

GARRISON DIVERSION CONSERVANCY DISTRICT
ENGINEERING & OPERATIONS COMMITTEE

Roosevelt Grand Dakota Hotel
Dickinson, North Dakota
July 19, 2023

A meeting of the Engineering & Operations Committee of the Garrison Diversion Conservancy District was held at the Roosevelt Grand Dakota Hotel in Dickinson, North Dakota, on July 19, 2023. The meeting was called to order by Chairman Tweed at 8:30 a.m.

MEMBERS PRESENT

Board Chairman Alan Walter
Committee Chairman Mike Tweed
Director Cliff Hanretty
Director Jeff LeDoux
Director Jim Pellman
Secretary Kip Kovar

OTHERS PRESENT

Staff members of the Garrison Diversion Conservancy District were present along with others. The registration sheet is attached to these minutes as Annex I.

The meeting was recorded to assist with compilation of the minutes.

READING OF THE MINUTES

Motion by Director Hanretty to dispense with a reading of the January 12, 2023, Engineering & Operations Committee minutes and approve them as distributed. Second by Director LeDoux. Upon voice vote, motion carried.

MCCLUSKY CANAL REFERENCE MAP

Ryan Anderson, Engineer, Garrison Diversion, referred to the McClusky Canal map, stating this is provided as a reference for canal locations.

FIVE-YEAR OPERATION, MAINTENANCE & REPLACEMENT PLAN

Mr. Anderson presented and reviewed the 2023-2027 Five-Year Operation, Maintenance & Replacement (OM&R) Plan dated July 10, 2023, which is submitted annually to the Bureau of Reclamation (Reclamation). This lays out the O&M job duties, along with milestones and completion dates. A copy of the OM&R Plan is attached to these minutes as Annex II. Mr. Anderson added the 2023 OM&R budget is \$4,010,122.

Motion by Director Walter to approve the 2023-2027 Five-Year Operation, Maintenance & Replacement Plan. Second by Director Pellman. Upon roll call vote, the following directors voted aye: Hanretty, LeDoux, Pellman, Tweed and Walter. Those voting nay: none. Motion carried.

2023 WORK PLAN UPDATE

McClusky/New Rockford Report - - Darren Murray, Superintendent, Operations & Maintenance (O&M), Garrison Diversion, provided an update on the 2023 spring/summer work activities performed by the O&M crew at the McClusky and New Rockford sites, which included photos.

Larger work items included the slide repair project, road project at Stump Lake, moving camp host onto East Park, gravel stockpiling and asphalt removal project at the New Rockford shop.

Mr. Anderson shared photos of and explained the work performed by the O&M crew at Stump Lake, which involved raising the road to access Engel's Point.

Mr. Anderson added there was about an 80% cost overrun on the project due to the extra fill that was needed and the increased price of rock. The original cost estimate in 2019 was \$170,000. The project was delayed pending the permit from the Corps of Engineers. The final project cost was approximately \$310,000. The Department of Transportation grant is around \$100,000.

Snake Creek Pumping Plant Report - - Dustin Offerdahl, Plant Supervisor, Snake Creek Pumping Plant (SCPP), updated the committee on the projects and activities at the SCPP via PowerPoint, including sump clean up, sewer pit repairs, installation of plant security system, pumping operation updates, facility review and Northwest Area Water Supply (NAWS) construction.

MCCLUSY CANAL SLIDE REPAIR REPORT

Mr. Anderson provided a PowerPoint presentation sharing photos of the slide repair work taking place along the McClusky Canal. Due to weather and the Stump Lake project, the slide repair work has been slow. This is the first week there has been three scrapers running all season.

Mr. Anderson said only about 1,800 loads or 30,000 cubic yards of fill have been hauled this year. There is approximately 600 feet of material left to remove, which should be completed by fall. The next step is to dig out the canal portion of the slide.

Mr. Anderson said the manholes on the three remaining trenchless tunnels have not yet arrived, but they hope to have all the drains placed by August.

Project expenses through June 2023 total \$8.8 million, which is 50% of the \$17.5 million estimated total cost.

Duane DeKrey, General Manager, Garrison Diversion, asked if Reclamation would allow the unused funds to be transferred to the MR&I Program.

Nathan Kraft, Reclamation, stated the funds will go back to Reclamation funds and will be used wherever the funds are needed, which more than likely will be the MR&I Program; however, the MR&I Program ceiling will not be increased.

Mr. Anderson added the plans are to complete the last three trenchless tunnels this year and then start on the canal prism.

2023 EQUIPMENT LIST

Mr. Kovar referred to the 2023 O&M Master Equipment List, which is provided for the committee's information.

OTHER BUSINESS

Kip Kovar, Secretary, informed the committee he was contacted by the City of McClusky regarding flooding issues the city is experiencing. They are working on a solution for this, and one of the solutions is pumping excess water into the McClusky Canal. There was a request to make a presentation to this committee today, but due to lack of time, he suggested holding another committee meeting in August to strictly address this issue.

There being no further business to come before the committee, the chairman called for a motion to adjourn.

Motion by Director LeDoux to adjourn the Engineering & Operations Committee meeting. Second by Director Pellman. Upon voice vote, motion carried.

The meeting adjourned at 9:10 a.m.

(SEAL)

Mike Tweed, Chairman

Kip Kovar, Secretary

Annex I
23-38[illegible]

**Garrison Diversion Unit
Five-Year Operation,
Maintenance &
Replacement Plan
2023-2027**

July 10, 2023

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I. PURPOSE AND OBJECTIVES

A. Purpose

The purpose of this plan is to reaffirm objectives and maintenance criteria and to present work activities and estimated funding requirements to guide the Operation, Maintenance and Replacement (OM&R) Program of constructed Garrison Diversion Unit (GDU) facilities over the next five years under a cooperative agreement between the Garrison Diversion Conservancy District (Garrison Diversion) and Bureau of Reclamation (Reclamation).

B. Objectives

The objectives of the OM&R Program are: 1) to protect the federal investment, 2) to maintain public safety, 3) to provide long-term beneficial use and public benefits, 4) to protect water, land, wildlife, and cultural resources, and 5) to provide for future operations and management of project facilities as authorized by current legislation and within current environmental analyses.

II. BACKGROUND

GDU Project facilities constructed to date include: Snake Creek Pumping Plant (SCPP), McClusky Canal, Lonetree Wildlife Management Area, New Rockford Canal, Jamestown Dam and Reservoir, Oakes Test Area (OTA) irrigation facilities, Kraft Slough Wildlife Management Area, recreation facilities, radio towers, scattered tracts wildlife development areas, Audubon and Arrowwood National Wildlife Refuge (NWR) mitigation features, State and Tribal Municipal, Rural and Industrial (MR&I) water systems, and office and shop facilities at McClusky, New Rockford, Oakes, and Carrington.

In July 1991, Reclamation entered into Cooperative Agreement No. 1-FC-60-01790 with Garrison Diversion for OM&R of the McClusky Canal, New Rockford Canal, and OTA and to provide assistance as needed on other GDU facilities. OM&R of constructed GDU facilities continued under subsequent Cooperative Agreements Nos. R91AC60001 and R11AC60005. In June 2020, Reclamation entered into contract No. 20XX620109 an Operation, Maintenance and Replacement Contract of Certain Project Works with Garrison Diversion. This five-year plan covers work proposed to be completed by Garrison Diversion under contract. Reclamation provides Garrison Diversion with the funding, from annual GDU appropriations, necessary to perform the OM&R functions. Reclamation also cooperates with Garrison Diversion in providing technical assistance on OM&R activities and administrative assistance on NEPA/NHPA compliance requirements. The Dakota Water Resources Act of 2000 (DWRA), the current legislative authority for GDU, states in part in Section 1 (g) "The Secretary shall enter into one or more

agreements with the State of North Dakota to carry out this Act, including operation and maintenance of the completed unit facilities....”.

III. GENERAL OPERATION, MAINTENANCE AND REPLACEMENT CRITERIA

- Routine OM&R of the McClusky Canal, New Rockford Canal, and Snake Creek Pumping Plant, as covered in the OM&R contract is to continue with particular focus on:
 - Protecting the federal investment
 - Maintaining a competent, well-trained OM&R work force
- Clear instances of public safety are to be given priority (i.e. structural integrity of bridges).
- Safe access is to be maintained along at least one side of the canals.
- Protection of private and public lands outside project ROWs from activities associated with OM&R of project facilities is to be given priority.
- The canal prism should be maintained to protect O&M roads, lands outside the canal ROWs, and to protect canal lining on watered canal reaches.
- At New Rockford, minimum maintenance will be provided to protect the federal investment and public safety.
- Slides on the McClusky Canal should be repaired to the extent needed to meet existing water demands. Repair measures are to be developed on a case-by-case basis.
- Measures to prevent slope failures are to proceed (i.e. V ditch drain conversions, berm drain modifications, and interceptor drains).
- Focus on efficient and economical methods to minimize costs, including contracting.
- Provide assistance with maintenance of other constructed GDU facilities as requested by Reclamation.

In 2020 Garrison Diversion entered into Contract No. 20XX620109 with Reclamation. This contract assigned responsibility for the OM&R of transferred works to Garrison Diversion. The transferred works include Snake Creek Pumping Plant (SCPP), McClusky Canal O&M (MM 0-59), McClusky Canal ROW (MM 0-59), and Carrington Headquarters. Reclamation retains the OM&R responsibilities for other project works. Garrison Diversion will complete the agreed upon routine and extraordinary work at the other project works. Other Project works include McClusky Canal O&M (MM 59-74), McClusky Canal ROW (MM59-74), McClusky Canal Recreation, New Rockford Canal & Radio Towers, Arrowwood National Wildlife Refuge, Audubon National Wildlife Refuge, Lonetree Wildlife Management Area, Scattered Tracts, Jamestown Dam, and State and Tribal MR&I.

IV. STATUS

A. McClusky

Primary construction of the McClusky Canal covered the period beginning in the early 1970s through 1980. Overall, the McClusky Canal is in acceptable condition, except for the major slide area between mile marker (MM) 20-21.5. On average, the McClusky Canal currently delivers approximately 10,000 acre-feet of water a year for uses such as irrigation, fish and wildlife mitigation and enhancement, livestock watering, recreation, water quality maintenance, and in-stream flow needs. The canal is used from MM 1 to MM 59. From MM 59 to the end, at MM 74, the canal is dewatered. Interest in contracting for irrigation water from the McClusky Canal has been increasing in recent years.

Two major areas which will need to be addressed to ensure delivery of a firm water supply which are not included in this plan are: 1) repairs to the major slide area between MM 20-21.5 (handled under a separate cooperative agreement) and 2) modification to the MM 59 Plug.

B. New Rockford

Construction of the New Rockford Canal covered the period beginning in 1983 through 1991. Overall, the New Rockford Canal is in acceptable condition. The canal does not deliver water for any use and is not in operation. Natural runoff, which accumulates in the canal, is outlet to the James River.

Significant items which need to be addressed on the canal for the future are dealing with the effects the canal has on cross drainage along its 42-mile length and how best to manage and maintain the canal given its unknown future.

C. Snake Creek Pumping Plant

Construction of the Snake Creek Pumping Plant (SCPP) covered the period beginning in 1970 through 1974. The SCPP consists of a reinforced concrete structure, three vertical shaft pumping units, and three 11-foot discharge pipes. The three pumps each have a high-head and low-head bowls to cover the required pumping head range. Each pump is powered by an 8,000 -horsepower synchronous motor with power provided from the Garrison Powerplant. The total capacity of the three pumps is 2,050 cubic feet per second.

The SCPP pumps water from Lake Sakakawea to Lake Audubon to maintain a summer target elevation of 1847 feet. Overall, the SCPP is in acceptable condition. Design of converting one of the pumps and a discharge pipe of the SCPP to an intake for the Northwest Area Water Supply is on going.

V. ROUTINE OM&R, 2023-2027

Routine OM&R of the McClusky Canal, New Rockford Canal, and Snake Creek Pumping Plant is to continue. Routine OM&R activities include facility maintenance, water operations, and maintenance at other GDU Facilities.

A. Facility Maintenance

Activities performed under facility maintenance include; building and yard maintenance, facility surveillance, vegetation control, fence maintenance, O&M road maintenance, structure maintenance, slope stabilization and drain maintenance.

Garrison Diversion personnel will perform all maintenance of buildings and yards and provide janitorial services for all office, shop, and storage facilities at SCPP, McClusky, New Rockford, and restrooms at the Chain-of-Lakes area.

Portions of canals and other facilities are monitored for slides, erosion, drainage and other problems on at least a weekly basis. Some activities, such as reading wells and monitoring water elevations and flows, have specific schedules to follow to ensure that all drainage facilities are operating correctly and desirable water levels in the canals are maintained within reason.

Vegetation management along the canals includes several control methods such as aerial and ground spraying, mowing, grazing, burning, or other biological non-chemical control methods. An annual "Vegetation Management Report" is prepared by Garrison Diversion and submitted to Reclamation to report on past and future activities.

Activities along the canal such as repairing fence, cleaning or removing cattle guards, and other general right-of-way related maintenance are performed as needed.

Blading, vegetation control on roads, graveling when needed, filling holes, clearing material deposited from small landslides, and other miscellaneous maintenance items are performed as needed on the McClusky Canal O&M roadways. County roads will be mowed in accordance with county regulations. The New Rockford Canal O&M roadways will be maintained with chemical and mowing methods, with blading only as necessary.

Maintenance on all structures will be performed as required so that structures are unobstructed and in an operable condition, a master schedule detailing all structures and a schedule for inspecting each type of structure will be maintained. A schedule will be maintained for recoating structures and equipment to improve the life, safety, operating efficiency, and appearance of the structures and equipment.

Reclamation will conduct certified bridge inspections biennially on all Type I bridges, as specified in Reclamation's master bridge inspection schedule. Garrison Diversion will inspect the abutments on all bridges across the McClusky Canal, New Rockford Canal, and Oakes Test Area annually. Garrison Diversion will also inspect annually the bridges on the McClusky Canal in Sheridan County, for which Reclamation holds the title.

Stabilizing the cut slopes on the McClusky Canal where slope failures have occurred and replacing beach belting where existing material has been eroded are continuing efforts. Repairing slope failures and implementing measures to prevent future failures are to be evaluated with Reclamation.

Obtaining field stone to be used for rip rap throughout the canal for slope stabilization and erosion protection is an ongoing work activity. Garrison Diversion acquires the field stone from landowners with field rock piles near project facilities and then stockpiles the rock on the canal ROW. The rock is screened to separate the soil and sort by size. The soil removed during the process is used as top soil on other projects for reseeding.

Cleaning, removal, and replacement of buried pipe drains in McClusky and New Rockford will be completed in accordance with a master schedule. The schedule also includes jetting Jamestown Dam relief wells and toe drains. All pipe drains will be maintained in an operational basis and inspected regularly. All drains will be cleaned, as needed, to ensure flows are not obstructed.

For areas open to the public, maintain lands and facilities necessary to provide minimum basic facilities to meet public health and safety standards, primarily in the Chain-of-Lakes Area, which is part of the McClusky Canal system. This includes routine maintenance of restroom facilities, boat docks, boat ramps, parking areas, camp sites, fire rings, signs, and garbage pickup. It also includes spraying noxious weeds and managing the vegetation, mowing parking areas and fire breaks. Standard operating procedures (SOP) have been developed for describing the facilities, O&M activities, schedules, and procedures. The SOP is reviewed annually and updated as necessary by Reclamation and Garrison Diversion.

B. Water Operations

Garrison Diversion will cooperate with Reclamation in the management and delivery of project water to various water users for various purposes, including but not limited to the Fish and Wildlife Service, North Dakota Game and Fish Department, park boards, irrigators, landowners and

ranchers, for wildlife enhancement, recreation, in-stream flow maintenance, livestock watering, water quality improvement, irrigation, and freshening of the canal and lakes. Monitoring and recording of water supplies, flows, elevations, deliveries, water quality, and other pertinent water operations information is accomplished periodically at numerous sites by the O&M staff at McClusky and Oakes. All new requests for water are directed to Reclamation. Reclamation will issue and administer all water service contracts.

Garrison Diversion will operate SCPP as specified the *LOU for interim Operations of Audubon Lake* and *COE's Snake Creek Dam and Lake Audubon Reservoir Water Control Manual*. Annual water reports will be submitted to Reclamation.

Water operations on the New Rockford Canal involve maintaining the canal in a dewatered condition as much as practical.

C. Other GDU Facilities

Garrison Diversion is to provide assistance on maintenance of other GDU facilities as requested by Reclamation as part of the OM&R program under this cooperative agreement. Work by Garrison Diversion on other GDU facilities is coordinated through Reclamation. This work is typically smaller projects and requires equipment and personnel expertise available from Garrison Diversion. Working in this manner makes the most efficient and cost effective use of equipment and funds provided by Reclamation. Other GDU facilities which Garrison Diversion provides assistance on include:

- Lonetree Wildlife Management Area
- Jamestown Dam and Reservoir
- Audubon and Arrowwood NWR mitigation features
- Scattered Tracts Wildlife Development Areas
- Tribal Municipal, Rural & Industrial Water Systems

VI. MILESTONES AND COMPLETION DATES

Tasks	Milestones	Completion Date
1	Annual jetting of Jamestown relief wells	April 15
2	Complete 1 st quarter water operations report	April 30
3	Complete maintenance and repairs on equipment, pumping plants and distribution systems in preparation for yearly water distribution	May 1
4	Clean and prepare Chain of Lakes facilities for public use	May 20
5	Reach Lake Audubon summer target elevation	May 25
6	Water up pipe laterals and pumping plants for irrigation season	June 10
7	Complete hay auction	June 15
8	Inspect and maintain Chain of Lakes facilities for public use	June 30
9	Complete spring blading of O&M roads	June 30
10	Sweep bridge decks	June 30
11	Complete 2 nd quarter water samples along the McClusky Canal	June 30
12	Complete water deliveries to FWS WDA's	June 30
13	Complete summer mowing of county and township road ditches	July 15
14	Complete 2 nd quarter water operations report	July 30
15	Complete fall blading of O&M roads	Sept 1
16	Inspect and maintain Chain of Lakes facilities for public use	Sept 20
17	Complete annual noxious weed spraying	Sept 30
18	Annual inspection of bridge abutments	Sept 30
19	Conduct joint annual inspection of New Rockford and McClusky Canals	Sept 30
20	Complete 3 rd quarter water samples along the McClusky Canal	Sept 30
21	Complete fall mowing of county and township road ditches	Oct 1
22	Complete 3 rd quarter water operations report	Oct 30
23	Dewater and winterize pipe laterals and pumping plants	Nov 15
24	Reach Lake Audubon winter target elevation	Nov 15
25	Complete annual vegetation management report	Dec 31
26	Complete 4 th quarter water operations report	Jan 31

VII. PAST EXPENDITURES

Past expenditure for the OM&R program are shown in the following table.

Garrison Diversion Conservancy District OM&R 2021 - 2022		
O&M Expenses	2021 Actuals	2022 Actuals
Salaries and Wages	\$ 1,157,604	\$ 1,034,123
Fringe Benefits	\$ 620,563	\$ 508,648
Travel	\$ 7,104	\$ 5,901
Training	\$ 748	\$ -
Equipment	\$ 462,701	\$ 545,468
Supplies/Materials	\$ 253,756	\$ 203,541
Contractual	\$ 738,563	\$ 245,645
Other	\$ 174,124	\$ 115,306
Indirect Costs	\$ 550,318	\$ 559,948
Total Expenses	\$ 3,965,481	\$ 3,258,580

VIII. PROPOSED OUT YEAR BUDGETS

The proposed budget that reflects the funding needs for the OM&R program from 2023 to 2027 is shown in the following table.

Garrison Diversion Conservancy District OM&R 2023 - 2027					
O&M Expenses	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2027 Budget
Salaries and Wages	\$ 1,158,700	\$ 1,181,874	\$ 1,205,511	\$ 1,565,799	\$ 1,597,115
Fringe Benefits	\$ 534,300	\$ 544,986	\$ 555,886	\$ 743,421	\$ 758,290
Travel	\$ 8,200	\$ 8,364	\$ 8,531	\$ 8,702	\$ 8,876
Training	\$ 1,600	\$ 1,632	\$ 1,665	\$ 1,698	\$ 1,732
Equipment	\$ 644,000	\$ 656,880	\$ 670,018	\$ 683,418	\$ 697,086
Supplies/Materials	\$ 647,500	\$ 660,450	\$ 673,659	\$ 687,132	\$ 700,875
Contractual	\$ 92,900	\$ 94,758	\$ 96,653	\$ 98,586	\$ 100,558
Other	\$ 172,100	\$ 175,542	\$ 179,053	\$ 182,634	\$ 186,287
Indirect Costs	\$ 750,822	\$ 765,422	\$ 780,313	\$ 938,004	\$ 956,347
Total Expenses	\$ 4,010,122	\$ 4,089,908	\$ 4,171,289	\$ 4,909,394	\$ 5,007,165

OMR Contract # 20XX620109

Budget FY 2023

BUDGET ITEM DESCRIPTION	Transferred Works Jan 1 to Dec 31, 2023	Other Project Works Jan 1 to Dec 31, 2023	Total Budget Jan 1 to Dec 31, 2023
SALARIES AND WAGES			
O&M Wages	\$ 804,600.00	\$ 215,800.00	\$ 1,020,400.00
Management Salaries	\$ 100,696.28	\$ 37,603.72	\$ 138,300.00
Total Wages	\$ 905,296.28	\$ 253,403.72	\$ 1,158,700.00
FRINGE BENEFITS			
O&M Benefits	\$ 374,086.68	\$ 100,213.32	\$ 474,300.00
Management Benefits	\$ 44,176.68	\$ 15,823.32	\$ 60,000.00
Total Benefits	\$ 418,263.36	\$ 116,036.64	\$ 534,300.00
TRAVEL			
Travel	\$ 2,247.03	\$ 5,952.97	\$ 8,200.00
TRAINING			
Training	\$ 912.00	\$ 688.00	\$ 1,600.00
EQUIPMENT			
Equipment Maintenance	\$ 173,273.33	\$ 42,726.67	\$ 216,000.00
Equipment Lease	\$ 8,000.00	\$ -	\$ 8,000.00
Equipment Purchase	\$ 180,600.00	\$ 239,400.00	\$ 420,000.00
Total Equipment	\$ 361,873.33	\$ 282,126.67	\$ 644,000.00
SUPPLIES/MATERIALS			
Supplies	\$ 140,164.07	\$ 85,835.93	\$ 226,000.00
Materials	\$ 361,500.00	\$ 60,000.00	\$ 421,500.00
Total Supplies & Materials	\$ 501,664.07	\$ 145,835.93	\$ 647,500.00
CONTRACTUAL SERVICES			
Engineering	\$ 49,740.00	\$ 33,160.00	\$ 82,900.00
Professional Services	\$ -	\$ 10,000.00	\$ 10,000.00
Total Contractual Services	\$ 49,740.00	\$ 43,160.00	\$ 92,900.00
OTHER			
Utilities	\$ 25,986.41	\$ 53,213.59	\$ 79,200.00
Safety	\$ 58,294.70	\$ 19,705.30	\$ 78,000.00
Miscellaneous	\$ 4,058.39	\$ 10,841.61	\$ 14,900.00
Total Other	\$ 88,339.51	\$ 83,760.49	\$ 172,100.00
TOTAL DIRECT COSTS	\$ 2,328,335.57	\$ 930,964.43	\$ 3,259,300.00
INDIRECT COSTS			
TOTAL INDIRECT COSTS-Rate 27.8%	\$ 575,247.49	\$ 175,574.91	\$ 750,822.40
TOTAL PROJECT COSTS	\$ 2,903,583.06	\$ 1,106,539.34	\$ 4,010,122.40

*Transferred works include:

Snake Creek Pumping Plant
McClusky Canal O&M (MM 0-59)
McClusky Canal ROW (MM 0-59)
Carrington HQ non-routine costs

**Other Project works include:

McClusky Canal O&M (MM 59-74)
McClusky Canal ROW (MM 59-74)
McClusky Canal Recreation
New Rockford Canal & Radio Towers
Arrowwood National Wildlife Refuge
Audubon National Wildlife Refuge
Lonetree
Scattered Tracts
Jamestown Dam
Tribal MR&I

OMR Contract # 20XX620109

2023-2027 5-Year Budgets

BUDGET ITEM DESCRIPTION	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2027 Budget
SALARIES AND WAGES					
O&M Wages	\$ 1,020,400.00	\$ 1,040,808.00	\$ 1,061,624.16	\$ 1,419,034.20	\$ 1,447,414.88
Management Salaries	\$ 138,300.00	\$ 141,066.00	\$ 143,887.32	\$ 146,765.07	\$ 149,700.37
Total Wages	\$ 1,158,700.00	\$ 1,181,874.00	\$ 1,205,511.48	\$ 1,565,799.27	\$ 1,597,115.25
FRINGE BENEFITS					
O&M Benefits	\$ 474,300.00	\$ 483,786.00	\$ 493,461.72	\$ 679,748.61	\$ 693,343.59
Management Benefits	\$ 60,000.00	\$ 61,200.00	\$ 62,424.00	\$ 63,672.48	\$ 64,945.93
Total Benefits	\$ 534,300.00	\$ 544,986.00	\$ 555,885.72	\$ 743,421.09	\$ 758,289.52
TRAVEL					
Travel	\$ 8,200.00	\$ 8,364.00	\$ 8,531.28	\$ 8,701.91	\$ 8,875.94
TRAINING					
Training	\$ 1,600.00	\$ 1,632.00	\$ 1,664.64	\$ 1,697.93	\$ 1,731.89
EQUIPMENT					
Equipment Maintenance	\$ 216,000.00	\$ 220,320.00	\$ 224,726.40	\$ 229,220.93	\$ 233,805.35
Equipment Lease	\$ 8,000.00	\$ 8,160.00	\$ 8,323.20	\$ 8,489.66	\$ 8,659.46
Equipment Purchase	\$ 420,000.00	\$ 428,400.00	\$ 436,968.00	\$ 445,707.36	\$ 454,621.51
Total Equipment	\$ 644,000.00	\$ 656,880.00	\$ 670,017.60	\$ 683,417.95	\$ 697,086.31
SUPPLIES/MATERIALS					
Supplies	\$ 226,000.00	\$ 230,520.00	\$ 235,130.40	\$ 239,833.01	\$ 244,629.67
Materials	\$ 421,500.00	\$ 429,930.00	\$ 438,528.60	\$ 447,299.17	\$ 456,245.16
Total Supplies & Materials	\$ 647,500.00	\$ 660,450.00	\$ 673,659.00	\$ 687,132.18	\$ 700,874.82
CONTRACTUAL SERVICES					
Engineering	\$ 82,900.00	\$ 84,558.00	\$ 86,249.16	\$ 87,974.14	\$ 89,733.63
Professional Services	\$ 10,000.00	\$ 10,200.00	\$ 10,404.00	\$ 10,612.08	\$ 10,824.32
Total Contractual Services	\$ 92,900.00	\$ 94,758.00	\$ 96,653.16	\$ 98,586.22	\$ 100,557.95
OTHER					
Utilities	\$ 79,200.00	\$ 80,784.00	\$ 82,399.68	\$ 84,047.67	\$ 85,728.63
Safety	\$ 78,000.00	\$ 79,560.00	\$ 81,151.20	\$ 82,774.22	\$ 84,429.71
Miscellaneous	\$ 14,900.00	\$ 15,198.00	\$ 15,501.96	\$ 15,812.00	\$ 16,128.24
Total Other	\$ 172,100.00	\$ 175,542.00	\$ 179,052.84	\$ 182,633.90	\$ 186,286.57
TOTAL DIRECT COSTS	\$ 3,259,300.00	\$ 3,324,486.00	\$ 3,390,975.72	\$ 3,971,390.45	\$ 4,050,818.26
INDIRECT COSTS					
TOTAL INDIRECT COSTS-Rate 27.8%	\$ 750,822.40	\$ 765,421.85	\$ 780,313.28	\$ 938,004.02	\$ 956,347.10
TOTAL PROJECT COSTS	\$ 4,010,122.40	\$ 4,089,907.85	\$ 4,171,289.00	\$ 4,909,394.47	\$ 5,007,165.36