asphalt Pavement	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A3c	Import Fill (trench width, if required)	LF	5			\$ 267.00	\$ 1,335.00	\$ 1,335.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A3d	Trench Stabilization (if required)	LF	5			\$ 251.00	\$ 1,255.00	\$ 1,255.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A3e	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A3f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A3g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A4	BE-2 to BE-1 Union St - 8" Line, 5' Point Repair																
A4a	Point Repair: 56 LF to 61 LF (0 Services)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00	5	100%	\$ 4,275.00		0%	\$ -	5	100%	\$ 4,275.00
A4b	Remove/Replace Asphalt Pavement	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00	1	100%	\$ 1,604.00		0%	\$ -	1	100%	\$ 1,604.00
A4c	Import Fill (trench width, if required)	LF	5	3	0	\$ 267.00	\$ 1,335.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A4d	Trench Stabilization (if required)	LF	5	3	0	\$ 251.00	\$ 1,255.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A4e	Cutoff Wall (if required)	EA	1	3	0	\$ 1,005.00	\$ 1,005.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A4f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00	1	100%	\$ 2,673.00		0%	\$ -	1	100%	\$ 2,673.00
A4g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00	1	100%	\$ 2,673.00		0%	\$ -	1	100%	\$ 2,673.00
A5	AB-10-6-4A to AB-10-6-3A, Taft Ct - 8" Line, 5' Point Repair																
A5a	Point Repair: 23 LF to 28 LF (0 Service)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A5b	Remove/Replace Asphalt Pavement	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A5c	Import Fill (trench width, if required)	LF	5			\$ 267.00	\$ 1,335.00	\$ 1,335.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A5d	Trench Stabilization (if required)	LF	5			\$ 251.00	\$ 1,255.00	\$ 1,255.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A5e	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A5f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A5g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A6	AC-1 to A-30, W32nd Ave - 8" Line, 5' Point Repair																
A6a	Point Repair: 392 LF to 397 LF (0 Service)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A6b	Remove/Replace Asphalt Pavement	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A6c	Import Fill (trench width, if required)	LF	5			\$ 267.00	\$ 1,335.00	\$ 1,335.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A6d	Trench Stabilization (if required)	LF	5			\$ 251.00	\$ 1,255.00	\$ 1,255.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A6e	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A6f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A6g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A7	BF-18-2 to BF-18-1, W33rd Pl - 8" Line, 5' Point Repair																
A7a	Point Repair: 18 LF to 23 LF (0 Services)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00	5	100%	\$ 4,275.00		0%	\$ -	5	100%	\$ 4,275.00
A7b	Remove/Replace Asphalt Pavement	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00	1	100%	\$ 1,604.00		0%	\$ -	1	100%	\$ 1,604.00
A7c	Remove/Replace Landscaping	LS	1	3	0	\$ 2,673.00	\$ 2,673.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A7d	Import Fill (trench width, if required)	LF	5	3	0	\$ 267.00	\$ 1,335.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A7e	Trench Stabilization (if required)	LF	5	3	0	\$ 251.00	\$ 1,255.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A7f	Cutoff Wall (if required)	EA	1	3	0	\$ 1,005.00	\$ 1,005.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A7g	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00	1	100%	\$ 2,673.00		0%	\$ -	1	100%	\$ 2,673.00
A7h	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00	1	100%	\$ 2,673.00		0%	\$ -	1	100%	\$ 2,673.00
A8	BG-3A-LH to BG-3A, Urban Ct - 8" Line, 5' Point Repair																
A8a	Point Repair: 105 LF to 110 LF (0 Service)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00		0%	\$ -	5	100%	\$ 4,275.00	5	100%	\$ 4,275.00
A8b	Remove/Replace Asphalt Pavement	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00		0%	\$ -	1	100%	\$ 1,604.00	1	100%	\$ 1,604.00
A8c	Import Fill (trench width, if required)	LF	5	4	0	\$ 267.00	\$ 1,335.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A8d	Trench Stabilization (if required)	LF	5	4	0	\$ 251.00	\$ 1,255.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A8e	Cutoff Wall (if required)	EA	1	4	0	\$ 1,005.00	\$ 1,005.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A8f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -	1	100%	\$ 2,673.00	1	100%	\$ 2,673.00
A8g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -	1	100%	\$ 2,673.00	1	100%	\$ 2,673.00
A9	C-3B-2-2 to C-3B-2-1, W 28th Pl - 8" Line, 5' Point Repair																
A9a	Point Repair: 91 LF to 96 LF (0 Services)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A9b	Remove/Replace Asphalt Pavement	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A9c	Import Fill (trench width, if required)	LF	5			\$ 267.00	\$ 1,335.00	\$ 1,335.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A9d	Trench Stabilization (if required)	LF	5			\$ 251.00	\$ 1,255.00	\$ 1,255.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A9e	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A9f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -

MARTIN/MARTIN

PAY APPLICATION 04

PROJ. NAME: NWLSD 2021 SANITARY SEWER IMPROVEMENTS
 FOR PERIOD: Through 03.09.2022
 OWNER: NORTHWEST LAKEWOOD SANITATION DISTRICT
 ENGINEER: MARTIN/MARTIN, INC.
 CONTRACTOR: INSITUFORM TECHNOLOGIES

Date: 03.18.2022
 Job No.: 17.0638.C.08
 Prep. By: BLT/ KFK
 Chk'd By: BW/ BLT

Bid Item	Description	Unit	Original Quantity	C.O. NO.	Revised Qty.	Unit Price	Totals		Total Previous			This Estimate			Total to Date		
							Original	Revised	Qty.	%	Amount	Qty.	%	Amount	Qty.	%	Amount
A9g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A10	Z-7 to Z-6, Alkire St - 8" Line, 5' Point Repair																
A10a	Point Repair: 83 LF to 88 LF (0 Services)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00	5	100%	\$ 4,275.00		0%	\$ -	5	100%	\$ 4,275.00
A10b	Remove/Replace Asphalt Pavement	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00	1	100%	\$ 1,604.00		0%	\$ -	1	100%	\$ 1,604.00
A10c	Import Fill (trench width, if required)	LF	5	3	0	\$ 267.00	\$ 1,335.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A10d	Trench Stabilization (if required)	LF	5	3	0	\$ 251.00	\$ 1,255.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A10e	Cutoff Wall (if required)	EA	1	3	0	\$ 1,005.00	\$ 1,005.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A10f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00	1	100%	\$ 2,673.00		0%	\$ -	1	100%	\$ 2,673.00
A10g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00	1	100%	\$ 2,673.00		0%	\$ -	1	100%	\$ 2,673.00
A11	ZD-2-1 to ZD-2, W 22nd PI - 8" Line, 5' Point Repair																
A11a	Point Repair: 52 LF to 57 LF (0 Services)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00	5	100%	\$ 4,275.00		0%	\$ -	5	100%	\$ 4,275.00
A11b	Remove/Replace Asphalt Pavement	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00	1	100%	\$ 1,604.00		0%	\$ -	1	100%	\$ 1,604.00
A11c	Import Fill (trench width, if required)	LF	5	3	0	\$ 267.00	\$ 1,335.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A11d	Trench Stabilization (if required)	LF	5	3	0	\$ 251.00	\$ 1,255.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A11e	Cutoff Wall (if required)	EA	1	3	0	\$ 1,005.00	\$ 1,005.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
A11f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00	1	100%	\$ 2,673.00		0%	\$ -	1	100%	\$ 2,673.00
A11g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00	1	100%	\$ 2,673.00		0%	\$ -	1	100%	\$ 2,673.00
A12	EA-4A-1 to EA-4A, W 22nd PI - 8" Line, 5' Point Repair																
A12a	Point Repair: 204 LF to 209 LF (Service)	LF	5			\$ 909.00	\$ 4,545.00	\$ 4,545.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A12b	Remove/Replace Asphalt Pavement	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A12c	Import Fill (trench width, if required)	LF	5			\$ 267.00	\$ 1,335.00	\$ 1,335.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A12d	Trench Stabilization (if required)	LF	5			\$ 251.00	\$ 1,255.00	\$ 1,255.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A12e	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A12f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A12g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A13	E-8A-1 to E-8A, Easement - 8" Line, 5' Point Repair																
A13a	Point Repair: 29 LF to 34 LF (0 Services)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A13b	Remove/Replace Asphalt Pavement	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A13c	Import Fill (trench width, if required)	LF	5			\$ 267.00	\$ 1,335.00	\$ 1,335.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A13d	Trench Stabilization (if required)	LF	5			\$ 251.00	\$ 1,255.00	\$ 1,255.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A13e	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A13f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A13g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A14	AB-11-2 to AB-11-1, W 28th Ave - 8" Line, 5' Point Repair																
A14a	Point Repair: 59 LF to 64 LF (0 Services)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A14b	Remove/Replace Asphalt Pavement	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A14c	Import Fill (trench width, if required)	LF	5			\$ 267.00	\$ 1,335.00	\$ 1,335.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A14d	Trench Stabilization (if required)	LF	5			\$ 251.00	\$ 1,255.00	\$ 1,255.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A14e	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A14f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A14g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A15	ACA-1 to AC-2 - Simms St - 8" Line, 20' Point Repair																
A15a	Point Repair: 25 LF to 45 LF (0 Services)	LF	20			\$ 748.00	\$ 14,960.00	\$ 14,960.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A15b	Remove/Replace Asphalt Pavement	LS	1			\$ 3,742.00	\$ 3,742.00	\$ 3,742.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A15c	Import Fill (trench width, if required)	LF	20			\$ 267.00	\$ 5,340.00	\$ 5,340.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A15d	Trench Stabilization (if required)	LF	20			\$ 251.00	\$ 5,020.00	\$ 5,020.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A15e	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A15f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A15g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A16	B-1 to A-27, Easement - 12" Line, (2) 5' Point Repairs																
A16a	Point Repair:350 LF to 355 LF (0 Service)	LF	5			\$ 962.00	\$ 4,810.00	\$ 4,810.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A16b	Point Repair: 245 LF to 250 LF (0 Service)	LF	5			\$ 962.00	\$ 4,810.00	\$ 4,810.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A16c	Remove/Replace Landscaping	LS	1			\$ 3,207.00	\$ 3,207.00	\$ 3,207.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A16d	Import Fill (trench width, if required)	LF	5			\$ 267.00	\$ 1,335.00	\$ 1,335.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A16e	Trench Stabilization (if required)	LF	5			\$ 251.00	\$ 1,255.00	\$ 1,255.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A16f	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A16g	Bypass Pumping	LS	1			\$ 5,346.00	\$ 5,346.00	\$ 5,346.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A17	B-1A to B-1, Easement - 12" Line, 20' Point Repair																
A17a	Point Repair: 304 LF to 324 LF (0 Service)	LF	20			\$ 855.00	\$ 17,100.00	\$ 17,100.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A17b	Remove/Replace Asphalt Pavement	LS	1			\$ 3,742.00	\$ 3,742.00	\$ 3,742.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A17d	Remove/Replace Landscaping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A17c	Import Fill (trench width, if required)	LF	5			\$ 267.00	\$ 1,335.00	\$ 1,335.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A17d	Trench Stabilization (if required)	LF	5			\$ 251.00	\$ 1,255.00	\$ 1,255.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A17e	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A17f	Bypass Pumping	LS	1			\$ 5,346.00	\$ 5,346.00	\$ 5,346.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A17g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A18	BF-16A to BF-16, Youngsfield Service Rd - 12" Line, 10' Point Repair																
A18a	Point Repair: 16 LF to 26 LF (0 Services)	LF	10			\$ 962.00	\$ 9,620.00	\$ 9,620.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A18b	Remove/Replace Asphalt Pavement	LS	1			\$ 2,138.00	\$ 2,138.00	\$ 2,138.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A18c	Import Fill (trench width, if required)	LF	10			\$ 267.00	\$ 2,670.00	\$ 2,670.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A18d	Trench Stabilization (if required)	LF	10			\$ 251.00	\$ 2,510.00	\$ 2,510.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A18e	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A18f	Bypass Pumping	LS	1			\$ 5,346.00	\$ 5,346.00	\$ 5,346.00		0%	\$ -		0%	\$ -	0	0%	\$ -
A18g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -

MARTIN/MARTIN

PAY APPLICATION 04

PROJ. NAME: NWLSD 2021 SANITARY SEWER IMPROVEMENTS
 FOR PERIOD: Through 03.09.2022
 OWNER: NORTHWEST LAKEWOOD SANITATION DISTRICT
 ENGINEER: MARTIN/MARTIN, INC.
 CONTRACTOR: INSITUFORM TECHNOLOGIES

Date: 03.18.2022
 Job No.: 17.0638.C.08
 Prep. By: BLT/ KFK
 Chk'd By: BW/ BLT

Bid Item	Description	Unit	Original Quantity	C.O. NO.	Revised Qty.	Unit Price	Totals		Total Previous			This Estimate			Total to Date			
							Original	Revised	Qty.	%	Amount	Qty.	%	Amount	Qty.	%	Amount	
A19	BG-2A to BG-2, W 35th Ave - 8" Line, 5' Point Repair																	
A19a	Point Repair: 205 LF to 210 LF (1 Service)	LF	5			\$ 909.00	\$ 4,545.00	\$ 4,545.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A19b	Remove/Replace Asphalt Pavement	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A19c	Import Fill (trench width, if required)	LF	5			\$ 267.00	\$ 1,335.00	\$ 1,335.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A19d	Trench Stabilization (if required)	LF	5			\$ 251.00	\$ 1,255.00	\$ 1,255.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A19e	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A19f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A19g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A20	C-3A-1 to C-3A, W 28th Ave - 8" Line, (2) 5' Point Repairs																	
A20a	Point Repair: 4 LF to 9 LF (1 Service)	LF	5			\$ 909.00	\$ 4,545.00	\$ 4,545.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A20b	Point Repair: 237 LF to 242 LF (0 Service)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A20c	Remove/Replace Asphalt Pavement	LS	1			\$ 3,207.00	\$ 3,207.00	\$ 3,207.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A20d	Import Fill (trench width, if required)	LF	5			\$ 267.00	\$ 1,335.00	\$ 1,335.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A20e	Trench Stabilization (if required)	LF	5			\$ 251.00	\$ 1,255.00	\$ 1,255.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A20f	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A20g	Bypass Pumping	LS	1			\$ 3,742.00	\$ 3,742.00	\$ 3,742.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A20h	Traffic Control	LS	1			\$ 3,742.00	\$ 3,742.00	\$ 3,742.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A21	C-9-1 to C-9, Queen St, 8" Line, 5' Point Repair																	
A21a	Point Repair: 90 LF to 95 LF (0 Services)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A21b	Remove/Replace Asphalt Pavement	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A21c	Import Fill (trench width, if required)	LF	5			\$ 267.00	\$ 1,335.00	\$ 1,335.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A21d	Trench Stabilization (if required)	LF	5			\$ 251.00	\$ 1,255.00	\$ 1,255.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A21e	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A21f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A21g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A22	C-12-2 to C-12D, Simms St - 8" Line, 5' Point Repair																	
A22a	Point Repair: 63 LF to 68 LF (0 Service)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A22b	Remove/Replace Asphalt Pavement	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A22c	Import Fill (trench width, if required)	LF	5			\$ 267.00	\$ 1,335.00	\$ 1,335.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A22d	Trench Stabilization (if required)	LF	5			\$ 251.00	\$ 1,255.00	\$ 1,255.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A22e	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A22f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A22g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A23	Z-7-3 to Z-7-2, Alkire St - 8" Line, 5' Point Repair																	
A23a	Point Repair: 246 LF to 251 LF (0 Services)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00	5	100%	\$ 4,275.00		0%	\$ -	5	100%	\$ 4,275.00	
A23b	Remove/Replace Asphalt Pavement	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00	1	100%	\$ 1,604.00		0%	\$ -	1	100%	\$ 1,604.00	
A23c	Import Fill (trench width, if required)	LF	5	3	8	\$ 267.00	\$ 1,335.00	\$ 2,136.00	8	100%	\$ 2,136.00		0%	\$ -	8.0	100%	\$ 2,136.00	
A23d	Trench Stabilization (if required)	LF	5	2	0	\$ 251.00	\$ 1,255.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -	
A23e	Cutoff Wall (if required)	EA	1	2	0	\$ 1,005.00	\$ 1,005.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -	
A23f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00	1	100%	\$ 2,673.00		0%	\$ -	1	100%	\$ 2,673.00	
A23g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00	1	100%	\$ 2,673.00		0%	\$ -	1	100%	\$ 2,673.00	
A24	ZC-13 to ZC-12, Braun Dr - 8" Line, 5' Point Repair																	
A24a	Point Repair: 2 LF to 7 LF (0 Services)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00	5	100%	\$ 4,275.00		0%	\$ -	5	100%	\$ 4,275.00	
A24b	Remove/Replace Asphalt Pavement	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00	1	100%	\$ 1,604.00		0%	\$ -	1	100%	\$ 1,604.00	
A24c	Import Fill (trench width, if required)	LF	5	3	8	\$ 267.00	\$ 1,335.00	\$ 2,136.00	8	100%	\$ 2,136.00		0%	\$ -	8.0	100%	\$ 2,136.00	
A24d	Trench Stabilization (if required)	LF	5	2	0	\$ 251.00	\$ 1,255.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -	
A24e	Cutoff Wall (if required)	EA	1	2	0	\$ 1,005.00	\$ 1,005.00	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -	
A24f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00	1	100%	\$ 2,673.00		0%	\$ -	1	100%	\$ 2,673.00	
A24g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00	1	100%	\$ 2,673.00		0%	\$ -	1	100%	\$ 2,673.00	
A25	Z-3 to Z-2, Alkire St - 8" Line, (2) 5' Point Repairs																	
A25a	Point Repair: 332 LF to 337 LF (0 Services)	LF	5	2	0	\$ 855.00	\$ 4,275.00	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -	
A25b	Remove/Replace Asphalt Pavement	LS	1	2	0	\$ 3,207.00	\$ 3,207.00	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -	
A25c	Import Fill (trench width, if required)	LF	5	2	0	\$ 267.00	\$ 1,335.00	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -	
A25d	Trench Stabilization (if required)	LF	5	2	0	\$ 251.00	\$ 1,255.00	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -	
A25e	Cutoff Wall (if required)	EA	1	2	0	\$ 1,005.00	\$ 1,005.00	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -	
A25f	Bypass Pumping	LS	1	2	0	\$ 3,742.00	\$ 3,742.00	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -	
A25g	Traffic Control	LS	1	2	0	\$ 3,742.00	\$ 3,742.00	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -	
A26	B-11R-7-2-1 to B-11R-7-2, Easement - 6" Line, 10' Point Repair																	
A26a	Point Repair: 90 LF to 100 LF (0 Services)	LF	10			\$ 802.00	\$ 8,020.00	\$ 8,020.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A26b	Remove/Replace Asphalt Pavement	LS	1			\$ 2,138.00	\$ 2,138.00	\$ 2,138.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A26c	Remove/Replace Landscaping	LS	1			\$ 2,138.00	\$ 2,138.00	\$ 2,138.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A26d	Import Fill (trench width, if required)	LF	10			\$ 267.00	\$ 2,670.00	\$ 2,670.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A26e	Trench Stabilization (if required)	LF	10			\$ 251.00	\$ 2,510.00	\$ 2,510.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A26f	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A26g	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A26h	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A27	AG-3 to AG-2, Easement - 8" Line, 20' Point Repair																	
A27a	Point Repair: 130 LF to 150 LF (0 Services)	LF	20			\$ 748.00	\$ 14,960.00	\$ 14,960.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A27b	Remove/Replace Asphalt Pavement	LS	1			\$ 3,742.00	\$ 3,742.00	\$ 3,742.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A27c	Import Fill (trench width, if required)	LF	20			\$ 267.00	\$ 5,340.00	\$ 5,340.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A27d	Trench Stabilization (if required)	LF	20			\$ 251.00	\$ 5,020.00	\$ 5,020.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A27e	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A27f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A27g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -	

MARTIN/MARTIN

PAY APPLICATION 04

PROJ. NAME:	NWLS D 2021 SANITARY SEWER IMPROVEMENTS
FOR PERIOD:	Through 03.09.2022
OWNER:	NORTHWEST LAKEWOOD SANITATION DISTRICT
ENGINEER:	MARTIN/MARTIN, INC.
CONTRACTOR:	INSITUFORM TECHNOLOGIES

Date:	03.18.2022
Job No.:	17.0638.C.08
Prep. By:	BLT/ KFK
Chk'd By:	BW/ BLT

Bid Item	Description	Unit	Original Quantity	C.O. NO.	Revised Qty.	Unit Price	Totals		Total Previous			This Estimate			Total to Date			
							Original	Revised	Qty.	%	Amount	Qty.	%	Amount	Qty.	%	Amount	
A28	A-56A-2 to A-56A-1, Easement/ Paramount Pkwy - 8" Line, 5' Point Repair																	
A28a	Point Repair: 5 LF to 10 LF (0 Service)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A28b	Remove/Replace Asphalt Pavement	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A28c	Remove/Replace Landscaping	LS	1			\$ 2,138.00	\$ 2,138.00	\$ 2,138.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A28d	Import Fill (trench width, if required)	LF	5			\$ 267.00	\$ 1,335.00	\$ 1,335.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A28e	Trench Stabilization (if required)	LF	5			\$ 251.00	\$ 1,255.00	\$ 1,255.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A28f	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A28g	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A28h	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A29	BH-1-6 to BH-1-5, Winfield Dr - 12" Line, 10' Point Repair																	
A29a	Point Repair: 196 LF to 206 LF (0 Service)	LF	10			\$ 962.00	\$ 9,620.00	\$ 9,620.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A29b	Remove/Replace Asphalt Pavement	LS	1			\$ 2,138.00	\$ 2,138.00	\$ 2,138.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A29c	Import Fill (trench width, if required)	LF	10			\$ 267.00	\$ 2,670.00	\$ 2,670.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A29d	Trench Stabilization (if required)	LF	10			\$ 251.00	\$ 2,510.00	\$ 2,510.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A29e	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A29f	Bypass Pumping	LS	1			\$ 5,346.00	\$ 5,346.00	\$ 5,346.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A29g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A30	BP-1A to BP-1, Easement - 8" Line, 5' Point Repair																	
A30a	Point Repair: 3 LF to 8 LF (0 Services)	LF	5			\$ 855.00	\$ 4,275.00	\$ 4,275.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A30b	Remove/Replace Landscaping	LS	1			\$ 1,604.00	\$ 1,604.00	\$ 1,604.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A30c	Import Fill (trench width, if required)	LF	5			\$ 267.00	\$ 1,335.00	\$ 1,335.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A30d	Trench Stabilization (if required)	LF	5			\$ 251.00	\$ 1,255.00	\$ 1,255.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A30e	Cutoff Wall (if required)	EA	1			\$ 1,005.00	\$ 1,005.00	\$ 1,005.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A30f	Bypass Pumping	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
A30g	Traffic Control	LS	1			\$ 2,673.00	\$ 2,673.00	\$ 2,673.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
	Sub-Total A						\$ 576,598.00	\$ 530,876.00		0%	\$ 89,794.00		2%	\$ 11,225.00		19%	\$ 101,019.00	
	Bid Schedule B (Full Linings)																	
B1	B-11R-32-1A to B-11R-32-1, Union Way - 8" Line																	
B1a.	Full Lining - 220 LF (3 Services)	LF	220			\$ 40.00	\$ 8,800.00	\$ 8,800.00	220	100%	\$ 8,800.00		0%	\$ -	220	100%	\$ 8,800.00	
B1b.	Service Reconnection	EA	3			\$ 122.00	\$ 366.00	\$ 366.00	3	100%	\$ 366.00		0%	\$ -	3	100%	\$ 366.00	
B2	AP-1 to A-51, W 30th Ave - 8" Line																	
B2a.	Full Lining - 324 LF (8 Services)	LF	324			\$ 34.00	\$ 11,016.00	\$ 11,016.00	324	100%	\$ 11,016.00		0%	\$ -	324	100%	\$ 11,016.00	
B2b.	Service Reconnection	EA	8			\$ 94.00	\$ 752.00	\$ 752.00	8	100%	\$ 752.00		0%	\$ -	8	100%	\$ 752.00	
B3	B-94 to B-93, Zinna St - 8" Line																	
B3a.	Full Lining - 247 LF (5 Services)	LF	247			\$ 38.00	\$ 9,386.00	\$ 9,386.00	247	100%	\$ 9,386.00		0%	\$ -	247	100%	\$ 9,386.00	
B3b.	Service Reconnection	EA	5			\$ 103.00	\$ 515.00	\$ 515.00	5	100%	\$ 515.00		0%	\$ -	5	100%	\$ 515.00	
B4	BW-1A-4 to BW-1A-3, Xenophon St - 8" Line																	
B4a.	Full Lining - 303 LF (4 Services)	LF	303			\$ 35.00	\$ 10,605.00	\$ 10,605.00	303	100%	\$ 10,605.00		0%	\$ -	303	100%	\$ 10,605.00	
B4b.	Service Reconnection	EA	4			\$ 112.00	\$ 448.00	\$ 448.00	4	100%	\$ 448.00		0%	\$ -	4	100%	\$ 448.00	
B5	DELETED																	
B5a.	DELETED	LF	0			\$ -	\$ -	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -	
B5b.	DELETED	EA	0			\$ -	\$ -	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -	
B6	BOA-5-1 to BOA-5, Zinnia St - 8" Line																	
B6a.	Full Lining - 300 LF (5 Services)	LF	300			\$ 35.00	\$ 10,500.00	\$ 10,500.00	300	100%	\$ 10,500.00		0%	\$ -	300	100%	\$ 10,500.00	
B6b.	Service Reconnection	EA	5			\$ 105.00	\$ 525.00	\$ 525.00	5	100%	\$ 525.00		0%	\$ -	5	100%	\$ 525.00	
B7	DELETED																	
B7a.	DELETED	LF	0			\$ -	\$ -	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -	
B7b.	DELETED	EA	0			\$ -	\$ -	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -	
B8	DELETED																	
B8a.	DELETED	LF	0			\$ -	\$ -	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -	
B8b.	DELETED	EA	0			\$ -	\$ -	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -	
B9	RO-11A-3A to RO-11A-3, Easement/ Nelson Dr - 24" Line																	
B9a.	Full Lining - 378 LF (2 Services)	LF	378	1	515	\$ 142.00	\$ 53,676.00	\$ 73,130.00	515	100%	\$ 73,130.00		0%	\$ -	515	100%	\$ 73,130.00	
B9b.	Service Reconnection	EA	2			\$ 322.00	\$ 644.00	\$ 644.00	2	100%	\$ 644.00		0%	\$ -	2	100%	\$ 644.00	
B10	RO-11A-3A to RO-11A-4, Easement/ Nelson Dr - 24" Line																	
B10a.	Full Lining - 425 LF (2 Services)	LF	425	1	492	\$ 138.00	\$ 58,650.00	\$ 67,896.00	492	100%	\$ 67,896.00		0%	\$ -	492	100%	\$ 67,896.00	
B10b.	Service Reconnection	EA	2			\$ 331.00	\$ 662.00	\$ 662.00	2	100%	\$ 662.00		0%	\$ -	2	100%	\$ 662.00	
B11	JA-2 to JA-1, Willow Lane - 8" Line																	
B11a.	Full Lining - 116 LF (3 Services)	LF	116			\$ 56.00	\$ 6,496.00	\$ 6,496.00	116	100%	\$ 6,496.00		0%	\$ -	116	100%	\$ 6,496.00	
B11b.	Service Reconnection	EA	3			\$ 117.00	\$ 351.00	\$ 351.00	3	100%	\$ 351.00		0%	\$ -	3	100%	\$ 351.00	
B12	GF-13 to GF-12, Linda Vista Dr - 8" Line																	
B12a.	Full Lining - 402 LF (6 Services)	LF	402			\$ 32.00	\$ 12,864.00	\$ 12,864.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
B12b.	Service Reconnection	EA	6			\$ 102.00	\$ 612.00	\$ 612.00		0%	\$ -		0%	\$ -	0	0%	\$ -	
B13	DELETED																	
B13a.	DELETED	LF	0			\$ -	\$ -	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -	
B13b.	DELETED	EA	0			\$ -	\$ -	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -	
B14	A-28 to A-27, Easement - 12" Line																	
B14a.	Full Lining - 396 LF (2 Services)	LF	396			\$ 52.00	\$ 20,592.00	\$ 20,592.00	396	100%	\$ 20,592.00		0%	\$ -	396	100%	\$ 20,592.00	
B14b.	Service Reconnection	EA	2			\$ 241.00	\$ 482.00	\$ 482.00	2	100%	\$ 482.00		0%	\$ -	2	100%	\$ 482.00	
B15	AB-3 to AB-2, West 26th Avenue Easement - 8" Line																	
B15a.	Full Lining - 131 LF (2 Services)	LF	131			\$ 53.00	\$ 6,943.00	\$ 6,943.00	131	100%	\$ 6,943.00		0%	\$ -	131	100%	\$ 6,943.00	
B15b.	Service Reconnection	EA	2			\$ 140.00	\$ 280.00	\$ 280.00	2	100%	\$ 280.00		0%	\$ -	2	100%	\$ 280.00	
B16	AB-7A-2 to AB-7A-1, W 28th Pl - 8" Line																	

MARTIN/MARTIN

PAY APPLICATION 04

PROJ. NAME: NWLSD 2021 SANITARY SEWER IMPROVEMENTS	Date: 03.18.2022
FOR PERIOD: Through 03.09.2022	Job No.: 17.0638.C.08
OWNER: NORTHWEST LAKEWOOD SANITATION DISTRICT	Prep. By: BLT/ KFK
ENGINEER: MARTIN/MARTIN, INC.	Chk'd By: BW/ BLT
CONTRACTOR: INSITUFORM TECHNOLOGIES	

Bid Item	Description	Unit	Original Quantity	C.O. NO.	Revised Qty.	Unit Price	Totals		Total Previous			This Estimate			Total to Date		
							Original	Revised	Qty.	%	Amount	Qty.	%	Amount	Qty.	%	Amount
B16a.	Full Lining - 334 LF (7 Services)	LF	334	2	378	\$ 34.00	\$ 11,356.00	\$ 12,852.00	378	100%	\$ 12,852.00		0%	\$ -	378	100%	\$ 12,852.00
B16b.	Service Reconnection	EA	7	2	8	\$ 97.00	\$ 679.00	\$ 776.00	8	100%	\$ 776.00		0%	\$ -	8	100%	\$ 776.00
B17	AB-10 to AB-9, Robb Cir - 8" Line																
B17a.	Full Lining - 294 LF (5 Services)	LF	294			\$ 35.00	\$ 10,290.00	\$ 10,290.00	294	100%	\$ 10,290.00		0%	\$ -	294	100%	\$ 10,290.00
B17b.	Service Reconnection	EA	5			\$ 105.00	\$ 525.00	\$ 525.00	5	100%	\$ 525.00		0%	\$ -	5	100%	\$ 525.00
B18	AB-10-5 to AB-10-4, 28th PI - 8" Line																
B18a.	Full Lining - 66 LF (0 Services)	LF	66	2	68	\$ 84.00	\$ 5,544.00	\$ 5,712.00	68	100%	\$ 5,712.00		0%	\$ -	68	100%	\$ 5,712.00
B18b.	Service Reconnection	EA	0			\$ -	\$ -	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
B19	AB-10-6-1 to AB-10-6, Applewood Knolls Dr - 8" Line																
B19a.	Full Lining - 201 LF (2 Services)	LF	201			\$ 41.00	\$ 8,241.00	\$ 8,241.00	201	100%	\$ 8,241.00		0%	\$ -	201	100%	\$ 8,241.00
B19b.	Service Reconnection	EA	2			\$ 144.00	\$ 288.00	\$ 288.00	2	100%	\$ 288.00		0%	\$ -	2	100%	\$ 288.00
B20	AB-10-6-1A to AB-10-6-1, Taft Ct - 8" Line																
B20a.	Full Lining - 197 LF (2 Services)	LF	197			\$ 42.00	\$ 8,274.00	\$ 8,274.00	197	100%	\$ 8,274.00		0%	\$ -	197	100%	\$ 8,274.00
B20b.	Service Reconnection	EA	2			\$ 144.00	\$ 288.00	\$ 288.00	2	100%	\$ 288.00		0%	\$ -	2	100%	\$ 288.00
B21	AB-10-6-3A to AB-10-6-2A, Taft Ct - 8" Line																
B21a.	Full Lining - 300 LF (6 Services)	LF	300			\$ 35.00	\$ 10,500.00	\$ 10,500.00	300	100%	\$ 10,500.00		0%	\$ -	300	100%	\$ 10,500.00
B21b.	Service Reconnection	EA	6			\$ 100.00	\$ 600.00	\$ 600.00	6	100%	\$ 600.00		0%	\$ -	6	100%	\$ 600.00
B22	AB-10-9-5 to AB-10-9-4, Taft St - 8" Line																
B22a.	Full Lining - 299 LF (3 Services)	LF	299			\$ 35.00	\$ 10,465.00	\$ 10,465.00	299	100%	\$ 10,465.00		0%	\$ -	299	100%	\$ 10,465.00
B22b.	Service Reconnection	EA	3			\$ 125.00	\$ 375.00	\$ 375.00	3	100%	\$ 375.00		0%	\$ -	3	100%	\$ 375.00
B23	AB-11-2 to AB-11-1, W 28th Ave - 8" Line																
B23a.	Full Lining - 285 LF (3 Services)	LF	285			\$ 36.00	\$ 10,260.00	\$ 10,260.00	285	100%	\$ 10,260.00		0%	\$ -	285	100%	\$ 10,260.00
B23b.	Service Reconnection	EA	3	2	5	\$ 125.00	\$ 375.00	\$ 625.00	5	100%	\$ 625.00		0%	\$ -	5	100%	\$ 625.00
B24	ACC-1 to ACA-2, W 30th PI - 8" Line																
B24a.	Full Lining - 166 LF (3 Services)	LF	166	2	248	\$ 45.00	\$ 7,470.00	\$ 11,160.00	248	100%	\$ 11,160.00		0%	\$ -	248	100%	\$ 11,160.00
B24b.	Service Reconnection	EA	3			\$ 119.00	\$ 357.00	\$ 357.00	3	100%	\$ 357.00		0%	\$ -	3	100%	\$ 357.00
B25	AD-1-2 to AD-1-1, W 31st PI - 8" Line																
B25a.	Full Lining - 300 LF (6 Services)	LF	300			\$ 35.00	\$ 10,500.00	\$ 10,500.00	300	100%	\$ 10,500.00		0%	\$ -	300	100%	\$ 10,500.00
B25b.	Service Reconnection	EA	6			\$ 100.00	\$ 600.00	\$ 600.00	6	100%	\$ 600.00		0%	\$ -	6	100%	\$ 600.00
B26	AD-5 to AD-4, Roult Cir - 8" line																
B26a.	Full Lining - 125 LF (2 Services)	LF	125			\$ 53.00	\$ 6,625.00	\$ 6,625.00	125	100%	\$ 6,625.00		0%	\$ -	125	100%	\$ 6,625.00
B26b.	Service Reconnection	EA	2			\$ 140.00	\$ 280.00	\$ 280.00	2	100%	\$ 280.00		0%	\$ -	2	100%	\$ 280.00
B27	AD-6-1 to AD-6, W 29th PI - 8" Line																
B27a.	Full Lining - 162 LF (1 Service)	LF	162			\$ 46.00	\$ 7,452.00	\$ 7,452.00	162	100%	\$ 7,452.00		0%	\$ -	162	100%	\$ 7,452.00
B27b.	Service Reconnection	EA	1			\$ 210.00	\$ 210.00	\$ 210.00	1	100%	\$ 210.00		0%	\$ -	1	100%	\$ 210.00
B28	B-2A-2 to B-2A-1, Easement, 8" Line																
B28a.	Full Lining - 66 LF (0 Services)	LF	66			\$ 85.00	\$ 5,610.00	\$ 5,610.00	66	100%	\$ 5,610.00		0%	\$ -	66	100%	\$ 5,610.00
B28b.	Service Reconnection	EA	0			\$ -	\$ -	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
B29	B-4 to B-3, Easement - 8" Line																
B29a.	Full Lining - 73 LF (0 Services)	LF	73	2	0	\$ 130.00	\$ 9,490.00	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -
B29b.	Service Reconnection	EA	0			\$ -	\$ -	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -
B30	C-1A-4-2-1 to C-1A-4-2, Owens Ct - 8" Line																
B30a.	Full Lining - 180 LF (2 Services)	LF	180			\$ 43.00	\$ 7,740.00	\$ 7,740.00	180	100%	\$ 7,740.00		0%	\$ -	180	100%	\$ 7,740.00
B30b.	Service Reconnection	EA	2			\$ 140.00	\$ 280.00	\$ 280.00	2	100%	\$ 280.00		0%	\$ -	2	100%	\$ 280.00
B31	C-8A-4 to C-8A-3, W 25th PI - 8" Line																
B31a.	Full Lining - 301 LF (5 Services)	LF	301	3	172	\$ 35.00	\$ 10,535.00	\$ 6,020.00	172	100%	\$ 6,020.00		0%	\$ -	172	100%	\$ 6,020.00
B31b.	Service Reconnection	EA	5			\$ 100.00	\$ 500.00	\$ 500.00	5	100%	\$ 500.00		0%	\$ -	5	100%	\$ 500.00
B32	DELETED																
B32a.	DELETED	LF	0			\$ -	\$ -	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -
B32b.	DELETED	EA	0			\$ -	\$ -	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -
B33	RO-29 to RO-28, Easement - 18" Line																
B33a.	Full Lining - 297 LF (0 Services)	LF	297	1	299	\$ 235.00	\$ 69,795.00	\$ 70,265.00	299	100%	\$ 70,265.00		0%	\$ -	299	100%	\$ 70,265.00
B33b.	Service Reconnection	EA	0			\$ -	\$ -	\$ -	0	0%	\$ -		0%	\$ -	0	100%	\$ -
B34	ZC-13-3 to ZC-13-2, Braun Dr - 8" Line																
B34a.	Full Lining - 322 LF (8 Services)	LF	322			\$ 34.00	\$ 10,948.00	\$ 10,948.00	322	100%	\$ 10,948.00		0%	\$ -	322	100%	\$ 10,948.00
B34b.	Service Reconnection	EA	8			\$ 94.00	\$ 752.00	\$ 752.00	8	100%	\$ 752.00		0%	\$ -	8	100%	\$ 752.00
B35	ZD-5-1 to ZD-5, W 25th PI - 8" Line																
B35a.	Full Lining - 249 LF (3 Services)	LF	249	2	254	\$ 38.00	\$ 9,462.00	\$ 9,652.00	254	100%	\$ 9,652.00		0%	\$ -	254	100%	\$ 9,652.00
B35b.	Service Reconnection	EA	3			\$ 123.00	\$ 369.00	\$ 369.00	3	100%	\$ 369.00		0%	\$ -	3	100%	\$ 369.00
B36	ZD-5-2 to ZD-5-1, W 25th PI - 8" Line																
B36a.	Full Lining - 92 LF (2 Services)	LF	92			\$ 64.00	\$ 5,888.00	\$ 5,888.00	92	100%	\$ 5,888.00		0%	\$ -	92	100%	\$ 5,888.00
B36b.	Service Reconnection	EA	2			\$ 137.00	\$ 274.00	\$ 274.00	2	100%	\$ 274.00		0%	\$ -	2	100%	\$ 274.00
B37	DELETED																
B37a.	DELETED	LF	0			\$ -	\$ -	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -
B37b.	DELETED	EA	0			\$ -	\$ -	\$ -		0%	\$ -		0%	\$ -	0	100%	\$ -
B38	ZD-6 to ZD-5, W 26th Ave - 8" Line																
B38a.	Full Lining - 222 LF (4 Services)	LF	222	2	224	\$ 29.00	\$ 6,438.00	\$ 6,496.00	224	100%	\$ 6,496.00		0%	\$ -	224	100%	\$ 6,496.00
B38b.	Service Reconnection	EA	4			\$ 95.00	\$ 380.00	\$ 380.00	4	100%	\$ 380.00		0%	\$ -	4	100%	\$ 380.00
B39	ZD-7 to ZD-6, W 26th Ave - 8" Line																
B39a.	Full Lining - 219 LF (4 Services)	LF	219	2	225	\$ 29.00	\$ 6,351.00	\$ 6,525.00	225	100%	\$ 6,525.00		0%	\$ -	225	100%	\$ 6,525.00
B39b.	Service Reconnection	EA	4			\$ 95.00	\$ 380.00	\$ 380.00	4	100%	\$ 380.00		0%	\$ -	4	100%	\$ 380.00
B40	ZD-7-1 to ZD-7, Devinney Ct - 8" Line																
B40a.	Full Lining - 326 LF (6 Services)	LF	326			\$ 34.00	\$ 11,084.00	\$ 11,084.00	326	100%	\$ 11,084.00		0%	\$ -	326	100%	\$ 11,084.00
B40b.	Service Reconnection	EA	6			\$ 100.00	\$ 600.00	\$ 600.00	6	100%	\$ 600.00		0%	\$ -	6	100%	\$ 600.00

MARTIN/MARTIN

PAY APPLICATION 04

PROJ. NAME: NWLSD 2021 SANITARY SEWER IMPROVEMENTS
FOR PERIOD: Through 03.09.2022
OWNER: NORTHWEST LAKEWOOD SANITATION DISTRICT
ENGINEER: MARTIN/MARTIN, INC.
CONTRACTOR: INSITUFORM TECHNOLOGIES

Date: 03.18.2022
Job No.: 17.0638.C.08
Prep. By: BLT/ KFK
Chk'd By: BW/ BLT

Table with columns: Bid Item, Description, Unit, Original Quantity, C.O. NO., Revised Qty., Unit Price, Totals (Original, Revised), Total Previous (Qty, %, Amount), This Estimate (Qty, %, Amount), Total to Date (Qty, %, Amount). Rows include items B41 through B59b and C1 through C2e.

MARTIN/MARTIN

PAY APPLICATION 04

PROJ. NAME: NWLSD 2021 SANITARY SEWER IMPROVEMENTS
 FOR PERIOD: Through 03.09.2022
 OWNER: NORTHWEST LAKEWOOD SANITATION DISTRICT
 ENGINEER: MARTIN/MARTIN, INC.
 CONTRACTOR: INSITUFORM TECHNOLOGIES

Date: 03.18.2022
 Job No.: 17.0638.C.08
 Prep. By: BLT/ KFK
 Chk'd By: BW/ BLT

Bid Item	Description	Unit	Original Quantity	C.O. NO.	Revised Qty.	Unit Price	Totals		Total Previous			This Estimate			Total to Date		
							Original	Revised	Qty.	%	Amount	Qty.	%	Amount	Qty.	%	Amount
C2f.	Bypass Pumping (if necessary)	LS	1			\$ 12,830.00	\$ 12,830.00	\$ 12,830.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C3	MH ZC-14: Coors Dr near W 20th Pl																
C3a.	Remove/Replace Existing Brick MH with Precast Concrete MH	LS	1			\$ 26,729.00	\$ 26,729.00	\$ 26,729.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C3b.	Import Fill Class 2 (full depth – if necessary)	LS	1			\$ 5,346.00	\$ 5,346.00	\$ 5,346.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C3c.	Asphalt Remove/Replace	LS	1			\$ 3,207.00	\$ 3,207.00	\$ 3,207.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C3d.	Trench Stabilization (if necessary)	LS	1			\$ 1,508.00	\$ 1,508.00	\$ 1,508.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C3e.	Traffic Control	LS	1			\$ 5,346.00	\$ 5,346.00	\$ 5,346.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C3f.	Bypass Pumping (if necessary)	LS	1			\$ 12,830.00	\$ 12,830.00	\$ 12,830.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C4	MH ZD-3-1: W 23rd Pl Near W 26th Ave																
C4a.	Remove/Replace Existing Brick MH with Precast Concrete MH	LS	1			\$ 26,729.00	\$ 26,729.00	\$ 26,729.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C4b.	Import Fill Class 2 (full depth – if necessary)	LS	1			\$ 5,346.00	\$ 5,346.00	\$ 5,346.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C4c.	Asphalt Remove/Replace	LS	1			\$ 3,207.00	\$ 3,207.00	\$ 3,207.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C4d.	Trench Stabilization (if necessary)	LS	1			\$ 1,508.00	\$ 1,508.00	\$ 1,508.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C4e.	Traffic Control	LS	1			\$ 5,346.00	\$ 5,346.00	\$ 5,346.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C4f.	Bypass Pumping (if necessary)	LS	1			\$ 12,830.00	\$ 12,830.00	\$ 12,830.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C5	MH ZD-3-4: W 23rd Pl Near Creighton Dr																
C5a.	Remove/Replace Existing Brick MH with Precast Concrete MH	LS	1			\$ 26,729.00	\$ 26,729.00	\$ 26,729.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C5b.	Import Fill Class 2 (full depth – if necessary)	LS	1			\$ 5,346.00	\$ 5,346.00	\$ 5,346.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C5c.	Asphalt Remove/Replace	LS	1			\$ 3,207.00	\$ 3,207.00	\$ 3,207.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C5d.	Trench Stabilization (if necessary)	LS	1			\$ 1,508.00	\$ 1,508.00	\$ 1,508.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C5e.	Traffic Control	LS	1			\$ 5,346.00	\$ 5,346.00	\$ 5,346.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C5f.	Bypass Pumping (if necessary)	LS	1			\$ 12,830.00	\$ 12,830.00	\$ 12,830.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C6	MH ZC-7: Braun Dr near Braun Ct																
C6a.	Remove/Replace Existing Brick MH with Precast Concrete MH	LS	1			\$ 26,729.00	\$ 26,729.00	\$ 26,729.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C6b.	Import Fill Class 2 (full depth – if necessary)	LS	1			\$ 5,346.00	\$ 5,346.00	\$ 5,346.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C6c.	Asphalt Remove/Replace	LS	1			\$ 3,207.00	\$ 3,207.00	\$ 3,207.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C6d.	Trench Stabilization (if necessary)	LS	1			\$ 1,508.00	\$ 1,508.00	\$ 1,508.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C6e.	Traffic Control	LS	1			\$ 5,346.00	\$ 5,346.00	\$ 5,346.00		0%	\$ -		0%	\$ -	0	0%	\$ -
C6f.	Bypass Pumping (if necessary)	LS	1			\$ 12,830.00	\$ 12,830.00	\$ 12,830.00		0%	\$ -		0%	\$ -	0	0%	\$ -
	Sub-Total C						\$329,796.00	\$329,796.00		0%	\$ -		0%	\$0.00		0%	\$0.00
	GRAND TOTAL						\$1,659,124.00	\$1,652,803.43		49%	\$811,424.00		2%	\$33,375.43		51%	\$844,799.43
											\$ 40,571.20			\$ 1,668.77			\$ 42,239.97
							\$1,659,124.00	\$1,652,803.43			\$770,852.80			\$ 31,706.66			\$ 802,559.46

* Retainage not subtracted out for Contract Total percent calculation.

The above pay request is approved:
 OWNER: Northwest Lakewood Sanitation District

The above pay request is approved:
 ENGINEER: MARTIN/MARTIN, INC.

BY: _____ DATE: 3/18/2022
 The above pay request is accepted:
 CONTRACTOR: Insituform Technologies

BY: *B.W. Wilk* _____ DATE: 3/18/2022

METRO WATER RECOVERY

Operations Committee Meeting

Agenda

March 1, 2022

11:30 a.m.

Boardroom

Administration Building

Roll Call

Public Comment

Action Items

Tab No.

1. **Consideration to Amend Electrical Job-Order Contracts (O/F/E/Bd)** 1

Chief Executive Officer's Proposal:

Authorize the Chief Executive Officer to amend the five-year, job-order contracting service agreements with Guarantee Electrical Contracting and McDade Woodcock Inc., to increase the not-to-exceed upper limit dollar amount of each agreement from \$250,000 to \$750,000 for a total, combined amount of \$1.5 million between both agreements. No appropriation is included or required as part of this recommendation.

2. **Consideration of Connector Request (O/F/E/Bd)** 2

Chief Executive Officer's Proposal:

Include the City of Fort Lupton within Metro Water Recovery boundaries pursuant to C.R.S. § 32-4-511(3)(b).

Information Items

1. Cogeneration Equipment Replacement Project (PAR 1395) – Request for Selection Committee Members (O/F/E) 3
2. Small Projects Accounts Semi-Annual Report (O/F/E) 4
3. Innovation Quarterly Report (O/F/E) 5
4. Status of Capital Improvement Projects Report (O/F/E) 6
5. Current Activities/Operational Performance Report (O/F/E) 7
6. Upcoming Events (O/F/E) (*Separate Attachment*)

METRO WATER RECOVERY

MEMORANDUM

TO: Mickey Conway, Chief Executive Officer **DATE:** February 2, 2022

FROM: Sherman Papke, Chief Technical Officer
Andrew Nelson, Director of Engineering
Bill Pieper, Senior Electrical/Instrumentation and Control Engineering Manager

RE: Amendments to Job-Order Contracting Services for Miscellaneous Electrical Construction Projects

RECOMMENDATION

We recommend the Board of Directors authorize the Chief Executive Officer (CEO) to amend the five-year, job-order contracting service agreements with Guarantee Electrical Contracting and McDade Woodcock Inc., to increase the not-to-exceed upper limit dollar amount of each agreement from \$250,000 to \$750,000 for a total, combined amount of \$1.5 million between both agreements. No appropriation is included or required as part of this recommendation.

SUMMARY

Metro Water Recovery currently contracts with two electrical contracting firms to provide electrical construction services. Each contract expires in October 2025 or when the upper limit dollar amount is reached. Each of the agreements is projected to reach the upper limit dollar amount mid-2022, almost two years into the five-year contracts. One of the agreements is currently within \$4,000 of the upper limit dollar amount and the other is within \$150,000 of the upper limit dollar amount.

BACKGROUND

Metro Water Recovery has historically contracted with multiple contracting firms to provide a wide variety of construction services on an as-needed, job-order basis. Following approval by the Board on [August 18, 2020](#), Metro entered into five-year contracts with firms which routinely provide construction services, have an excellent reputation for quality, and extensive experience at wastewater facilities performing construction-related tasks such as installation and start-up of new equipment, modifications to existing equipment, and on-going maintenance-related activities. These task orders have allowed Metro staff to complete work quickly and efficiently by supplementing personnel with outside resources.

JUSTIFICATION FOR BOARD ACTION

The total, aggregate amount of all task orders across both agreements authorized by the Board on August 18, 2020 cannot exceed \$500,000. As of December 31, 2021, task orders totaling \$346,000 have been issued to complete work aligning with Metro Water Recovery's strategic goals. Additional task orders have been identified through the first two quarters of 2022 including work planned at the Northern Treatment Plant for installation of wireless access points as part of

Amendments to Job-Order Contracting Services for Miscellaneous Electrical Construction Projects

February 2, 2022 - Page 2

the Wireless Infrastructure Project ([PAR 1364](#)). These additional task orders will exhaust the remaining \$154,000 well before the five-year term of each contract.

Task orders have been issued for the following scope items:

- New raceway for electric valve actuators to improve operator safety
- Addition of signal wiring for safety showers
- Replacement of aging power distribution equipment
- Process instrumentation and control network interfacing
- Network equipment and infrastructure modifications
- Personnel building improvements
- Power and communication wiring for pilot plants
- Addition of electric vehicle charging stations at the Robert W. Hite Treatment Facility
- Addition of operator control stations in the Operation Services and Control Building HazMat and tornado shelters
- Modification of wireless access point infrastructure

Task orders have allowed staff to supplement their time with outside resources to efficiently and quickly deliver small electrical construction projects directly related to Metro Water Recovery's strategic goals.

Each task order for specific work issued under these contracts is funded through either previously authorized capital project appropriations, annual departmental operating budgets, or small project appropriations.

CONTRACT INFORMATION

Each of the two agreements will be amended to increase the not-to-exceed upper limit dollar amount from \$250,000 to \$750,000, upon authorization by the Board.

FINANCIAL IMPACTS

Funding for the construction services via individual task orders will be provided from an existing project appropriation or a Metro Water Recovery department's operating budget. No appropriation is included or required as part of this recommendation.

METRO WATER RECOVERY

MEMORANDUM

TO: Mickey Conway, Chief Executive Officer **DATE:** February 2, 2022

FROM: Emily Jackson, General Counsel
Dawn Ambrosio, Director of Strategy and Communication

RE: Authorization for the City of Fort Lupton to Become a Member Municipality of Metro Water Recovery

RECOMMENDATION

We recommend the Board of Directors include the City of Fort Lupton (Fort Lupton) within Metro Water Recovery boundaries pursuant to C.R.S. § 32-4-513(3)(b).

SUMMARY

On June 25, 2021, Metro Water Recovery received a request from Fort Lupton to determine if it is feasible for Metro to serve Fort Lupton and set the terms and conditions upon which Fort Lupton can be included as a Member Municipality pursuant to C.R.S. § 32-4-513(2)(a).

At its July 20, 2021 meeting, pursuant to C.R.S. § 32-4-513(2)(b), the Board adopted Resolution 0721-B7.f determining Metro Water Recovery can feasibly serve Fort Lupton and established the terms and conditions for Fort Lupton to become a Member Municipality.

On September 7, 2021, the Fort Lupton City Council adopted an ordinance pursuant to C.R.S. § 32-4-513(3)(a), declaring the public health, safety, and general welfare require the inclusion of Fort Lupton within Metro Water Recovery and the governing body desires to have Fort Lupton included therein upon the terms and conditions prescribed by the Board. Upon the final adoption of said ordinance, the clerk of Fort Lupton transmitted a certified copy of the ordinance to Metro.

The final step in the statutory process for inclusion of territory is for the Board to adopt a resolution including said Municipality within the Metro boundaries pursuant to C.R.S. § 32-4-513(3)(b).

BACKGROUND

The Metropolitan Sewage Disposal District Act (Act) establishes the process for a Municipality to be included in Metro Water Recovery. The first step in the process occurred in June 2021 when Metro received a request from Fort Lupton to determine if it is feasible for Metro to serve Fort Lupton and set the terms and conditions upon which Fort Lupton can be included as a Member Municipality pursuant to the Act.

Next, in [July 2021](#), the Board determined it is feasible to serve Fort Lupton and established the terms and conditions upon which Fort Lupton may be included within Metro Water Recovery in Resolution 0721-B7.f.

During August 2021, Fort Lupton City Council completed the third step of the process. Fort Lupton published a Notice of Public Hearing in the *Fort Lupton Press* on August 18, August 25, and September 1, 2021, and a Public Hearing was held September 7, 2021. On September 7, 2021, the Fort Lupton City Council adopted an ordinance declaring the public health, safety, and general welfare require the inclusion of said Municipality within Metro Water Recovery and the governing body desires to have said Municipality included therein upon the terms and conditions prescribed by the Board.

This action is the final step in the statutory process. The Board may adopt a resolution including Fort Lupton within its boundaries pursuant to C.R.S. § 32-4-513(3)(b). If membership is approved by the Board, Metro Water Recovery will submit the resolution to the Division of Local Government in the Department of Local Affairs (DOLA) who will issue a certificate. Metro and Fort Lupton will then execute the *Sewage Treatment and Disposal Agreement (Service Contract)* as approved by the Board in July 2021, and Fort Lupton will be included as a member of Metro and will gain one seat on the Board.

JUSTIFICATION FOR BOARD ACTION

Under the Act, final approval of the Board is necessary for Fort Lupton to be included in Metro Water Recovery's boundaries and for Metro to execute the *Service Contract* as approved in July 2021.

FINANCIAL IMPACTS

Like all members of Metro Water Recovery, Fort Lupton will be subject to Sewer Connection Charges and Annual Charges as required by terms of the *Service Contract* and [Metro Water Recovery's Rules and Regulations Governing the Operation, Use, and Services of the System.](#) With respect to Sewer Connection Charges, once Fort Lupton and Metro determine the number of connections and resulting Single-Family Residential Equivalent (SFREs) to be paid, projections of that revenue will be reflected in Metro cash flows and planning. With respect to Annual Charges, once Fort Lupton begins to send flow to the Northern Treatment Plant, Fort Lupton will pay Annual Charges for its flows and loadings which will be treated by Metro.



City Clerk

130 S. McKinley Avenue
Fort Lupton, CO 80621

Phone: 720.466.6101
Fax: 303.857.0351

www.fortluptonco.gov

February 3, 2022

Via US Mail

Mickey Conway, Chief Executive Officer
Metro Wastewater Reclamation District
6450 York St.
Fort Lupton, CO 80621

Re: Ordinance 2021-1128

Dear Mr. Conway,

Pursuant to State statute, enclosed is a certified copy of Ordinance 2021-1128 An Ordinance of the Fort Lupton City Council acting by and through the Utility Enterprise Board requiring the inclusion of the City within the Metro Wastewater Reclamation District.

If you have any questions, please don't hesitate to contact me at (720) 466-6101.

Sincerely,

Mari Peña
City Clerk

Enclosure

ORDINANCE NO. 2021-1128

INTRODUCED BY: MICHAEL SANCHEZ

AN ORDINANCE OF THE CITY COUNCIL OF FORT LUPTON, COLORADO, ACTING BY AND THROUGH THE UTILITY ENTERPRISE BOARD, DECLARES THAT THE PUBLIC HEALTH, SAFETY, AND GENERAL WELFARE REQUIRE THE INCLUSION OF FORT LUPTON WITHIN THE METRO WASTEWATER RECLAMATION DISTRICT (DISTRICT) AND THAT THE CITY OF FORT LUPTON INCLUDED THEREIN UPON THE TERMS AND CONDITIONS PRESCRIBED BY THE BOARD OF DIRECTORS OF THE DISTRICT; APPROVING THAT CERTAIN “SEWAGE TREATMENT AND DISPOSAL AGREEMENT (SERVICE CONTRACT) WITH THE METRO WASTEWATER RECLAMATION DISTRICT”; AUTHORIZING THE MAYOR TO EXECUTE SAID *AGREEMENT* ON BEHALF OF THE CITY; AND SETTING FORTH OTHER DETAILS RELATED THERETO.

WHEREAS, The City of Fort Lupton, Colorado (“City”) is a political subdivision and municipal corporation of the State of Colorado, pursuant to certain powers set forth in Article XX of the Constitution of the State of Colorado and is Home Rule Charter, and pursuant to its status as a water and sewer enterprise; and

WHEREAS, at its regular meeting on April 20, 2021 (AM2021-066), the Fort Lupton City Council approved and authorized the Mayor to sign a written request (the “Request”) to the Metro Wastewater Reclamation District (“District”), pursuant to C.R.S. Section 32-4-513(2)(a), to determine the feasibility of serving all of the City through the District’s facilities and the terms and conditions upon which the City may be included within the District; and

WHEREAS, at its meeting on July 20, 2021, the Board of Directors of the District considered the City’s request and adopted Resolution NO. 0721-B7.f in which it determined that it could feasibly serve the City pursuant to certain terms and conditions of said Resolution and as provided herein; and

WHEREAS, in reliance on the City’s Request and District’s finding of feasibility, the City and the District have negotiated in good faith and finalized a “***SEWAGE TREATMENT AND DISPOSAL AGREEMENT (SERVICE AGREEMENT) WITH THE METRO WASTEWATER RECLAMATION DISTRICT***”; and

WHEREAS, pursuant to C.R.S Section 32-4-513, the City published in the Fort Lupton Press a Notice of Public Hearing *regarding Potential Inclusion of the City of Fort Lupton Acting by and Through its Utility Enterprise in the Metro Wastewater Reclamation District*, such publication occurring on August 18, 2021, August 25, 2021 and September 1, 2021; and

WHEREAS, at its regular meeting on September 7, 2021, the City Council conducted the requisite public hearing, received information from representatives from the District and City staff, and provided an opportunity for public comment; and

WHEREAS, the City Council finds and determines that the public health, safety, and general welfare of the City, its utility customers and property owners, require the inclusion of the City of Fort Lupton into the District, as provided herein, in order to receive wastewater services from the District pursuant to the terms and conditions prescribed by the District and set forth in the

“SEWAGE TREATMENT AND DISPOSAL AGREEMENT (SERVICE CONTRACT) WITH THE METRO WASTEWATER RECLAMATION DISTRICT”; and

AND WHEREAS, the City Council further finds and determines that the terms of the subject **AGREEMENT** are reasonable and that it is in the best interest of the City to enter into said **AGREEMENT** with the District

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF FORT LUPTON, COLORADO, AS FOLLOWS:

Section 1. The public health, safety, and general welfare of the City, its utility customers and property owners, require the inclusion of the City of Fort Lupton into the District in order to receive wastewater services from the District pursuant to the terms and conditions prescribed by the District and set forth in the **“SEWAGE TREATMENT AND DISPOSAL AGREEMENT (SERVICE CONTRACT) WITH THE METRO WASTEWATER RECLAMATION DISTRICT”** a copy of which is attached hereto as Exhibit “A”.

Section 2. The **“SEWAGE TREATMENT AND DISPOSAL AGREEMENT (SERVICE CONTRACT) WITH THE METRO WASTEWATER RECLAMATION DISTRICT”** is hereby approved and the Mayor is authorized to execute the same on behalf of the City.

Section 3. Pursuant to this Ordinance and subject to final inclusion by the District, the City of Fort Lupton shall be included within the District.

Section 4. Upon final approval, a copy of this Ordinance shall be forwarded to the District.

Section 5. **Purpose.** The purpose of this Ordinance is to provide for the health, safety and welfare of the people.

Section 6. **Repeal.** Existing or parts of ordinances covering the same matters as embraced in this Ordinance are hereby repealed and all ordinances or part of ordinance inconsistent with the provision of this Ordinance are hereby repealed, except that this repeal shall not affect or prevent the prosecution or punishment of any person for any act done or committed in violation of any ordinance hereby repealed prior to the taking effect of this Ordinance.

Section 7. **Validity.** If any part or parts of this Ordinance are for any reason held to be invalid, such decision shall not affect the validity of the remaining portions of this Ordinance. The City Council hereby declares that it would have passed this Ordinance and each part or parts thereof, irrespective of the fact that any one part or parts be declared invalid.

Section 8. **Interpretation.** This Ordinance shall be so interpreted and construed as to effectuate its general purpose.

INTRODUCED, READ, AND PASSED ON FIRST READING, AND ORDERED PUBLISHED this 7th day of September 2021.

PUBLISHED in the Fort Lupton Press the 15th day of September 2021.

FINALLY READ BY TITLE ONLY, PASSED AND ORDERED PUBLISHED BY TITLE ONLY this 5th day of October 2021.

PUBLISHED BY TITLE ONLY the 13th day of October 2021.


EFFECTIVE (after publication) the 12th day of November 2021.

CITY OF FORT LUPTON, COLORADO



Zo Stieber, Mayor

ATTEST:



Maricela Peña, City Clerk

Approved as to form:



Andy Ausmus, City Attorney



I, Maricela Peña, City Clerk, hereby certify that the Fort Lupton City Council duly adopted the foregoing Ordinance on September 7, 2021.



MARICELA PENA
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20134010975
MY COMMISSION EXPIRES MARCH 2, 2025

METRO WATER RECOVERY

MEMORANDUM

TO: Mickey Conway, Chief Executive Officer **DATE:** February 22, 2022

FROM: Sherman Papke, Chief Technical Officer
Andrew Nelson, Director of Engineering
Matt Duncan, Senior Treatment Plant Engineering Manager
A.D. Norford, Principal Engineer (Metro Project Manager)

RE: Cogeneration Equipment Replacement Project (PAR 1395)
Designation of Selection Committee Members

RECOMMENDATION

We recommend the Executive Committee designate three Directors to serve on a Selection Committee to select a Construction Management-At-Risk Contractor (CMAR Contractor) to perform preconstruction services for the Cogeneration Equipment Replacement Project (PAR 1395) (Project). Interviews will be held and a CMAR Contractor selected on April 13, 2022. Directors interested in serving on the Selection Committee are asked to notify their Standing Committee Chair prior to the March 8, 2022 Executive Committee meeting.

SUMMARY

Design of the improvements to transition from a combined heat and power (CHP) process to a revenue-generating renewable natural gas (RNG) process will be completed through coordinated efforts of Metro Water Recovery staff and Carollo Engineers (Carollo) in collaboration with a selected [CMAR](#) Contractor. The CMAR Contractor, per a preconstruction services agreement, is expected to work collaboratively with Metro and Carollo to optimize and better define schedule, project costs, construction impacts on stakeholders, design details, and other advantages which result from use of the CMAR process. The overall Project will include design of a biogas conditioning system and RNG pipeline injection system which will interconnect to an existing Xcel Energy natural gas pipeline on the Robert W. Hite Treatment Facility (RWHTF). Electrical modifications will include re-use of existing transformers to supply power to the new conditioning and injection facilities, as well as a new mechanical building which will house new boilers as a replacement heat source for the digester complex and other process buildings in the area. Mechanical modifications to the existing hot water and biogas systems are necessary in addition to the site work associated with these improvements.

BACKGROUND

Background information regarding biogas utilization at the RWHTF can be found in the Board memo dated [December 21, 2021](#).

Following standard Metro Water Recovery consultant selection procedures, Carollo was selected as the consultant to perform design phase services for this Project. The Board of Directors approved the selection of Carollo and authorized Metro staff to enter into a professional services agreement with Carollo at the January 18, 2022 Board meeting.

JUSTIFICATION FOR BOARD ACTION

The [2021 biogas utilization study](#) estimated the capital cost of the RNG system to be \$30 million less than a replacement CHP system. In addition, the RNG system will produce significantly more revenue for Metro Water Recovery, with an annual revenue of roughly \$15 million versus an estimated \$5 million in avoided cost associated with a replacement CHP system. Selling the biogas on the wholesale and federal Renewable Fuel Standard (RFS) program market for renewable identification numbers (RINs) was estimated to generate \$15 million in revenue for Metro annually at the time of the study, since which time credit values have increased. The payback for the RNG system was estimated at four years during the study.

The continued use of digester gas for beneficial purposes aligns with the Metro 6.0 mission statement which asserts Metro Water Recovery will practice resource recovery, protect the region's health and environment by decreasing air emissions, and deliver value to the ratepayers through improved asset stewardship. It also aligns with the Energy Program's drivers of ensuring operability, maintainability, reliability, and safety; minimizing life-cycle costs; and ensuring sustainable energy planning and utilization.

Per the CMAR delivery method, Metro Water Recovery requires a CMAR Contractor to perform preconstruction and construction services needed to transition from the current CHP biogas system to an RNG, pipeline injection system. The CMAR delivery method will allow for best value selection of contractors, technologies, and materials to negotiate a Stipulated Price prior to construction.

The CMAR relationship for this Project will be contracted in two phases. The first phase will be for preconstruction services, with the scope of work generally including optimizing and better defining schedules, project costs at various design milestones, construction sequencing and impacts, design details, equipment and vendor selection, and providing permitting support. Early procurement of long-lead major equipment such as the hydrogen sulfide removal equipment, biogas conditioning equipment, compressors, and boilers may become part of the first phase if lead-times dictate the need. Due to the opportunity to generate significant revenue, avenues are being pursued to deliver and commission the new RNG system as quickly as possible.

The second phase will include construction services, with the scope of work generally including construction, construction-related activities for the Project, management of subcontractors and material and equipment vendors, securing all necessary and applicable construction-related permits, and start-up and commissioning.

On February 18, 2022, Metro Water Recovery issued a Request for Proposals (RFP) for preconstruction services for the Project. Metro will receive proposals from contractors on March 25, 2022 and shortlist no more than three firms by March 31, 2022. The selected firms will be invited for presentations and interviews on April 13, 2022.

Metro Water Recovery's [Purchasing and Contracting Policies](#) require the CMAR Contractor selection be made by a committee of Metro staff and Directors as the estimated costs for all contractor services are greater than \$1.5 million. Three members from the Board of Directors are needed to serve on the Contractor Selection Committee.

Interview Schedule

Three presentation/interviews are anticipated and will be conducted on Wednesday, April 13, 2022 in the Boardroom at the RWHTF, with the following tentative schedule:

7:30 a.m. – 8:30 a.m.	Review Project Scope with Selection Committee and Breakfast
8:30 a.m. – 9:15 am.	Contractor 1
9:15 a.m. – 9:45 a.m.	Contractor 1 Discussion
9:45 a.m. – 10:30 a.m.	Contractor 2
10:30 a.m. – 11:00 a.m.	Contractor 2 Discussion
11:00 a.m. – 11:45 a.m.	Contractor 3 (If needed)
11:45 a.m. – 12:30 p.m.	Contractor 3 Discussion and Contractor Ranking

Following the last presentation/interview, each Selection Committee member will rank the three CMAR Contractors in order of preference. The Selection Committee will then come to a consensus on the ranking, and Directors on the Selection Committee will instruct Metro Water Recovery staff to negotiate an agreement with the highest-ranked CMAR Contractor.

CONTRACT INFORMATION

After negotiating an agreement (scope of work and fees) with the highest-ranked CMAR Contractor, Metro Water Recovery staff will request the Board of Directors authorize the Chief Executive Officer to enter into a standard preconstruction services agreement with that CMAR Contractor.

FINANCIAL IMPACTS

The [Ten-Year Capital Expenditure Schedule](#) used to prepare the cash flow schedule for the 2022 Adopted Budget includes \$37 million for this project. Pursuant to Metro Water Recovery's capital financing policy, this Project will be 100 percent funded from the General Fund.

METRO WATER RECOVERY

MEMORANDUM

TO: Mickey Conway, Chief Executive Officer **DATE:** February 11, 2022

FROM: Perry Holland, Director of Comprehensive Planning
Jessica Maloney, Senior Wastewater Infrastructure Planner

RE: SEMI-ANNUAL STATUS REPORT – JULY THROUGH DECEMBER 2021
General Fund Small Projects, Studies, and Expenditures Account
Fixed Asset Replacement Fund Small Projects, Studies, and Expenditures Account

BACKGROUND

The Board of Directors established the Small Projects Accounts by delegating authority to the Chief Executive Officer (CEO) to approve small projects subject to the CEO's spending authority rather than require individual appropriations by the Board for each activity. This process increases efficiency and allows Metro Water Recovery staff to better manage small capital projects. Metro staff requests an appropriation for small projects each year as part of the annual budget process.

Under the authority delegated by the Board of Directors, the CEO has the discretion, subject to the CEO's spending authority, to:

- Approve expenditures from the General (GEN) Fund Small Projects, Studies, and Expenditures Account for (1) environmental projects, studies, or activities; (2) improvement and growth-related projects, studies, or expenditures; or (3) relatively minor initial services to determine the scope of potential improvement and growth-related and regulatory projects expected to exceed the CEO's spending authority.
- Approve expenditures from the Fixed Asset Replacement (FAR) Fund Small Projects, Studies, and Expenditures Account for (1) replacement/rehabilitation projects, studies, and expenditures; or (2) relatively minor initial services needed to determine the scope of potential replacement/rehabilitation projects expected to exceed the CEO's spending authority.

The following table describes these two accounts.

Account	Purpose
GEN Fund Small Projects, Studies, and Expenditures	Environmental assessment efforts – ensure regulatory requirements are met at Metro Water Recovery in a logical/cost-effective manner Improvement and growth-related (to a new condition) – adding capacity, improving technology, expanding, and upgrading
FAR Fund Small Projects, Studies, and Expenditures	Replacement and rehabilitation (to previous/existing condition) – restoring and repairing

PROJECT ACTIVITIES – STATUS REPORT

The attached overview summarizes ongoing and new projects as well as projects completed under each of the two accounts from July to December 2021:

- Attachment A: GEN Fund Small Projects, Studies, and Expenditures Account; FAR Fund Small Projects, Studies, and Expenditures Account; and GEN Fund and FAR Fund Combined Small Projects, Studies, and Expenditures Accounts

The attachment also indicates an estimate of the work completed for each ongoing small project and lists projects for which the work is completed but the closeout paperwork has not been completed or the final payments have not been made. Remaining funds for all closed projects have been rescinded.

FINANCIAL IMPACTS

The following table gives a summary of how the Small Projects have impacted the overall budget from July to December 2021:

Total Initiated from GEN Fund	\$350,000
Total Initiated from FAR Fund	\$750,000
Total Amount Rescinded	(\$56,101)
Total Spent on Small Projects from July to December 2021	\$1,043,899
Total Appropriated Amount for 2021	\$3,000,000
Total Small Project Balance	\$4,452,910

A list of current and future projects can also be found on the [Ten-Year Capital Expenditure Schedule](#).

Attachment

ATTACHMENT A
July 1 through December 31, 2021

GENERAL FUND, FIXED ASSET REPLACEMENT FUND, AND COMBINED PROJECTS
SMALL PROJECTS, STUDIES, AND EXPENDITURES ACCOUNTS

ONGOING PROJECTS

These projects have received funding from either the General Fund (GEN), Fixed Asset Replacement Fund (FAR), or both if they fall into both categories. Dollar amounts have been assigned according to the amount of work expected in each category.

Asset Management:

PAR 1271 – RWHTF Electric Gate Actuator Project (Project Manager [PM] C. Geier)

This project involved the installation of electric actuators on 27 large gates and valves located at the South Secondary Complex (SSEC) at the Robert W. Hite Treatment Facility (RWHTF). The electrical contractor completed their work, but the project has remained open to purchase additional actuators which will soon be installed by the Maintenance Department. All actuators, except for the three centrate and return activated sludge (RAS) reaeration basin (CaRRB) air valves, have been installed and are operable.

FAR Authorized: \$250,000	Expended: \$192,697	Work Completed: 100%
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PAR 1383 – Process Control System Controller Upgrade (PM J. Tran)

This project replaced old generation process control network equipment at the two data centers of the RWHTF due to equipment age and to increase capacity to meet current and future network demands, increase reliability, improve network security, and minimize redundancy. This project is currently being closed out.

FAR Authorized: \$250,000	Expended: \$243,994	Work Completed: 100%
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PAR 1405 – Asset Management Program Implementation (PM E. Stec-Uddin)

This project will develop asset management fundamentals: inclusion, granularity, hierarchy, tools evaluation, change management, and associated governing documentation development. Task orders with consultants are in place, the project is initiated, and the first workshop is scheduled for mid-February.

FAR Authorized: \$250,000	Expended: \$0	Work Completed: 0%
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Continuous Improvement:

Featured Projects:

PAR 1360 – Intellectual Property Program (PM E. Jackson)

As the culture of innovation throughout Metro Water Recovery continues to mature and expand, Metro is developing ideas which are candidates for obtaining patent rights. An Intellectual Property Program would provide Metro legal protection in two ways: first, by understanding the patent landscape at the outset of projects, which will inform the universe of potentially patentable ideas; and second, to protect the intellectual property developed by Metro so others are precluded from patenting and then charging Metro for its own ideas. Currently, Metro (1) does not conduct patent investigations before starting

projects, which could result in infringement claims, and (2) is not protecting its intellectual property through patents, which could result in other entities filing patents and then filing infringement claims or requiring Metro to obtain expensive licenses. The Office of the General Counsel continues to work with outside counsel to evaluate potentially patentable ideas. Metro is pursuing patent protection for efforts associated with simultaneous nitrogen and phosphorus removal from anaerobically digested sludge in the Post-Aerobic Digester (PAD) process at the Northern Treatment Plant (NTP).



Inside the PAD at NTP. Above, before startup.
Right, during clean-up in winter 2019.

GEN Authorized: \$100,000	Expended: \$26,882	Work Completed: 25%
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PAR 1364 – District Wireless Infrastructure (PM L. Chamberlain)

As Wi-Fi technology continues to improve, the need for staff mobility has grown as well. It is no longer a nice-to-have service supporting a narrow set of specific needs; it has become an integral part of supporting Metro Water Recovery workforce. The RWHTF core controllers are exceeding capacity, at the end of their usable life, and the system does not support the newer technology which increases signal quality, bandwidth, and total capacity. The result is a poor quality and spotty wireless experience for users. Additionally, the range of access points at NTP is limited and there are not enough access points to support expanding mobile operation and maintenance activities. The result is a poor wireless experience for users, lost opportunities for enhanced productivity, and vulnerability from the cyber security perspective.



Example of an indoor wireless access point.

This project includes a plan to use current job-order contracts with electrical contractors to install new

wireless access points throughout the RWHTF and NTP. Phase 1e, which was to develop campus coverage map designs, was conducted by Metro staff. With staff returning to the office in August 2021, equipment investments were made to provide additional capacity for the Administration Building and some other office buildings. The design and cost estimate for Phase 2 has been completed and requires this project to become a large project to complete installation of the new hardware at the office buildings and the process facilities for both the NTP and RWHTF. The estimated timeline to complete installation of equipment at office buildings and NTP process facilities under Phase 2 is the fourth quarter of 2022. Estimated completion of Phase 3 work for RWHTF process facilities is fourth quarter of 2023.

FAR Authorized: \$150,000	Expended: \$129,539	Work Completed: 45%
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Other Projects:

PAR 1367 – Digital Presence (PM J. Hennes)

This project establishes a social media presence and new public-facing website for Metro Water Recovery. To date, the new website is complete, and the Facebook and LinkedIn accounts are up and running. Staff has also completed all necessary policies to guide work on the website and social media accounts. Staff is reviewing and refining web pages to identify any work which would require the services of the vendor, All Terrain Studios.

FAR Authorized: \$100,000	Expended: \$76,364	Work Completed: 95%
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PAR 1372 – Pretreatment Database Pretreatment Information Management System (PIMs) Replacement and Cross-Media Electronic Reporting Rule (CROMERR) Portal (PM R. Dorsey)

This project implements a new software service for the Industrial Pretreatment Program’s permitting and monitoring. In coordination with procurement, an external project manager (Link Tech) has been hired. Commencing in January 2022, staff is evaluating business needs and will select a vendor. Staff is optimistic significant progress will be reported in 2022.

FAR Authorized: \$250,000	Expended: \$0	Work Completed: 10%
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PAR 1376 – Laboratory Audit (PM B. Peshek)

This project would have engaged a third-party laboratory auditor to conduct a laboratory review and evaluation specific to documents and activities associated with compliance analyses under the National Pollutant Discharge Elimination System (NPDES) and the Environmental Protection Agency (EPA) Biosolids regulations. After discussion, staff will be closing the Lab Audit Small Project. With recent staffing changes lab staff is currently conducting internal reviews of processes and procedures including increased use of outside lab services. Once these changes are fully implemented, staff will review and redefine the potential scope of a future audit. Until such time, staff has directed the project be closed so the project funds can be released back into the Small Project Fund.

GEN Authorized: \$250,000	Expended: \$0	Work Completed: 0%
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PAR 1377 – Office 365 Evolution (PM R. Sandoval)

This project plans the implementation, migrates to Exchange online, implements collaboration and Office applications, and implements SharePoint online for all staff. As of December 31, 2021, Phase 1 was completed, which included migrating all staff to Office 365.

FAR Authorized: \$100,000	Expended: \$53,200	Work Completed: 60%
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PAR 1378 – Line Locates Enhancements (PM M. Simmons)

This project fulfills the legal requirement for Metro Water Recovery to become a Tier 1 member of the Utility Notification Center of Colorado (UNCC). The implementation of sustainable data transfer between Metro and UNCC allows Metro's locates system to electronically accept locates from the UNCC-operated database and sends confirmation back. The scope of the project has been completed.

GEN Authorized: \$50,000	Expended: \$5,666	Work Completed: 100%
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PAR 1384 – Vital Records Update 2020 (PM E. Sturgeon)

This project engages the assistance of legal experts and records management consultants to provide needed best practice expertise to Metro Water Recovery's records retention and disposition schedule. As of December 31, 2021, the consultant has finished their work and provided the final report to Metro. Records Management staff has a meeting schedule with the Executive Leadership Team on Monday, February 28, 2022 to discuss the findings of the report. Records Management staff have begun to implement some of the recommendations from the final report.

FAR Authorized: \$50,000	Expended: \$27,600	Work Completed: 85%
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PAR 1386 – Legal Assistance Fund 1 (PM B. Peshek)

This project is used to fund outside service support for increased regulatory, legislative, policy work, and other related items. Staff has been able to use these funds to address chemical approvals and other ongoing regulatory items.

GEN Authorized: \$250,000	Expended: \$33,508	Work Completed: 13%
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PAR 1387 – Legal Assistance Fund 2 (PM B. Peshek)

This project is used to fund outside service support for addressing new items from the new federal administration, infrastructure and capital issues, innovation, pandemic issues, and other related items. Staff has been able to use these funds to address heat recovery innovations.

GEN Authorized: \$250,000	Expended: \$6,818	Work Completed: 3%
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PAR 1388 – Education and Outreach Asset Update (PM K. Merritt)

This project supports the education and outreach goals as outlined in the 2019 Communication Plan. Current education assets are being evaluated for updates and new assets are in various stages of development. Public Information has built a solid video library which includes drone shoots of the RWHTF, NTP, and METROGRO Farm (Farm). The visual assets are the foundation for upcoming video production projects. In addition, a template has been designed which will serve as the framework for updating the one-pagers which complement the three education campaigns.

GEN Authorized: \$100,000	Expended: \$13,890	Work Completed: 15%
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PAR 1389 – Records Management System Upgrade 2020 (PM E. Sturgeon)

This project engages Hewlett Packard Enterprise Company (HPE) consulting/training resources and/or a third-party integrator to assist staff with an upgrade to the latest version of HPE Content Manager to support Records Management Program operations. As of December 31, 2021, a third-party integrator was hired to assist with the upgrade of the Records Management System. Currently, a test server is being created by the Information Technology Department so the new software can be installed and tested.

FAR Authorized: \$50,000	Expended: \$3,075	Work Completed: 30%
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PAR 1403 – Continuous Improvement Framework (PM M. Kiflai)

Metro Water Recovery’s Strategic Plan contains an objective to “Develop a Culture of Continuous Improvement.” This strategic objective was meant to not only support efforts across Metro, but also provide a structured approach to continuous improvement and allow staff to take on improvement efforts. This project includes an internal assessment of the organization to determine the best structure to initiate a continuous improvement program over a one-to-three-year period. In order to advance this objective, Metro has retained the services of Raftelis Financial Consultants, Inc. to assist with developing an Enterprise Continuous Improvement Framework. To engage employees in this process, the consulting team has been conducting a series of focus groups across the organization. The purpose of these focus groups was to discuss perspectives on continuous improvement, hear views on the strengths and challenges of past improvement initiatives, and discuss opportunities to ensure a culture of continuous improvement.

GEN Authorized: \$250,000	Expended: \$5,440	Work Completed: 10%
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Transitioned to a Large Project:

PAR 1359 – Evaluate and Enhance Metro District’s Brand Identity (PM D. Ambrosio)

This project has been working to update Metro Water Recovery’s Brand Identity through adopting a new name and logo, expanding communication channels, and implementing public campaigns to increase awareness of Metro and its purpose. Predicted brand replacement and consultant work is completed. The PAR will remain open to ensure branded items have been fully identified and replaced with the new name and logo.

GEN Authorized: \$618,000	Expended: \$559,352	Work Completed: 85%
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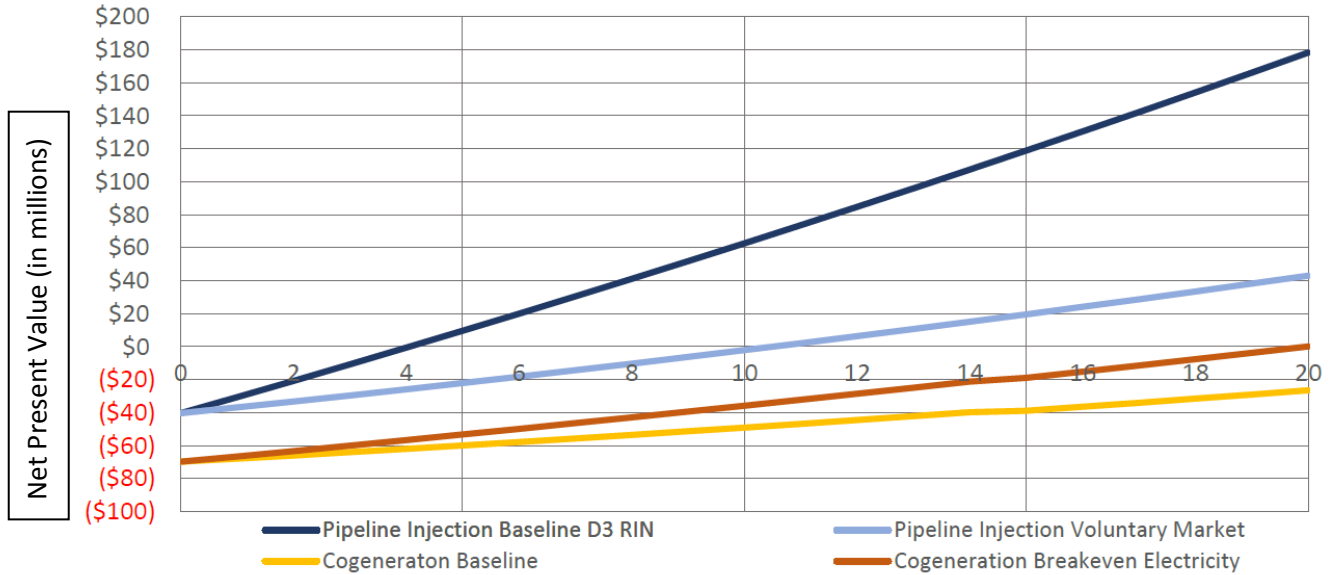
Energy:

Featured Project:

PAR 1395 – Cogeneration Equipment Replacement (PM A. Norford)

This project was initiated as a small project to evaluate which biogas utilization system provides the best value. The study phase assessed the current and anticipated financial incentives for renewable natural gas (RNG) and combined heat and power, biogas cleaning requirements, and biogas upgrading equipment considering ease of operation and maintainability, assurance of regulatory compliance, and return-on-investment benefits. The study recommended transitioning biogas use at RWHTF from cogeneration to RNG. The large project requested appropriation will include funds to reimburse the small

project account for the expenditures made during the study phase. A Request For Proposals (RFP) for design phase consulting services was issued and a consultant was selected. The agreement with the consultant and appropriation were authorized by the Board of Directors on January 18, 2022 and the project has transitioned to a large project.



Estimated payback of Renewable Natural Gas and Combined Heat and Power systems

FAR Authorized: \$250,000	Expended: \$198,976	Work Completed: 100%
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PAR 1398 – Effluent Temperature Compliance Study (PM AD Norford)

This project evaluates heat recovery alternatives, determines anticipated temperature reduction of plant effluent, and recommends a path forward regarding heat recovery at the RWHTF. This work will support the Energy Program’s drivers of ensuring sustainable energy planning and use. It is timely to seek an understanding of the potential to incorporate a sustainable technology like heat recovery into the portfolio of thermal pollution mitigation solutions. This project is currently in the study phase and anticipated to be completed in the second quarter of 2022.



Outfall area at the RWHTF, where treated wastewater (effluent) is returned to the South Platte River

GEN Authorized: \$250,000	Expended: \$41,294	Work Completed: 30%
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Other Projects:

PAR 1375 – Transformer and ARMS Standardization (PM C. Geier)

This project includes developing written standards for hardwired protection of transformers and the Arcflash Reduction Maintenance System (ARMS) as well as developing a cost estimate for design, bidding, and construction of required modifications. The consultant has developed design guides for both transformer protection and ARMS control scheme and is being reviewed by staff. The cost estimate for

construction at RHWTF and NTP is \$3.2 million at 30 percent completion. Much of the work associated with the RHWTF can be incorporated into Electrical Transmission Service Substation Project (PAR 1265) at minimal cost since three of the four medium voltage switchgear facilities are being modified. Remaining construction activities are being prioritized through the enterprise program.

GEN Authorized: \$125,000	GEN Expended: \$56,647	Work Completed: 60%
FAR Authorized: \$125,000	FAR Expended: \$56,647	
Total: \$250,000	Total Expended: \$113,294	

PAR 1397 – Electric Fleet Vehicle Charging Infrastructure (PM C. Geier)

This project determines best design options and constructs electric vehicle (EV) charging stations for existing fleet EVs assigned to the Environmental Services Department. The design of the project has been completed and the construction work will be done using existing job-order contracts with electrical contractors. Staff is currently waiting for a quote from the electrical contractor and to finish the procurement process of four dual-port charging stations. Design standards will be developed with installation details for all personnel buildings for future installations.

GEN Authorized: \$100,000	Expended: \$0	Work Completed: 20%
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PAR 1401 – Alternative Energy Evaluation (PM J. Trujillo)

This project will evaluate renewable energy opportunities at the RHWTF, NTP, and Farm. It includes a feasibility study of photovoltaic (PV) development at NTP and is evaluating both wind and PV opportunities at the Farm.

GEN Authorized: \$75,000	Expended: \$200	Work Completed: 5%
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Liquids:

Featured Project:

PAR 1336 – North Secondary Pilot Program (PM B. Wisdom)

To address capacity limitations of the North Secondary (NSEC) Treatment Process as identified in the most recent Facility Plan and to replace infrastructure which has reached the end of its useful life, the [Ten-Year Capital Expenditure Schedule](#) (CES) includes an NSEC Asset Replacement Project (\$183 million). Prior to initiation of this project, innovative process concepts and new technologies and equipment are being investigated and tested for the ability to improve performance, increase energy efficiency, and increase the ease of operation and maintenance while simultaneously delivering overall secondary capacity needs at the RHWTF. Hydrocyclones were selected for a technological evaluation to increase the treatment capacity of the NSEC, allowing for the retention of current rated capacity at future permit limits. The pilot experiment and study are near completion with an anticipated end date of the first quarter of 2022.

GEN Authorized: \$250,000	Expended: \$194,752	Work Completed: 85%
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The NSEC at the RWHTF

Other Projects:

PAR 1373 – Innovation and Research Initiatives (PM B. Wisdom)

This project includes support of the city of Aurora’s Box Elder Feasibility Study, support to the River Mile developers on the River Mile Sewer Heat Recovery Feasibility Study, as well as participation and support of Water Research Projects such as source identification and control and fate and transport of per- and polyfluoroalkyl substances (PFAS) occurrence in U.S. wastewater treatment plants.

GEN Authorized: \$175,000	Expended: \$39,500	Work Completed: 5%
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PAR 1381 – NTP Effluent Pond Herbicide Treatment for ANS (PM S. Lundt)

This project’s goal is to eradicate and prevent further spread downstream of three non-native, aquatic nuisance species (ANS) in the three NTP ponds. 2021 was the second year of treatment for all three NTP ponds. Plant surveys showed a major decline in ANS plants.

GEN Authorized: \$75,000	Expended: \$64,230	Work Completed: 85%
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PAR 1385 – NTP Post Startup Evaluation (PM T. Worley-Morse)

This project is conducting an evaluation of the current post-startup state of the NTP to identify near- and long-term needs. The initial categorization, ranking, and prioritization of projects has been completed, which led to the identification and scoping of the following short-term improvements: demolition of the liquid oxygen system; Gravity Thickening Pump Station Improvements (PAR 1088); and safety improvements at the tertiary pump station, tertiary floc/sed basins, digesters, and cogeneration. The demolition of the liquid oxygen system was completed with Velocity Constructors, Inc. (Velocity). The Velocity safety item task order is expected to be issued in February 2022, and the bid documents for PAR 1088 are expected to be released in March 2022. This study also involved a feasibility study for recommending a path-forward for achieving temperature compliance by the end of the compliance schedule. Remaining work includes an update to the plant process model and identification of efforts to improve performance of the activated sludge and sidestream treatment processes.

GEN Authorized: \$250,000	Expended: \$48,146	Work Completed: 50%
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PAR 1390 – Aeration Control Strategy Review and Implementation (PM D. Freedman)

This project is evaluating the existing aeration control strategies at the three activated sludge processes (NSEC, SSEC, and NTP) and reviewing the available market options for implementation. Staff will

develop a performance comparison and summary of the positive, negative, and desired attributes of the existing and future control systems. From this analysis, the preferred control strategy will be identified with a recommended implementation plan. Particular emphasis will be placed on standardizing the aeration control systems across each facility. Staff will also evaluate the potential for applying machine learning technology into the secondary treatment process.

GEN Authorized: \$250,000	Expended: \$0	Work Completed: 15%
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PAR 1410 – 2021 Process Optimization (PM D. Freedman)

The Process Optimization project was initiated as a reoccurring small project for the completion of studies, demonstrations, or other efforts to assess the viability of optimizing treatment processes. The goal of Process Optimization is to generate long-term sustainable operating budget savings. This project will evaluate devices which can lead to operational improvements and cost reduction. This includes the evaluation of an online microbial measurement instrument for continuous monitoring of pre-disinfection *Escherichia coli* (*E. coli*). The project is also evaluating a zeta-potential device for measuring electrokinetic potential as a means to optimize sludge granulation and dewatering polymer dose.

GEN Authorized: \$250,000	Expended: \$22,367	Work Completed: 20%
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PAR 1411 – North Secondary Upgrades and Intensification (PM AD Norford)

This project addresses fixed assets to be replaced and other issues in the NSEC. Task Order 3 (currently managed by Metro Water Recovery employee Dan Freedman and Hazen and Sawyer) should be complete in April 2022. This project was initiated as a small project to develop scope under a study phase prior to transitioning to a large project.

GEN Authorized: \$250,000	Expended: \$8,095	Work Completed: 30%
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Operational Risk Management:

PAR 1307 – North and South Entry Gate Emergency Notification Improvement (PM L. Chamberlain)

This project installed LED signage to inform visitors to the RWHTF to take precautions if they approach the north or south gates during an emergency. The final programmable logic controller upgrade is being scheduled to fully integrate the signs with supervisory control and data acquisition and with the plant emergency and announcement system.

GEN Authorized: \$250,000	Expended: \$190,983	Work Completed: 95%
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PAR 1347 – RWHTF HazMat Shelter-In-Place Rehabilitation (PMs M. Gipe, B. O'Malley)

This project provides modifications and upgrades to the HazMat controls in office buildings, eliminating inconsistencies between shelter-in-place locations on the RWHTF plant site. Additionally, some HazMat shelter-in-place locations in process areas are being decommissioned and several new ones are being added for better distribution across the plant site.

FAR Authorized: \$250,000	Expended: \$225,531	Work Completed: 90%
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PAR 1350 – RWHTF Radio System Upgrade Project (PM S. Ast)

This project updates radio communications across the RWHTF, NTP, and Farm sites from analog to the new digital frequency standard. Motorola conducted an assessment for digital performance from analog. Staff is conducting a digital coverage test with a local vendor for the RWHTF, NTP, and Farm, and has procured new digital radios.

FAR Authorized: \$250,000	Expended: \$93,877	Work Completed: 60%
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PAR 1355 – Dynamic Safety System (PM B. O'Malley)

This project is developing and implementing key safety and health programs for staff. Through September 2021, 51 programs and guidelines were developed or updated. Landmark Environmental is returning in February 2022 to perform a site-wide audit of the program implementation. Final program development will be an Asbestos Management plan which will begin work in February 2022 as well.

GEN Authorized: \$200,000	Expended: \$141,556	Work Completed: 80%
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PAR 1365 – Fall Protection Infrastructure Improvements (PM B. O'Malley)

This project focuses on providing fall protection for work in and over the aeration basins, clarifiers, channels, and galleries, specifically immediate deficiencies where employees are frequently working at heights or over dangerous equipment/wastewater without adequate fall protection appurtenance in place. Bulk swing installation work is completed as are the technical guidelines for fall protection design. The remaining activity is the installation of gates on the south secondary clarifiers. This will require an additional request of \$10,000 to the Capital Planning Workgroup to cover the cost.

GEN Authorized: \$200,000	Expended: \$185,736	Work Completed: 90%
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Solids:

PAR 1354 – Process Building Centrifuge VFD Replacement (PM D. Miller)

This project replaces old drives as needed on the high-speed centrifuges used to dewater biosolids. The current Process Building's equipment (variable frequency drives [VFD]) is being used as a bypass for the continued processing of solids as the new Sludge Process Building Improvements Project (PAR 1244) completes construction later this year. As it stands, PAR 1354 is complete, contingent upon completion of PAR 1244. Once PAR 1244 is complete and all the new equipment is fully functional and operational, this project will be moved to close-out.

FAR Authorized: \$75,000	Expended: \$59,071	Work Completed: 80%
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PAR 1404 – Solids Evaluation (PM D. Stillwell)

This project includes pre-evaluation data collection, technology review, and pilot testing for thickening and screening technologies, as well as overall solids evaluation which will provide recommendations for improvements to the solids handling facilities.

GEN Authorized: \$250,000	Expended: \$141,487	Work Completed: 60%
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Support Facilities:

Featured Project:

PAR 1391 – Boardroom Refresh (PM R. Kedzior)

The Boardroom audiovisual technology needs updates to bring the room up to current technology standards as well as to address the need for simultaneous in-person and virtual meetings. This project has evaluated the Boardroom’s current technology, developed options for technology updates, and presented recommendations to the Board of Directors for consideration. The project team will complete the design, bidding, and installation of improvements per Board recommendations. Due to continued supply chain issues, the installation of the equipment and thorough testing is expected to be completed by March 31, 2022.

FAR Authorized: \$250,000	Expended: \$65,358	Work Completed: 25%
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Other Projects:

PAR 1374 – Facilities Maintenance Satellite Facility Improvements (PM T. Gottschalk)

This project addresses improvements and deficiencies in the steel structure which was purchased from the South Secondary Improvements Project (PAR 1085) contractor for Facilities Maintenance storage use.

GEN Authorized: \$100,000	GEN Expended: \$0	Work Completed: 15%
FAR Authorized: \$150,000	FAR Expended: \$0	
Total: \$250,000	Total Expended: \$0	

PAR 1392 – HVAC High Priority Improvements (PM M. Gipe)

This project intends to evaluate, at minimum, the transfer of heating, ventilation, and air conditioning (HVAC) assets to the RWHTF and NTP HVAC Control System network. Replacement of certain HVAC assets which have reached or exceeded their service life will also be evaluated, as well as addressing operational issues of certain other HVAC fixed assets at both plant sites.

FAR Authorized: \$250,000	Expended: \$50,766	Work Completed: 60%
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PAR 1399 – Support Facilities Master Plan (PM P. Gehlhoff)

This project’s scope includes developing a master plan for all support facilities at the RWHTF and NTP. It will identify space requirements including future staff projections, functional adjacencies, and work environment trends and will serve as a guide to future capital construction projects. Interviews with staff have been completed and a spatial analysis is currently being undertaken. Conceptual workshops are being conducted in February and March of 2022.

GEN Authorized: \$250,000	Expended: \$24,623	Work Completed: 50%
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PAR 1407 – Warehouse Assessment and Use Plan (PM S. Light)

This project included an informal internal Assessment and Use Plan which developed a configuration and floor plan of racking and travel corridors to address warehousing activities. Equipment installation was completed in late 2021.

GEN Authorized: \$250,000	Expended: \$0	Work Completed: 30%
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PAR 1412 – Administration Office Remodel 2021-22 (PM P. Gehlhoff)

This project will provide updates to the Administration Building at the RWHTF to improve internal communication within departments. It will also provide improved work environments based on department-specific responsibilities and workplace interactions. Interviews to understand staff requirements have been conducted and the project is in design.

GEN Authorized: \$250,000	Expended: \$0	Work Completed: 40%
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Work Completed – Closeout in Routing:

PAR 1291 – RWHTF Operations and Maintenance Floor Rating Analysis (PM A. Norford)

This project evaluated RWHTF loading of floors of facilities and areas where access to operations and maintenance equipment is required for equipment loads as specified by maintenance

GEN Authorized: \$50,000	Expended: \$24,975	Work Completed: 100%
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PAR 1341 – Portable Emergency Safety Shower – Disinfection 2018 (PM O. West)

This project purchased and installed portable showers along with other equipment to protect staff from exposure to chemicals used in the disinfection process.

GEN Authorized: \$90,000	Expended: \$87,789	Work Completed: 100%
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Closed Projects:

PAR 1361 – Annual Charges Metering Audit (PM P. Holland)

This project audited Metro Water Recovery's practices to measure meter flow, inspect and calibrate flow meters, and verify the flow data collected to ensure consistent, accurate, and reliable flow metering.

Closing this project rescinded \$54,632 back into the small projects general fund.

GEN Authorized: \$150,000	Expended: \$95,368	Work Completed: 100%
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PAR 1366 – 2019 Environmental Assessment & Response Program (PM B. Peshek)

This project allowed Metro Water Recovery to participate in several legislative, regulatory, and policy development processes in 2019 and 2020 by allocating funding for outside counsel.

Closing this project rescinded \$1,469 back into the small projects general fund.

GEN Authorized: \$100,000	Expended: \$98,531	Work Completed: 100%
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Expanding Understanding of Biological Systems Through Molecular Methods

Microorganisms are central to wastewater treatment, whether in their utilization for treatment or ensuring inactivation of pathogens for protection of human health. In the secondary process, thousands of microorganisms coexist and are vital for treatment, but few have been fully identified and their functions understood. And while wastewater systems have utilized microorganisms for over a century, there is growing interest in targeted conditioning of these populations to select for specific groups and optimize their composition and behavior to improve treatment, increase capacity, and reduce energy intensity. Expanding identification and knowledge of microorganisms will improve data-driven decision making and this information could prove vital in efforts to reduce capital infrastructure, energy consumption, and reliance on chemicals.

Traditionally, Metro Water Recovery has heavily relied on established methods to characterize microbial communities, such as metabolic testing and microscopic analyses. While these “old school” methods are still highly valuable for operations and quality control, they have limited ability to more specifically identify and quantify previously uncharacterized communities. It can also take days to return the results of analyses, limiting the ability to react to changing conditions in a timely fashion.

Molecular technologies are gaining popularity in the wastewater industry for the information they provide about unique biological systems. These methods offer insight into the genetic composition of complex samples, which, when coupled with process data, can provide practical information on the microbial population and behavior in wastewater systems. Because these technologies are not reliant on traditional culture-based methods, they can provide rapid results in as little as three hours.

Metro Water Recovery’s Technology and Innovation Department (TID) has recently invested in molecular instruments to expand Metro’s toolset for answering complex biological questions. These instruments will be used to detect and quantify the genetic material of wastewater microorganisms using a technique called quantitative polymerase chain reaction (qPCR).

Biological Treatment at the Robert W. Hite Treatment Facility

Metro Water Recovery relies on biological systems to remove organic matter and nutrients in both the North Secondary (NSEC) and South Secondary (SSEC) activated sludge processes at the Robert W. Hite Treatment Facility (RWHTF). Since it has historically been difficult to identify the exact species performing the work, the industry categorizes these key microorganisms based on their function. Groups of nitrifiers and denitrifiers are vital for the conversion of ammonia to nitrate and the subsequent conversion of nitrate to nitrogen gas.

Story continues on next page

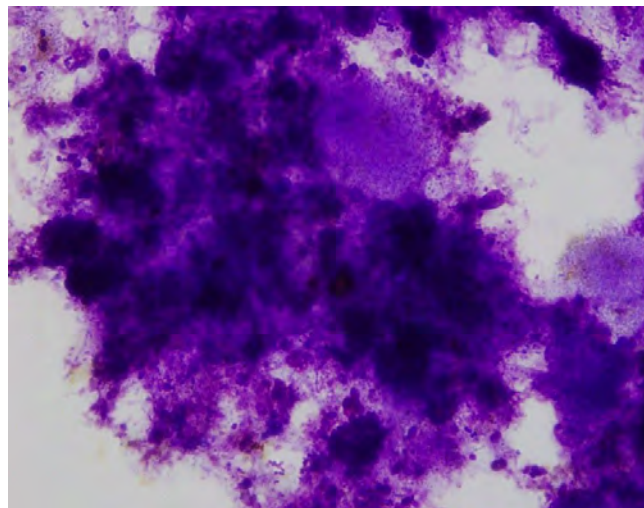


Figure 1: Microscope image of phosphorus accumulating organism clumps inside a floc sample collected in an aeration basin at the RWHTF.

Meanwhile, phosphorus accumulating organisms (PAOs) are responsible for removing phosphorus from the wastewater stream. Process engineers and operators work hard at manipulating the environmental conditions in the activated sludge process to select for certain microorganisms, improving process performance, and assuring Metro Water Recovery is achieving sufficient nutrient removal. Before molecular tools were available to quantify key organisms within the treatment process, microscopes and other proxies were used to estimate the types and abundance within the system (Figure 1). While qualitative methods like microscopy are still highly valuable for characterizing microbial populations, the ability to rapidly target and quantify more specific organisms can provide new insight into how these populations change and adapt over time to varying conditions.

In addition to organisms which remove nutrients, wastewater treatment plants also pay particular interest to another key microbe, *Escherichia coli* (*E. coli*). The Environmental Protection Agency (EPA) requires wastewater plants to monitor their effluent for indicator organisms such as *E. coli* to assure their

discharge is safe for human recreation and the natural environment. Although most strains of *E. coli* are harmless to humans, high *E. coli* counts act as an indicator other harmful microorganisms may be present. Staff monitors *E. coli* levels daily in the effluent of both the north treatment train and the south treatment train. Samples are collected at the North and South Outfalls and analyzed using a metabolic test from IDEXX which detects the presence of an enzyme unique to *E. coli*.

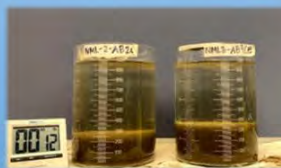
Results are available to operational staff 24-48 hours after collection, and operators use this information to adjust the operation of the peracetic acid (PAA) disinfection system. Although the IDEXX method is Metro Water Recovery's compliance method for monitoring *E. coli* (and will continue to be used to report *E. coli* levels to the state for regulatory compliance), it's difficult for operators to use results from two days prior to inform instantaneous PAA dosing. However, the molecular instruments at Metro will provide rapid detection of *E. coli*, enabling operators to make real-time adjustments to optimize disinfection.

Story continues on next page

MOLECULAR WORKFLOW



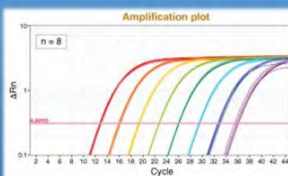
SAMPLE COLLECTION



SAMPLE SETTING



SAMPLE PROCESSING



QPCR



DNA QUANTITATION



DNA EXTRACTION

Figure 2: A proposed molecular workflow.





Piloting Molecular Methods for *E.coli* Detection

Later this year, TID will be launching Metro Water Recovery's first molecular experimental plan. Process engineers and analytical support specialists will begin by comparing samples from the pilot and control basins in the NSEC. Next, they will extract DNA from the samples so they can be analyzed with the appropriate qPCR assay, which targets a gene which codes for an *E. coli* enzyme involved in protein synthesis. These results will be used to more fully understand the significant difference in *E. coli* concentrations from the pilot basin.

As TID works to execute their first molecular experiment, there is hope this same qPCR assay may be applied to other objectives at Metro Water Recovery, including more rapid quantification of *E. coli* before and after disinfection for greater optimization of PAA dosing. By engaging with partner utilities with similar capabilities, staff will identify further opportunities to employ these methods. While Metro's current program is in the early stages of development, the growth and interest in these analyses is growing, and the potential to provide insight into fundamental wastewater biological questions is both powerful and limitless.



Figure 3, Above: E.coli bacteria under a microscope. Photo courtesy of Shutterstock.com.

Figure 4, Left: Aeration basin at the RWHTF, where samples are collected.

Metro Water Recovery continues to explore innovative approaches to achieve our mission. For questions about the Innovation Quarterly report, please reach out to Blair Wisdom at bwisdom@MetroWaterRecovery.com



METRO WATER RECOVERY

MEMORANDUM

TO: Mickey Conway, Chief Executive Officer **DATE:** February 15, 2022
FROM: Andy Nelson, Director of Engineering
RE: Status of Capital Improvement Projects Report Through January 2022

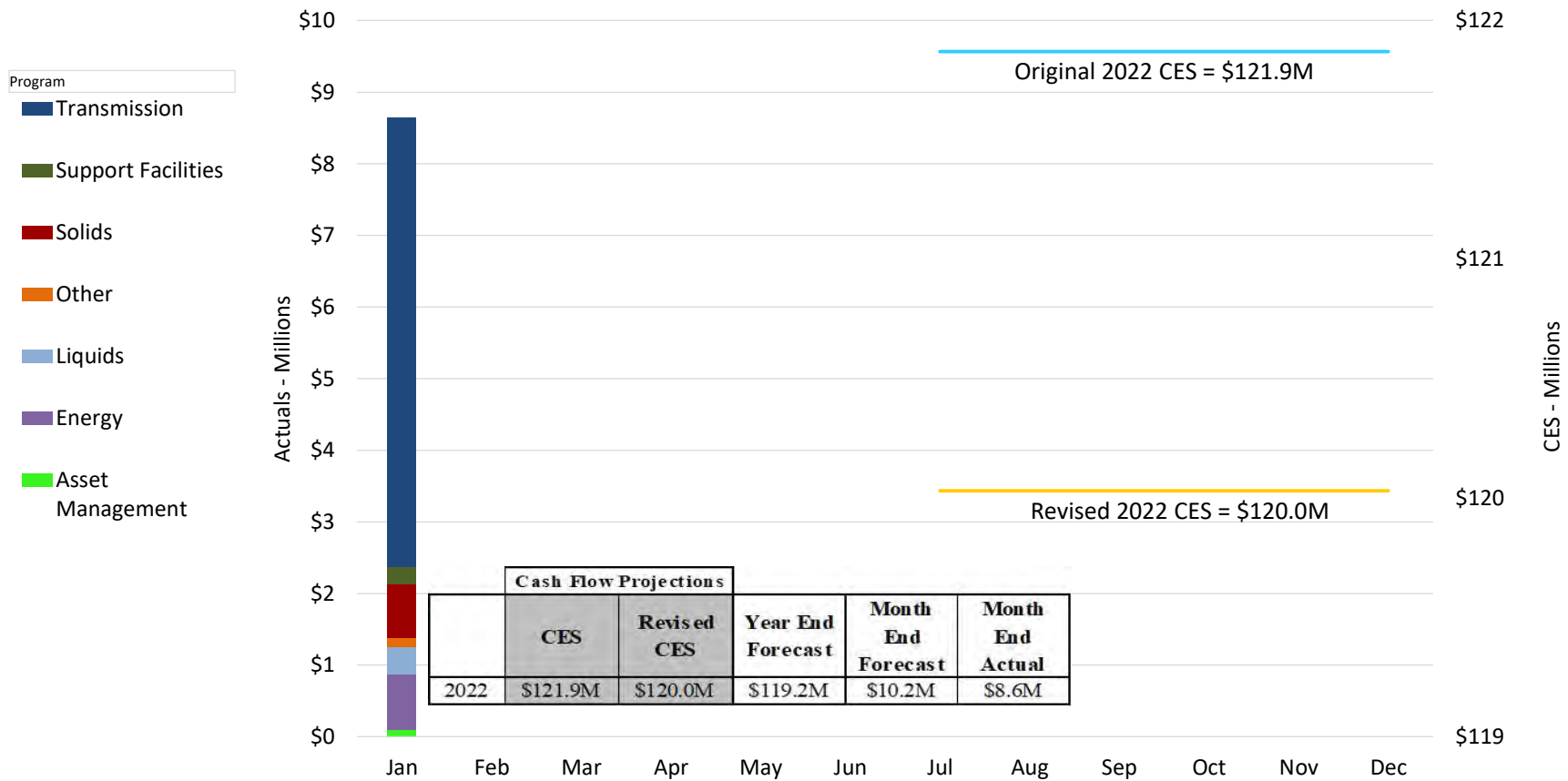
The monthly Status of Capital Improvement Projects Report provides information on capital improvement projects. The Report includes:

1. Cash Flow Projections versus Actual (Attachment 1): This bar graph provides program-wide cash flow forecast versus actual expenditures and the capital program's monthly cash flow projections for the current year. Content includes the 2022 *Ten-Year Capital Expenditure Schedule* (CES) amount, the Revised 2022 CES amount, dollars spent to date on all capital projects (by Program) and forecast of expenditures. The legend is shown on the attachment.
2. Five-Year Schedule (Attachment 2): This bar graph provides basic project schedule information for significant projects which are currently active or will be initiated in the near term. Content includes the Project Action Request (PAR) number, project name, and a five-year project schedule window showing the previous and current years plus the next three years. The legend is shown on the attachment.
3. Monthly Capital Project Financial Status Report (Attachment 3): This table provides financial information on large capital projects. Content includes general project information, active phase, and total project cost information. The Definitions Page provides a definition of certain columns and how each column's value is calculated.

Attachments

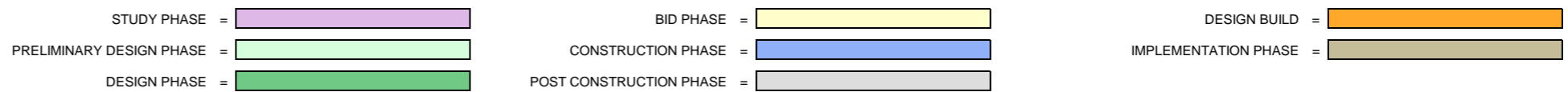
Attachment 1

CAPITAL IMPROVEMENT PROJECTS 2022 Cash Flow Projections versus Actual through January 2022



Attachment 2 CAPITAL IMPROVEMENT PROJECTS Five-Year Schedule

PAR	PROJECT	2021												2022												2023												2024												2025											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	<i>SUPPORT FACILITIES</i>																																																												
1235	RWHTF Support Facilities Upgrade 2014	[Gantt bar: 2021 Jan-Aug, 2022 Jan-May]																																																											
1369	TSB FARs and Improvements	[Gantt bar: 2021 Jan-Mar, 2022 Jan-Jul]																																																											
	<i>ASSET MANAGEMENT</i>																																																												
1379	2020 Annual Fixed Asset Replacement Priorities	[Gantt bar: 2021 Jan-Dec]																																																											
1408	Potable Waterline Replacement	[Gantt bar: 2021 Sep-Dec, 2022 Jan-Mar]																																																											
	<i>LIQUIDS</i>																																																												
1225	South Headworks and Grease Processing Improvements	[Gantt bar: 2021 Jan-Jul]																																																											
1400	PAA Disinfection System Improvements	[Gantt bar: 2021 May-Aug, 2022 Jan-May, 2023 Jan-Jul]																																																											
	<i>SOLIDS</i>																																																												
1244	Solids Processing Building Improvements	[Gantt bar: 2021 Jan-May]																																																											
1259	Digester Complex Rehabilitation	[Gantt bar: 2021 Jan-Mar]																																																											
	<i>ENERGY</i>																																																												
1202	HID Lighting Improvements	[Gantt bar: 2021 Jan-Feb]																																																											
1265	Electrical Transmission Service Substation	[Gantt bar: 2021 Jan-May, 2022 Jan-Jul]																																																											
1333	TU-8 Load Center and Transformer Replacement	[Gantt bar: 2021 Jan-Feb]																																																											
1368	Cogeneration Building and System Rehabilitation	[Gantt bar: 2021 Jan-Mar]																																																											
	<i>TRANSMISSION</i>																																																												
1232	Second Creek Interceptor Sand Creek Interceptor System Improvements	[Gantt bar: 2021 Jan-Dec]																																																											
1312	Lift Station (TNW & DM)	[Gantt bar: 2021 Jan-May, 2022 Jan-Jul]																																																											
1325	Transmission System Rehabilitation 2020	[Gantt bar: 2021 Jan-Feb]																																																											
1340	Force Main and Siphon Condition Assessment and Cleaning	[Gantt bar: 2021 Jan-May]																																																											
1343	National Western Center Delgany Interceptor Relocation	[Gantt bar: 2021 Jan-May]																																																											
1363	Interceptor Rehabilitation 2020-2022	[Gantt bar: 2021 Jan-Mar, 2022 Jan-Jul]																																																											





Attachment 3 Monthly Capital Projects Financial Status Report

						ACTIVE PHASE									TOTAL PROJECT				
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
PAR #	Project Name	Active Phase	Deliv Meth	Consultant(s)	Contractor(s)	Appropriations	Consultant			Contractor			Other Tasks	Remaining Contingency	Costs to Date	Total Project Cost Estimate	Total Appropriations	Total Costs to Date	Total Variance
							Contracts	Amendments	%	Contracts	Change Orders	%							
Support Facilities																			
1235	RWHTF Support Facilities Upgrade 2014	Construction	DBB	Stantec Consulting Services, Inc	JHL Constructors, Inc	\$51,366,664	\$4,470,513	\$381,747	9.3%	\$44,573,417	\$2,184,981	5.2%	\$974,458	\$1,348,276	\$49,607,846	\$54,500,000	\$54,500,000	\$52,725,831	\$1,774,169
1369	TSB FARs and Improvements	Construction	DBB	Metro Water Recovery	TCC Corporation	\$540,300	\$17,500	\$0	0.0%	\$388,882	\$0	0.0%	\$81,944	\$51,974	\$286,444	\$540,300	\$540,300	\$286,444	\$253,856
Sub Total for Support Facilities :						\$51,906,964	\$4,488,013	\$381,747		\$44,962,299	\$2,184,981		\$1,056,402	\$1,400,250	\$49,894,289	\$55,040,300	\$55,040,300	\$53,012,275	\$2,028,025
Asset Management																			
1379	Annual Fixed Asset Replacement Priorities	Construction	N/A	NEI	Moltz and Sturgeon	\$7,375,000	\$140,000	\$0	0.0%	\$6,725,000	\$0	0.0%	\$10,000	\$500,000	\$0	\$11,728,000	\$11,728,000	\$2,635,568	\$9,092,432
1408	Potable Waterline Replacement	Construction	N/A	Adams County	Adams County	\$815,000	\$0	\$0	0.0%	\$650,000	\$0	0.0%	\$25,000	\$140,000	\$9,029	\$815,000	\$815,000	\$9,029	\$805,972
Sub Total for Asset Management :						\$8,190,000	\$140,000	\$0		\$7,375,000	\$0		\$35,000	\$640,000	\$9,029	\$12,543,000	\$12,543,000	\$2,644,596	\$9,898,404
Liquids																			
1225	South Headworks and Grease Processing Improvements	Construction	DBB	Carollo Engineers, Inc	MWH Constructors, Inc	\$67,124,067	\$8,547,100	\$2,461,200	40.4%	\$56,183,905	\$3,183,914	6.0%	\$2,393,062	\$0	\$64,498,297	\$71,498,000	\$71,498,000	\$68,873,700	\$2,624,300
1400	PAA Disinfection System Improvements	Pre-Design	CMAR	CDM Smith, Inc.	N/A	\$780,910	\$780,910	\$0	0.0%	\$0	\$0	0.0%	\$0	\$0	\$210,018	\$13,000,000	\$2,200,000	\$214,709	\$1,985,291
Sub Total for Liquids :						\$67,904,977	\$9,328,010	\$2,461,200		\$56,183,905	\$3,183,914		\$2,393,062	\$0	\$64,708,315	\$84,498,000	\$73,698,000	\$69,088,409	\$4,609,591
Solids																			
1244	Solids Processing Building Improvements	Construction	DBB	Brown And Caldwell	MWH Constructors, Inc	\$89,637,329	\$8,256,942	\$15,688	.2%	\$76,122,822	\$1,927,057	2.6%	\$840,000	\$4,417,565	\$72,691,333	\$96,757,000	\$96,757,000	\$79,746,524	\$17,010,476
1259	Digester Complex Rehabilitation	Construction	DBB	Carollo Engineers, Inc	Moltz Construction, Inc	\$32,550,999	\$3,115,000	\$358,000	13.0%	\$28,407,870	\$10,479,870	58.5%	\$1,028,129	\$0	\$31,318,714	\$33,859,393	\$33,859,393	\$32,414,716	\$1,444,677
Sub Total for Solids :						\$122,188,329	\$11,371,942	\$373,688		\$104,530,692	\$12,406,927		\$1,868,129	\$4,417,565	\$104,010,047	\$130,616,393	\$130,616,393	\$112,161,240	\$18,455,153
Energy																			
1202	HID Lighting Improvements	Construction	DBB	Dewberry Engineering	Guarantee Electric	\$2,777,972	\$232,080	\$0	0.0%	\$2,200,234	\$24,487	1.1%	\$31,600	\$314,058	\$2,245,198	\$3,431,000	\$3,340,600	\$2,780,906	\$559,694
1265	Electrical Transmission Service Substation	Pre-Design	CMAR	NEI	N/A	\$1,111,000	\$1,111,000	\$0	0.0%	\$0	\$0	0.0%	\$0	\$0	\$860,677	\$39,700,000	\$2,927,500	\$989,412	\$1,938,088
1333	TU-8 Load Center and Transformer Replacement	Construction	DBB	NEI	Moltz Construction, Inc	\$9,021,196	\$966,000	\$0	0.0%	\$7,261,472	\$216,972	3.1%	\$184,000	\$609,724	\$8,171,010	\$9,877,200	\$9,877,200	\$8,936,087	\$941,113
1368	Cogeneration Building and System Rehabilitation	Construction	N/A	Metro Water Recovery	N/A	\$800,000	\$0	\$0	0.0%	\$0	\$0	0.0%	\$700,000	\$100,000	\$524,184	\$800,000	\$800,000	\$524,184	\$275,816
Sub Total for Energy :						\$13,710,167	\$2,309,080	\$0		\$9,461,706	\$241,459		\$915,600	\$1,023,781	\$11,801,068	\$53,808,200	\$16,945,300	\$13,230,589	\$3,714,711



Attachment 3 Monthly Capital Projects Financial Status Report

						ACTIVE PHASE								TOTAL PROJECT					
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
PAR #	Project Name	Active Phase	Deliv Meth	Consultant(s)	Contractor(s)	Appropriations	Consultant			Contractor			Other Tasks	Remaining Contingency	Costs to Date	Total Project Cost Estimate	Total Appropriations	Total Costs to Date	Total Variance
							Contracts	Amendments	%	Contracts	Change Orders	%							
Transmission																			
1232	Second Creek Interceptor and Sand Creek Interceptor System Improvements	Construction	CMAR	HDR Engineering, Inc	Garney Construction	\$163,425,473	\$13,830,000	\$0	0.0%	\$133,342,890	\$680,360	.5%	\$5,000,000	\$11,252,583	\$49,892,808	\$194,309,000	\$192,901,417	\$69,919,991	\$122,981,426
1312	Lift Station (TNW & DM)	Construction	CMAR	Stantec Consulting Services, Inc	PCL Construction	\$38,450,000	\$2,833,000	\$0	0.0%	\$31,960,000	\$0	0.0%	\$1,100,000	\$2,557,000	\$0	\$41,726,000	\$41,726,000	\$3,203,480	\$38,522,520
1325	Transmission System Structure Rehabilitation 2020	Construction	DBB	Mott MacDonald	Iron Woman Construction	\$3,568,816	\$91,996	\$1,780	2.0%	\$3,311,891	\$153,291	4.9%	\$5,000	\$159,929	\$410,296	\$4,008,316	\$4,008,316	\$774,659	\$3,233,657
1340	Force Main and Siphon Condition Assessment and Cleaning	Construction	DBB	Brown & Caldwell	Doestch Environmental Services	\$6,211,709	\$443,000	\$0	0.0%	\$5,185,585	\$0	0.0%	\$20,000	\$563,124	\$2,084,704	\$6,859,000	\$6,859,000	\$2,731,994	\$4,127,006
1343	National Western Ctr Delgany	Construction	N/A	C&C of Denver	C&C of Denver	\$7,863,073	\$0	\$0	0.0%	\$6,765,652	\$496,935	7.9%	\$10,000	\$1,087,421	\$6,576,112	\$9,196,451	\$9,196,451	\$7,009,403	\$2,187,048
1363	Interceptor Rehabilitation 2020-2022	Design	CMAR	Metro Water Recovery	Granite InLiner, LLC	\$838,000	\$754,000	\$256,000	51.4%	\$0	\$0	0.0%	\$5,000	\$79,000	\$581,785	\$28,000,000	\$18,262,000	\$7,822,193	\$10,439,807
Sub Total for Transmission :						\$220,357,071	\$17,951,996	\$257,780		\$180,566,018	\$1,330,586		\$6,140,000	\$15,699,057	\$59,545,703	\$284,098,767	\$272,953,184	\$91,461,721	\$181,491,463
Report Total:						\$484,257,508	\$45,589,041	\$3,474,415		\$403,079,620	\$19,347,867		\$12,408,194	\$23,180,653	\$289,968,451	\$620,604,660	\$561,796,177	\$341,598,830	\$220,197,347

ATTACHMENT 3 - DEFINITIONS

COLUMN	COLUMN TITLE & DEFINITION
D	<p>Delivery Method: DBB = Design/Bid/Build (Traditional Metro Water Recovery Delivery Method)</p> <p>DB = Design/Build (Progressive, Collaborative)</p> <p>CMAR = Construction Manager at Risk</p> <p>N/A = Studies, Facility Plans</p>
G	Appropriation(s) = Total available appropriation for the active phase. Includes requested appropriation number in the Board resolution for the active phase plus unused, available appropriation from any previous phase or phases.
H	Consultant Contract(s) = Original contract plus any amendments (for the active phase). May include more than one consultant contract.
I	Consultant Amendments = Summation of all consultant amendments (for the active phase).
J	Consultant Amendment % = The consulting amendments as a percentage of the original consulting services contract (for the active phase).
K	Contractor Contract(s) = Original contract plus any change orders (for the active phase). A typical project has only one contractor (General Contractor).
L	Change Orders = Summation of change orders (for the active phase).
M	Construction Change Order % = Change Orders as a percentage of the original construction contract (for the active phase).
N	Other Tasks = Administrative costs, materials testing, owner-purchased equipment, land/easement acquisition, etc.
O	Remaining Contingency = Original appropriated contingency minus the portion of contingency used for amendments, change orders, or other tasks.
P	Costs to Date = Active phase payments made as of the report date (shown in the report's upper left corner).
Q	Total Project Cost Estimate (TPCE) = Total appropriations or project cost amount as shown in the <i>Capital Expenditure Schedule (CES)</i> .
R	Total Appropriations = Total requested appropriation amount in the Board resolution. This value is a summation of appropriations from all project phases to date.
S	Total Costs to Date = Payments made as of the report date (shown in the report's upper left corner). This amount is a summation of all payments for all project phases to date.
T	Total Variance = Total Appropriations minus Total Costs to Date. Includes remaining portion of agreements, contracts, other tasks, and contingency.

METRO WATER RECOVERY

CURRENT ACTIVITIES/OPERATIONAL PERFORMANCE REPORT

January 2022 – February 2022

OPERATIONS DEPARTMENT Current Activities

Post-Aerobic Digester Optimization Continues at NTP

The Post-Aerobic Digester (PAD) process at the Northern Treatment Plant (NTP) is only one of three installations in the United States. It is also unique entirely unto itself, as all three units are built and operated differently from one another. As it is a novel process to Metro Water Recovery and the industry, NTP Operations and Maintenance (O&M) Department, Technology and Innovation Department (TID), and the Control Systems Group (CSG) have been collaborating to optimize PAD performance. The process has already undergone several optimization efforts relating to process cooling and chemical alkalinity addition, but even so, the process has much more room to grow in the realm of optimization and data gathering.



Josh Monsrud explains the PAD control logic changes to NTP Operations staff

One recent effort made by all three groups has been the altering of PAD's aeration control strategy. PAD can be run with various air flow rates and typically runs an aerobic period for a set time (to allow the biology to reduce ammonia through nitrification), followed by an anoxic period with no aeration (to allow other organisms to reduce the nitrate produced through the initial nitrification period). Previously, PAD's aeration cycles and flow rates have been controlled manually by NTP Operations, adjusting the air flow and airtime on/off as needed. However, with the help of TDI, Inline Instrumentation, and CSG, a new aeration controller was developed in-house to provide more hands-off, sophisticated control of aeration in the process.

The new aeration controller is still in the testing phase but will eventually run off pH control. While dissolved oxygen or ammonia control would be preferred in this application, there are significant complications with instrumentation in this location which prevents using these analytes for control. One of the few instruments which performs well in PAD is the pH probe, which is being used as the indicator for aeration needs (the more ammonia is nitrified and uses oxygen, the lower the pH drops). The new control strategy will allow NTP Operations to control the nitrification in PAD in a more sophisticated manner, by using the real-time pH data to control aeration rates and stabilize the pH.

This new control strategy is just one facet of the optimization efforts related to NTP's PAD process. Ultimately, when more is learned about the process' efficacy and O&M needs, feasibility assessments and cost analyses will be performed to evaluate the long-term options for NTP's sidestream treatment – PAD versus other alternatives like AnitaMox and MagPrex™.

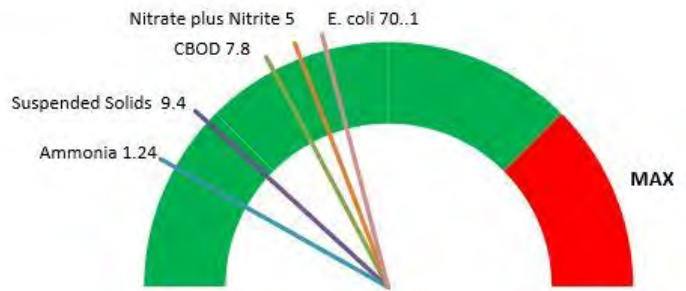
**Robert W. Hite Treatment Facility (RWHTF)
Permit Compliance Performance—January 2022**

Discharge Permit/Limits and Effluent Quality

<u>Parameter</u>	<u>Max. Limit</u>
Suspended Solids, mg/L, 30-day ^a	30.00
CBOD, mg/L, 30-day ^b	17.00
Ammonia (NH ₃) mg/L, 30-day	5.70
Nitrate plus Nitrite, mg/L, Daily	9.80
E. coli per 100 mL, 30-day	126.00

(a) 7-day average is higher than average due to an outlying data point. Data is being reviewed.

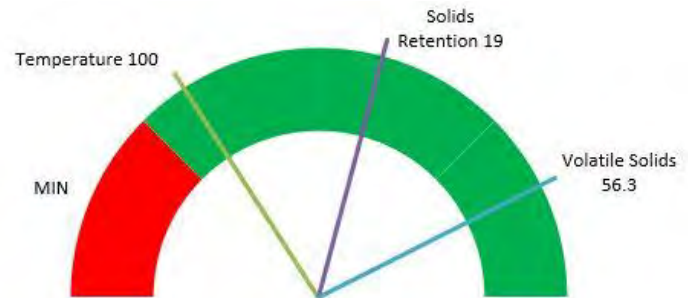
(b) 7-day average is higher than average due to outlying data points. Data is being reviewed.



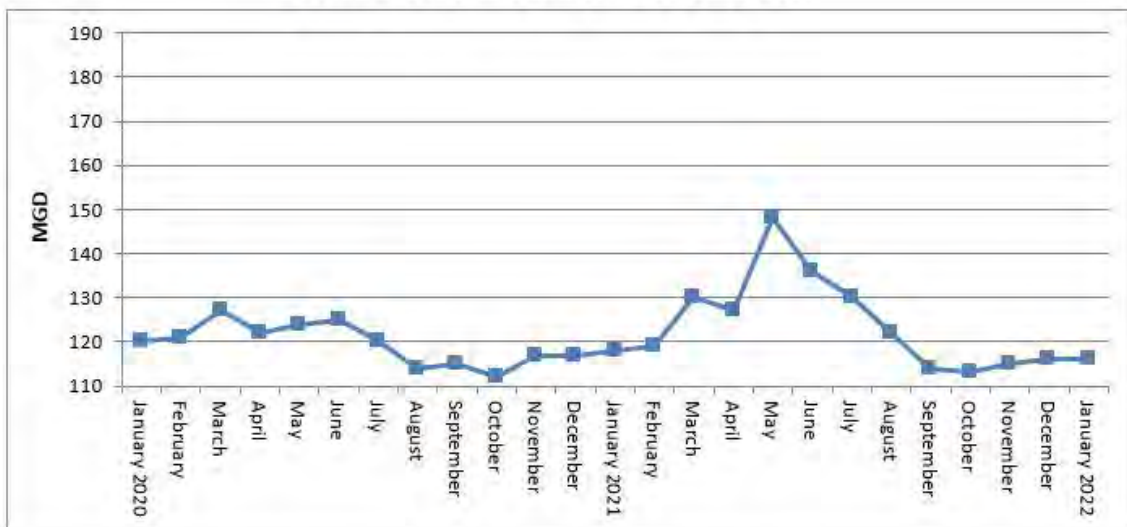
503 Regulations/Anaerobic Digester Limit

<u>Parameter</u>	<u>Min. Limit</u>
Temperature—Monthly Average °F	95 ¹
Solids Retention – Days	15
Volatile Solids Percent Reduction – Monthly Average	38

¹ A maximum limit also applies; the maximum allowable regulatory monthly average temperature is 131°F.



RWHTF Total Plant Effluent Flow 2020-2022

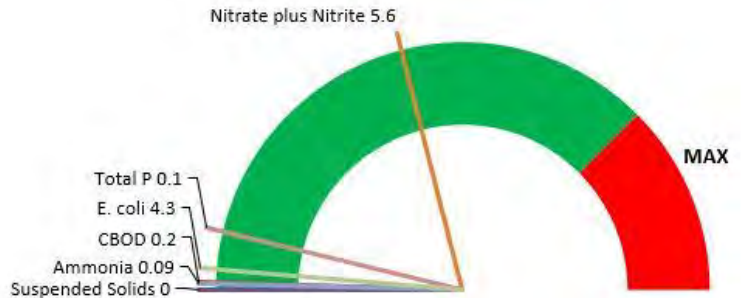


**Northern Treatment Plant (NTP)
Permit Compliance Performance—January 2022**

Discharge Permit/Limits and Effluent Quality

<u>Parameter</u>	<u>Max. Limit</u>
Suspended Solids, mg/L, 30-day	30.00
CBOD, mg/L, 30-day	17.00
Ammonia (NH ₃) mg/L, daily	8.09
Nitrate plus Nitrite, mg/L, daily	10.00
E. coli, per 100 mL, 30-day	126.00
Total Phosphorus mg/L, running annual median	1.00

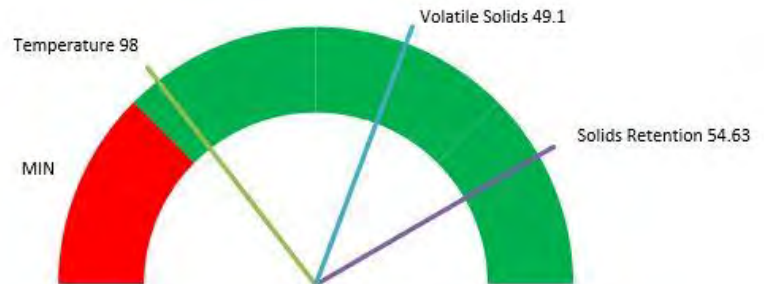
Performance



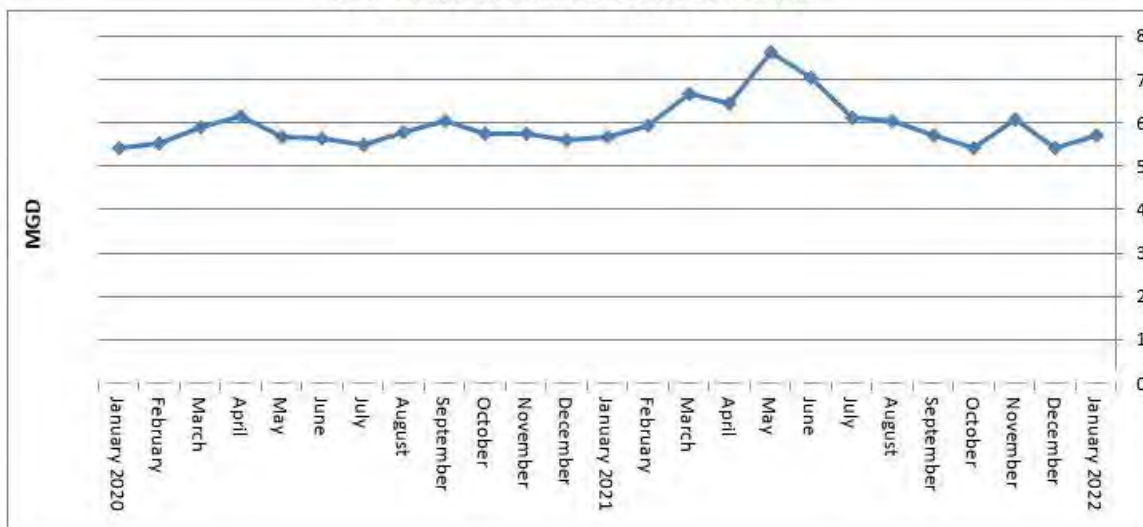
503 Regulations/Anaerobic Digester Limit

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Temperature—Monthly Average °F	95 ¹
Solids Retention – Days	15
Volatile Solids Percent Reduction – Monthly Average	38

¹ A maximum limit also applies; the maximum allowable regulatory monthly average temperature is 131°F.



NTP Total Plant Effluent Flow 2020-2022



MAINTENANCE DEPARTMENT
Current Activities

New Signs

Last year, Metro Water Recovery’s Wellness program conducted an assessment which resulted in a low score in the “family-friendly” category. A family-friendly workplace is one which makes it possible for employees to balance family and work more easily. Installing these signs was identified as a goal from this effort.

This goal was presented as a project and opportunity for the Facilities Maintenance (FM) grounds crew. The FM staff arranged for having the signs made, and then installed them in several of the larger employee parking lots around the facility. Although this is not a very significant or difficult project it is a great example of the work this crew does that often goes unnoticed. The work was done with great pride and attention to detail.

Pictured is one of the installed signs outside the Warehouse Maintenance Services (WMS) building.



New sign at the WMS building

Current Maintenance Summary—January 2022

January 2022	Jobs Completed	Overtime ^a	Priority 0 ^{a,b}
Process Maintenance	651	4.60%	3.60%
Facilities Maintenance	460	0.10%	0.00%

^a Target overtime and Priority 0 rate is 5 percent or less.

^b Priority 0 work orders address critical safety, permit, and production issues.

RESOURCE RECOVERY and REUSE (RR&R) DEPARTMENT
Current Activities

Interceptor System



Crew mobilization

While the primary goal of the Transmission Operations Division is to ensure the interceptor system performs flawlessly as it conveys flows to the central treatment plant, the division is also responsible for responding to emergency repairs to Metro Water Recovery's underground systems. For example, on January 13, 2022, the Robert W. Hite Treatment Facility (RWHTF) experienced a six-inch potable water line break, and the Transmission Operations Division was notified to coordinate a response to address the situation. The Transmission Operations Division worked as a team to isolate the potable water line leak and

then developed a plan to repair the line break.

On January 17, 2022 the Transmission crew mobilized a jet truck to safely hydro-excavate the work area to locate the line break. Hydro-excavation is employed whenever the underground utilities are unknown or where the area is congested with utilities and digging with a backhoe is unsafe. Unlike a backhoe, hydro-excavation will not harm any buried utilities if hit during excavation. Hydro-excavation proved advantageous in locating the line break as the area was congested with known utilities, such as an electrical duct bank and several unknown utilities. The cause of the leak was determined to be a beam break due to ground settlement. The Transmission crew employed a six-inch by 12-inch clamp to fix the leak and then pressure tested the repair. The Operations crew then flushed and conducted testing of the potable water line before placing the line back in service.



Line break



Clamp repair

Restoring the potable water line to service is an excellent example of interdepartmental collaboration and resulted in a successful and safe repair. It also minimized the downtime of the potable water line and disruption to the plant site.

RR&R DEPARTMENT
Biosolids Management—January 2022

RWHTF Total Wet Tons Applied 2022 YTD

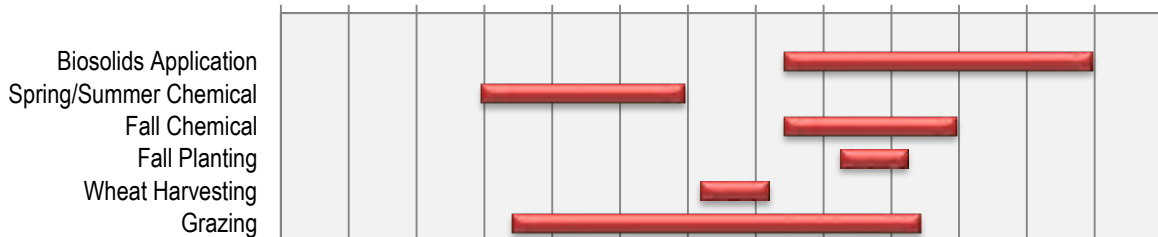


■ Private Farmer ■ METROGRO Farm

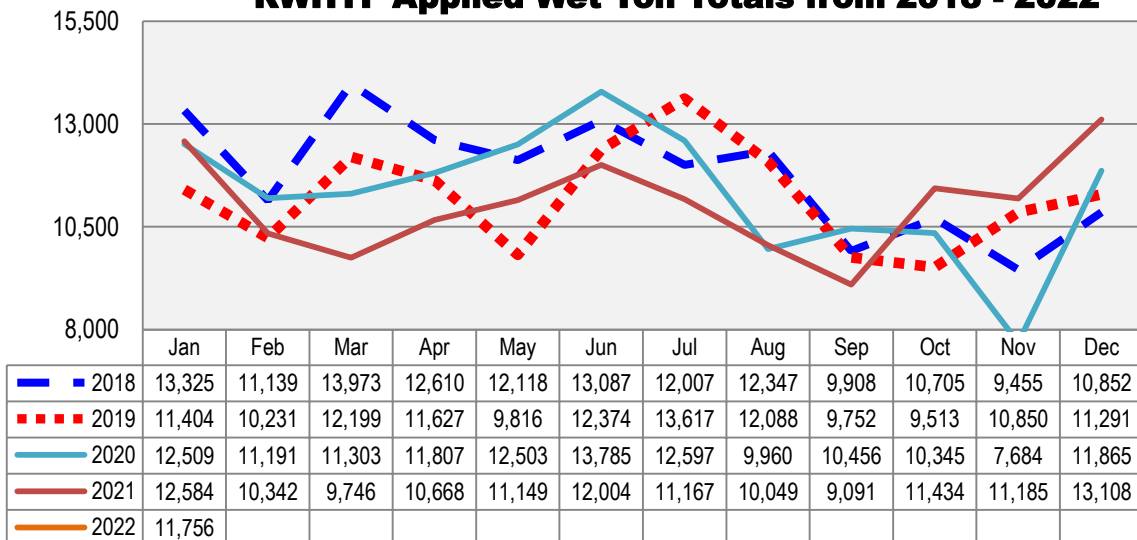
Dry Tons	January 2022	YTD 2022
RWHTF Biosolids		
METROGRO Farm	117	117
Private Farms	2,317	2,317
NTP Biosolids		
Private Composter	0	0
METROGRO Farm	97	97
METROGRO Cake (Total Solids)		
<i>(Percentage)</i>	RWHTF	NTP
Average	20.61%	21.78%
High	22.40%	22.10%
Low	19.80%	20.90%

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV

METROGRO Farm Schedule 2022



RWHTF Applied Wet Ton Totals from 2018 - 2022



METRO WATER RECOVERY

Board of Directors Upcoming Events

Directors are provided information on upcoming events in the monthly committee meeting packets and Chief Executive Officer's Report in the Board packet. Any new information is shown in **bold italics**. Please add applicable meeting dates to your calendars.

<u>Date</u>	<u>Event/Location</u>
Tuesday, March 1, 2022 Immediately following Operations Committee	Tour of the Robert W. Hite Treatment Facility
Thursday, March 3, 2022 Immediately following Finance Committee	Budget Workshop Boardroom
Thursday, April 7, 2022 9 a.m. or directly following Finance	Audit Committee Boardroom
Thursday, April 7, 2022 Immediately following Finance	Tour of the Robert W. Hite Facility
Thursday, April 28, 2022 8 a.m. (breakfast served at 7 a.m.)	Spring Board Workshop Northern Treatment Plant Visitor Center Presentation Room
Thursday, May 26, 2022 7:30 a.m. (breakfast served at 7 a.m.)	Defined Benefit Plan Retirement Board Boardroom
Thursday, May 26, 2022 12 p.m. (lunch served at 11:30 a.m.)	Defined Contribution Plan Retirement Board Boardroom
Wednesday, June 15, 2022 TBD	Spring Metro 6.0 Town Hall/Field Day TBD
Wednesday, June 22, 2022 TBD	Bike to Work Day TBD
Thursday, August 25, 2022 7:30 a.m. (breakfast served at 7 a.m.)	Defined Benefit Plan Retirement Board Boardroom
Thursday, August 25, 2022 12 p.m. (lunch served at 11:30 a.m.)	Defined Contribution Plan Retirement Board Boardroom
Thursday, October 27, 2022 8 a.m. (breakfast served at 7 a.m.)	Fall Board Workshop Boardroom
Thursday, November 3, 2022 9 a.m. or directly following Finance	Audit Committee Boardroom

<u>Date</u>	<u>Event/Location</u>
Wednesday, November 9, 2022 TBD	Fall Metro 6.0 Town Hall TBD
Thursday, November 10, 2022 7:30 a.m. (breakfast served at 7 a.m.)	Defined Contribution Plan Retirement Board Boardroom
Thursday, November 10, 2022 2 p.m.	Defined Benefit Plan Retirement Board Boardroom
Tuesday, December 20, 2022 5 p.m.	Annual Employee Recognition Reception Prior to Board of Directors Meeting

METRO WATER RECOVERY

Spring Workshop

Thursday, April 28, 2022, 8 a.m.

Northern Treatment Plant

Save the date!

Breakfast available at 7 a.m., Presentations until approximately 2:30 p.m.

