

ANNUAL BUDGET REPORT OF PROJECTED COSTS - FY15
C-51 Reservoir Phase 1 O&M Agreement

TOTAL YEARLY

| | | |
|---------------------|--------------------------------------------------------------------|-----------------------------------------|
| \$100,682.11 | Yearly C-51 Reservoir maintenance activities | (sheet (1) C-51 maintenance activities) |
| \$99,525.83 | Pump Station from L-8 FEB to C-51 Reservoir (150 cfs) | (sheet (2) 150 cfs pump station) |
| \$215,622.00 | Utilize S5A pump station to fill C-51 Reservoir for 39,204 acre ft | (sheet (3) S5A to L8FEB) |
| \$252,246.98 | L8 FEB yearly operation | (sheet (4) C51 based on L8) |
| \$40,380.79 | conveyance | (sheet (4) C51 based on L8) |
| \$55,981.35 | water management (Control Room) | (sheet (4) C51 based on L8) |
| \$108,611.32 | Project management, quarterly reports, and Annual Financial Report | (sheet (5) PM & reports) |
| <u>\$129,804.68</u> | Replacement and Rehabilitation | (sheet (6)) |
| \$1,002,855.05 | | |

\$83,571.25 per month

\$1,086,426.31 Total plus 13th month

Conveyance

12.6 miles from L-8 FEB pump station to E-1 canal

19.5 miles from south of E-1 to west on Hillsboro then south on L-36 canal to S-125.

Total of 32.1 miles

Through structures L-8 Divide (G-541), S5AE, S155A, S38A, S38B, S38C and S125

Assume C-51 Reservoir flow of 35 mgs for 365 days = 39,204 acre-ft

NOTE: DELIVERY SOUTH OF S125 IN SUNRISE IS NOT INCLUDED

C51 Reservoir Maintenance Activities

e
see sheet
backup

g

h

i

"e+g+h"
j

l

"j+l"

Annual Activities and Costs

| Reservoir, Embankments, Levees etc. | Description | Frequency | Manhour total | Equipment/Hours /Trip | Equipment/Hours /Trip Total | Materials | Materials Total | TOTAL - SFWMD | Subcontractor Manhours/Equipment/Materials /TRIP | Price - Subcontractor | TOTAL |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------|
| Annual inspection of the Reservoir, Embankment, and Levee conducted by Field Station Staff | Formal inspections of the Reservoir, Embankments and levees occur annually by a team of properly trained and certified District staff or external contractors and include the inspection of unwanted vegetation growth, sod cover, slope stability, erosion/bank caving, shoaling, settlement, depressions/rutting, Cracking, animal control, concrete surfaces (including roller compacted concrete) and banks, drainage systems, and seepage. | Annually | \$3,351.35 | Pickup / 10 hrs @ \$20 = \$200 Subtotal = \$200 Markup 20% = \$40 Total = \$240 | \$240.00 | N/A | \$0.00 | \$3,591.35 | N/A | 0 | \$3,591.35 |
| Flat mowing (30 ACRES) | Flat mowing of levees keeps these areas free from unwanted vegetation for maintenance purposes. This includes the areas on the crest, side slopes, and berm minus three feet from canal top of bank. | 5 times per year minimum | \$6,260.42 | Pickup / 50 hrs @ \$20 = \$1,000 Subtotal = \$1000 Markup 20% = \$200 Total = \$1200 (each trip) | \$6,000.00 | N/A | \$0.00 | \$12,260.42 | 120 ACRES / Contract Mower @ \$30 = \$3,600 Subtotal = \$3,600 Markup 20% = \$720 Total = \$4,320 5 TIMES PER YEAR | \$21,600.00 | \$33,860.42 |
| Slope mowing | Side-slope mowing keeps these areas free from unwanted vegetation for maintenance purposes and inspecting side slopes for undermining and erosion. The work consists of side slope mowing of grassed and/or vegetated embankment areas, includes canal bank side slope and three feet from canal top of bank. Side slope mowing is defined as those areas that cannot be mowed with a traditional bat wing or bush hog mower. | N/A. No slope mowing required per drawings dated 6/06/2014. | | N/A | | N/A | | \$0.00 | N/A | 0 | \$0.00 |
| Grading of Lower Roads (14' wide, 3.86miles) | Levees and roads require maintenance to keep a smooth drivable surface free of ruts and potholes caused by normal site deterioration and construction traffic. | 4 times per year | \$1,317.81 | Pickup / 8 hrs @ \$20 = \$160 Subtotal = \$160 Markup 20% = \$32 Total = \$192 | \$768.00 | No material costs considered. A repair estimate will be submitted accounting for additional resources (Material & Labor) in the event major road repair is required. | \$0.00 | \$2,085.81 | 3.86 MILES / Contract Grading @ \$109.58 per mile = \$422.97 Subtotal = \$422.97 Markup 20% = \$84.59 Total = \$507.56 4 TIMES PER YEAR | \$2,030.24 | \$4,116.05 |
| Boat ramp maintenance (2 Each) | Boat Ramp Maintenance will ensure reliable access to District managed water way systems. Ramps will be inspected annually and maintenance to be performed as per inspection. | Annually | | Need additional information on boat ramp construction. | | Need additional information on boat ramp construction. | 0.00 | \$0.00 | N/A | 0 | \$0.00 |
| Erosion Repairs | Repairs occur when erosion has occurred or is occurring that threatens the stability and integrity of the levee and/or embankment. The erosion or caving has progressed into the levee section or into the extended footprint of the levee foundation and has compromised the levee foundation stability. | Annually, up to 180cy | \$4,785.49 | Gradall / 10 hrs @ \$139.05 = \$1,390.50 Dump Truck / 20 hrs @ \$65 = \$1,300 Loader / 3 hrs @ \$39 = \$117 Pickup / 4 hrs @ \$20 = \$80 Subtotal = \$2,887.50 Markup 20% = \$577.50 Total = \$3,465 | \$3,465.00 | #1 Fill - 200 Tons @ \$6.10 = \$1,220 Subtotal = \$1,220 Markup 20% = \$244 Total = \$1,464 | \$1,464.00 | \$9,714.49 | N/A | 0 | \$9,714.49 |
| RCC Drain Maintenance and Repairs | RCC Drain Maintenance will ensure that the RCC drains remain free and clear of debris. Estimate is for Repairs Occur when the culvert has become clogged. Any replacement of the HDPE pipe, duck bills etc. is not included and will require additional costs. | Annually | \$1,317.81 | N/A | | N/A | | \$1,317.81 | Subcontract Vacuum Truck to jet& vacuum out debris/sediment. Subtotal \$15,000 Markup 20%=\$3,000 Total = \$18,000 (all drains) | \$18,000.00 | \$19,317.81 |
| Shoal removal | Shoal removal is performed when sediment builds up or material is washed into the reservoir restricting the conveyance, impairing channel flow or adversely affecting the operations. | Not Included. Shoal Removal at inflow/outflow pipes can not be done utilizing District resources. Owner will need to seek other means to address shoaling issues. | | | | | | \$0.00 | N/A | 0 | \$0.00 |
| Maintenance spraying terrestrial | Maintenance spraying of terrestrial vegetation occurs when exotic, invasive, and some native plant communities grow within the reservoir, levees, embankments, and uplands and interfere with the maintenance and/or operations. | Two times per year | \$1,735.17 | Pickup / 6 hrs @ \$20 = \$120 Subtotal = \$120 Markup 20% = \$24 Total = \$144 | \$288.00 | Glyphosate - 10 Gal @ \$17.40 = \$174 Arsenal - 5 Gal @ \$46.60 = \$233 MSO - 5 Gal @ \$10.55 = \$52.75 Subtotal = \$459.75 Markup 20% = \$91.95 Total = \$551.70 | \$1,103.40 | \$3,126.57 | 20 hrs / Spray Contractor @ \$57 = \$1,140 Subtotal = \$1,140 Markup 20% = \$228 Total = \$1,368 TWO times per year | \$2,736.00 | \$5,862.57 |
| Maintenance spraying aquatics | Maintenance spraying of aquatic vegetation occurs when exotic, invasive, and some native plant communities grow within the water body of the reservoir and interfere with the maintenance and/or operations. | Two times per year | \$1,735.17 | Pickup / 6 hrs @ \$20 = \$120 Subtotal = \$120 Markup 20% = \$24 Total = \$144 | \$288.00 | Tribune - 5 Gal @ \$39.69 = \$198.45 MSO - 2.5 Gal @ \$10.55 = \$26.38 Subtotal = \$224.83 Markup 20% = \$44.97 Total = \$269.80 | \$539.60 | \$2,562.77 | 20 hrs / Spray Contractor @ \$57 = \$1,140 Subtotal = \$1,140 Markup 20% = \$228 Total = \$1,368 TWO times per year | \$2,736.00 | \$5,298.77 |
| Aquatic Mechanical Harvesting | Aquatic mechanical harvesting removes excess and non-desirable species of aquatic vegetation and debris from water bodies maintained by the district using mechanical harvesting methods when the vegetation is too substantial for maintenance spraying. | Annually, up to 180cy | \$5,580.55 | Gradall / 10 hrs @ \$139.05 = \$1,390.50 Dump Truck / 20 hrs @ \$65 = \$1,300 Boat / 10 hrs @ \$14 = \$140 Pickup / 14 hrs @ \$20 = \$280 Subtotal = \$3,110.50 Markup 20% = \$622.10 Total = \$3,732.60 | \$3,732.60 | N/A | | \$9,313.15 | N/A | 0 | \$9,313.15 |
| Total Annual Reservoir, Embankments, Levees etc. Costs | | | \$26,083.76 | | \$14,781.60 | | | \$43,972.36 | | \$47,102.24 | \$91,074.60 |

| Culverts, Control Gates, Control Building, Etc. | Description | Frequency | Manhour total | Equipment/Hours /Trip | Equipment/Hours /Trip Total | Materials | Materials Total | Price - SFWMD | Subcontractor Manhours/Equipment/Materials | Price - Subcontractor | TOTAL |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------|-----------------|---------------|-----------------------------------------------|-----------------------|------------|
| Annual inspection of the Structure and Control Building conducted by Field Station Staff | Formal inspections of the Control Structures and Control Building occur annually by a team of properly trained and certified District staff or external contractors and include the inspection of the electrical components, control structure, gates, seals, tilting, sliding, or settlement of concrete structures, foundations of concrete structures (including aprons), culvert joints, unwanted vegetation growth, obstructions, inlets/discharge area, and concrete surfaces (including roller compacted concrete embankment and steps). | Annually | \$1,007.18 | Utility Truck / 8 hrs @ \$35.00 = \$280 Subtotal = \$ 280 Markup 20% = \$ 56.00 Total = \$336 | \$336.00 | N/A | | \$1,343.18 | N/A | 0 | \$1,343.18 |
| Semi-annual structure Preventative Maintenance (PM)s | Structure Maintenance tech to maintain the equipment and oilers to prevent any excessive wear on equipment. | 6 months | \$1,067.57 | Utility Truck / 3 hrs @ \$35.00 = \$105.00 Subtotal = \$ 105.00 Markup 20% = \$ 21 Total = \$126 (each trip) | \$252.00 | N/A | | \$1,571.57 | N/A | 0 | \$1,571.57 |
| Semi Annual Electrical Structure Maintenance (does not include Anode Inspection and Replacement) | Electrical inspection of the structure | 6 months | \$1,164.17 | Utility Truck / 3 hrs @ \$35.00 = \$105.00 Subtotal = \$ 105.00 Markup 20% = \$ 21 Total = \$126 (each trip) | \$252.00 | N/A | | \$1,668.17 | N/A | 0 | \$1,668.17 |
| Semi-annual fall protection equipment inspections (Equipment on Structure) | The Cable for the Suspended Power Swing Stages needs to be inspected/ replaced. The | 6 months | \$878.21 | Utility Truck / 3 hrs @ \$35.00 = \$105.00 Subtotal = \$ 105.00 Markup 20% = \$ 21 Total = \$126 (each trip) | \$252.00 | N/A | | \$1,382.21 | N/A | 0 | \$1,382.21 |

| | | | | | | | | | | | |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-----------------------------------------------------------------------------------------------------------------|-------------|----------|------------|-------------|-----|-------------|--------------|
| Annual pressure cleaning | Cleaning the structure keeps these areas free from unwanted bug and bird debris from the buildings and metal frame and grating of the Sluice gate | Annually | \$1,067.57 | Utility Truck / 4 hrs @ \$35.00 = \$140.00 Subtotal = \$ 140.00 Markup 20% = \$ 28.00 Total = \$168.00 | \$168.00 | N/A | | \$1,235.57 | N/A | 0 | \$1,235.57 |
| Fall protection personal safety equipment inspections (Harnesses and Tethers) | The Davits and securing anchors need to be inspected for mechanical or concrete failures around the anchorage points. | Annually | \$249.75 | N/A | | N/A | | \$249.75 | N/A | 0 | \$249.75 |
| Pavement & Sign Inspection | Vandalism/damaged signs may need to be replaced. And asphalt repairs may be needed along the driving surfaces. | Annually | \$439.10 | Utility Truck / 4 hrs @ \$35.00 = \$140.00 Subtotal = \$ 140.00 Markup 20% = \$ 28.00 Total = \$168.00 | \$168.00 | \$120.00 | 120.00 | \$734.10 | N/A | 0 | \$734.10 |
| SCADA System Inspection | Perform routine and emergency activities such as: inspection, calibration, repair, adjustment and replacement of RTU, stage and gate sensors communication/RF components and hardware (stilling wells, walkways and housings). Six (6) estimated visits = 4 routine and 2 emergencies | Quarterly | \$1,127.95 | Cargo van / 4 hrs @ \$35.00 = \$140.00 Subtotal= \$140.00 Markup 20% = \$28 Total = \$168 (each trip) | \$672.00 | | | \$1,422.95 | | | \$1,422.95 |
| Stilling Well Inspection and Calibration | | | | | | | | | | | \$0.00 |
| Total Annual Culverts, Control Gates, Control Building, Etc. | | | \$7,001.51 | | \$2,100.00 | | | \$9,607.51 | | \$0.00 | \$9,607.51 |
| Total Annual Costs | | | \$33,085.27 | | \$16,881.60 | | \$3,227.00 | \$53,579.87 | | \$47,102.24 | \$100,682.11 |

\$53,193.87

5 Year Activities and Costs

| Reservoir, Embankments, Levees etc. | Description | Frequency | Manhour total | Equipment/Hours /Trip | Equipment/Hours /Trip Total | Materials | Materials Total | Price - SFWMD | Subcontractor Manhours/Equipment/Materials /TRIP | Price - Subcontractor | TOTAL |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------|
| Total 5 Year Reservoir, Embankments, Levees etc. Costs | | | \$0.00 | | \$0.00 | | 0.00 | \$0.00 | | \$0.00 | \$0.00 |
| Culverts, Control Gates, Control Building, Etc. | Description | Frequency | Manhour total | Equipment/Hours /Trip | | Materials | | Price - SFWMD | Subcontractor Manhours/Equipment/Materials | Price - Subcontractor | TOTAL |
| Routine Inspection Program (District's 5 Yr. plan - Very Thorough incl. Divers to check Structure, Stop Logs) | An in-depth inspection of the structure including the gate, culvert, anodes and other parts of the structure. | 5 years | \$5,098.44 | Utility Truck / 10 hrs @ \$35.00 x 2 = \$700.00 Dive Trailer / 10 hrs @ \$10.25 = \$102.50 Subtotal = \$ 1602.50 Markup 20% = \$ 320.50 Total = \$1,923 confined space equipment \$800 | \$2,723.00 | N/A | | \$8,621.44 | 10 hrs / Licensed Trapper @ \$35.00 = \$350.00 Subtotal = \$350.00 Markup 20% = \$87.50 Total = \$ 437.50 | \$437.50 | \$9,058.94 |
| Painting of culvert gate control building | Buildings and the Structure requires the paint to be maintained to keep a Rust free surface. | 5 years | \$1,127.95 | Utility Truck / 4 hrs @ \$35.00 = \$140.00 Subtotal = \$ 140.00 Markup 20% = \$ 28.00 Total = \$168.00 | \$168.00 | N/A | | \$1,295.95 | N/A | 0 | \$1,295.95 |
| 5 year gearbox overhaul including electric motors (2 gearboxes) | The Bearings and Sacrificial Bronze nut need to be replaced dependent upon usage, load and age. | 5 Years | \$4,951.36 | Utility Truck / 50 hrs @ \$35.00 = \$1750.00 Subtotal = \$ 1750.00 Markup 20% = \$ 350 Total = \$ 2100 | \$2,100.00 | Bearings AXK00120- 4ea @ \$32 = \$128.00 O-Rings ARP568128 4ea @ 3.15 = \$12.60 Stem Nut P/N 35594 2ea @ 538.4 = \$1,076.80 Signs 12"x24" 4ea @ \$30 = \$120 Asphalt Road Repairs 1ea @ \$120 Subtotal = \$ 1,457.40 Markup 20% = \$ 291.48 Total = \$ 1,748.88 | \$1,748.88 | \$8,800.24 | 2 Motors rework and overhauled at certified motor shop @ 608.00 each = \$ 1216.00 Stem Lathe Repairs \$ TBD Subtotal = \$ 1216.00 Markup 20% = \$ 304 Total = \$ 1520.00 | \$1,520.00 | \$10,320.24 |
| Total 5 Year Culverts, Control Gates, Control Building, Etc. | | | \$11,977.75 | | \$4,991.00 | | 1,748.88 | \$18,717.63 | | \$1,957.50 | \$20,675.13 |
| Total 5 Year Costs | | | \$11,977.75 | | \$4,991.00 | | 1,748.88 | \$18,717.63 | | \$1,957.50 | \$20,675.13 |

Rich Virgil/ Kathy Collins

15 Year Activities and Costs

| | | | | | | | | | | | |
|---------------------------------------|----------------------------------------------|----------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|
| 15 year gate overhaul (2-9'x9' gates) | Sluice gate seals and Slide HDPE replacement | 15 years | \$50,033.57 | Dive Trailer / 40 hrs @ \$70.00 = \$2,800.00 Hydro Crane / 40 hrs @ \$155.00 = \$6,200.00 Subtotal = \$ 9,000.00 Markup 20% = \$ 1,800.00 Total = \$ 10,800.00 | \$10,800.00 | Seals @ \$3,000.00 | \$3,000.00 | \$63,833.57 | 40 hrs / Wildlife Protection @ \$35.00 = \$1,400.00 (Staff = 1 x 4 days x 10 hours) Subtotal = \$1,400.00 Markup = \$280.00 Total = \$1,680.00 | \$1,680.00 | \$65,513.57 |
| Total 15 Year Costs | | | \$50,033.57 | | \$10,800.00 | | 3,000.00 | \$63,833.57 | | \$1,680.00 | \$65,513.57 |

150 CFS pump station from L-8 FEB to the C-51 Reservoir Phase 1

Budget based small style electric pump pump station

| | | total salary | overhead | total |
|------------------------------------|-------------------|-----------------------|--------------|--------------------------|
| INDUSTRIAL ELECTRICIAN | \$ 14,536 | | | |
| INDUSTRIAL ELECTRICIAN | \$ - | | | |
| INDUSTRIAL ELECTRICIAN - Benefits | \$ 5,410 | \$ 19,946 | \$ 15,611.73 | \$ 35,558 |
| Electric S-700 | \$ 46,800 | | | |
| Oils / Lube | \$ 364 | | | |
| Fire Extinguisher | \$ 82 | | | |
| Parts & Supplies | \$ 2,000 | | | |
| Electrical Supplies | \$ 3,500 | | | |
| Electronic Technician 3 | \$ 4,595 | | | |
| Electronic Technician 3 - Benefits | \$ 1,700 | \$ 6,295 | \$ 4,927.10 | \$ 11,222 |
| | c \$ 78,987 | | | a \$ 46,780 TOTAL SALARY |
| | b \$ 26,241 | Salary w/out overhead | | \$ 20,539 "a-b" |
| TOTAL | \$ 99,526 (a-b)+c | | | |

Utilize S5A pump station to send water north to L8 FEB

\$5.50 per acre ft

39204 acre ft (35 mgd for 365 days)

\$215,622.00

Matt,

The \$4.50 per acre foot was calculated based on average total costs divided by average acre feet pumped for S5A. Below is the breakdown of the total costs and the fuel portion costs for S5A for FY09 to Fy13. By dividing the total costs by the acre feet the actual number is \$4.38 which was then rounded up resulting in the cost \$4.50 acre foot. In light of the fact that the fuel consumption went up by approximately 40% during the recent test with the higher tail water and the cost per acre foot for fuel is \$2.50 the revised acre foot for fuel jumps to \$3.50 per acre foot bringing **the total revised cost per acre foot to \$5.50**. Please let me know if you have any questions.

Tom DeBold
 Superintendent
 West Palm Beach Field Station
 SFWMD.GOV

| | | | S5A | |
|---------|--|--|-------------|--|
| FY09 | | | \$800,187 | |
| FY10 | | | \$733,637 | |
| FY11 | | | \$612,368 | |
| FY12 | | | \$1,229,076 | |
| FY13 | | | \$1,296,454 | |
| Average | | | \$934,344 | |

| S5A Fuel Cost per Acre Foot | | | |
|-----------------------------|-----------|--------------|---------------|
| | Acre Feet | Fuel Cost | \$/AF |
| FY09 | 271,004 | \$656,865 | \$2.42 |
| FY10 | 184,338 | \$352,443 | \$1.91 |
| FY11 | 110,970 | \$234,228 | \$2.11 |
| FY12 | 225,920 | \$676,305 | \$2.99 |
| FY13 | 274,957 | \$845,772 | \$3.08 |
| Average | 213,438 | \$553,123.00 | \$2.50 |

L-8 FEB Yearly Operation

Conveyance and Water Management

(based on estimate from November 2013)

| | | |
|--------------------------------------------------|---------|----------------|
| Fund | L-8 FEB | 170000 ACRE-FT |
| New or Existing (FTE & Vehicles ONLY) | | |

| New Works Project | Responsible Cost Center | Description | Sum of FY17-L8 Combined | Sum of FY17-L8 Reservoir & Structure | Sum of FY17-L8 Pump Station | FY17-L8 Reservoir & Structure cost per Linear foot | FY17-L8 Pump Station per Acre foot | FY17-C51 Reservoir & Structure cost based on linear foot cost for L8 reservoir |
|------------------------------------------|-------------------------|------------------------------------------|-------------------------|--------------------------------------|-----------------------------|----------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------|
| Restoration Strategies - L-8 Reservoir | WPB FS | RS L-8 Reservoir - Terrestrial Chemicals | 2,681 | 2,681 | | 0.064366271 | 0 | 1313.33 |
| | | RS L-8 Reservoir - Aquatic Chemicals | 2,725 | 2,725 | | 0.065422636 | 0 | 1334.88 |
| | | RS L-8 Reservoir - Fuel SM Vehicles | 3,968 | 3,968 | | 0.095264962 | 0 | 1943.79 |
| | | RS L-8 Reservoir - PS Oil | 1,700 | | 1,700 | 0 | 0.01 | 0.00 |
| | | RS L-8 Reservoir - Structures Oil | 453 | 453 | | 0.010875763 | 0 | 221.91 |
| | | RS L-8 Reservoir - Lube Oil Analysis | 453 | | 453 | 0 | 0.002664706 | 0.00 |
| | | RS L-8 Reservoir - Structures (Propane) | 1,090 | 1,090 | | 0.026169054 | 0 | 533.95 |
| | | RS L-8 Reservoir - L8 Reservoir Lumber | 545 | 545 | | 0.013084527 | 0 | 266.98 |
| | | RS L-8 Reservoir - Structures Fencing | 545 | 545 | | 0.013084527 | 0 | 266.98 |
| | | RS L-8 Reservoir - Tools PS | 82 | | 82 | 0 | 0.000482353 | 0.00 |
| | | RS L-8 Reservoir - Trades Support Tools | 82 | | 82 | 0 | 0.000482353 | 0.00 |
| | | RS L-8 Reservoir - Tuff Boom | 4,360 | 4,360 | | 0.104676218 | 0 | 2135.81 |
| | | RS L-8 Reservoir - SM Equipment VMF | 1,090 | 1,090 | | 0.026169054 | 0 | 533.95 |
| | | RS L-8 Reservoir - Buildings & Grounds | 367 | 367 | | 0.008811049 | 0 | 179.78 |
| | | RS L-8 Reservoir - Electric Motors Parts | 1,090 | 1,090 | | 0.026169054 | 0 | 533.95 |
| | | RS L-8 Reservoir - SM Parts and Supplies | 1,090 | 1,090 | | 0.026169054 | 0 | 533.95 |
| | | RS L-8 Reservoir - Rental Equipment | 5,450 | 1362.5 | 4087.5 | 0.032711318 | 0.024044118 | 667.44 |
| | | RS L-8 Reservoir - CDL (1 FTE) | 5,450 | 2725 | 2725 | 0.065422636 | 0.016029412 | 1334.88 |
| | | RS L-8 Reservoir - PS Electricity | 1,000,000 | | 1,000,000 | 0 | 5.882352941 | 0.00 |
| | | RS L-8 Reservoir - Structure Electricity | 463 | 463 | | 0.011115846 | 0 | 226.81 |
| | | RS L-8 Reservoir - Boat Barrier Maint | 0 | | | 0 | 0 | 0.00 |
| | | RS L-8 Reservoir - Metal Products Trades | 818 | | 818 | 0 | 0.004811765 | 0.00 |
| | | RS L-8 Reservoir - Structure Maintenance | 1,090 | 1,090 | | 0.026169054 | 0 | 533.95 |
| | | RS L-8 Reservoir - Levee / Berm M&R | 3,270 | 3,270 | | 0.078507163 | 0 | 1601.86 |
| | | RS L-8 Reservoir - Structure Maint Tools | 82 | 82 | | 0.001968681 | 0 | 40.17 |
| | | RS L-8 Reservoir - Veg Mgmt Tools | 82 | 82 | | 0.001968681 | 0 | 40.17 |
| | | RS L-8 Reservoir - PPE / Apparel-Stores | 109 | 27.25 | 81.75 | 0.000654226 | 0.000480882 | 13.35 |
| | | RS L-8 Reservoir - Electrical Supplies | 218 | 54.5 | 163.5 | 0.001308453 | 0.000961765 | 26.70 |
| | | RS L-8 Reservoir - Trades Support Equip | 5,450 | | 5,450 | 0 | 0.032058824 | 0.00 |
| | | RS L-8 Reservoir - Parts & Supplies Repl | 367 | 91.75 | 275.25 | 0.002202762 | 0.001619118 | 44.95 |
| RS L-8 Reservoir - Parts & Fittings | 3,270 | 817.5 | 2452.5 | 0.019626791 | 0.014426471 | 400.47 | | |
| RS L-8 Reservoir - Oil Absorbent Rags | 367 | | 367 | 0 | 0.002158824 | 0.00 | | |
| RS L-8 Reservoir - M&R Emergency Generat | 1,090 | | 1,090 | 0 | 0.006411765 | 0.00 | | |

Quarterly reports, project management and Annual Financial Report

| | | | | | | | | 0.589147 | 78.27321% of salaries | | |
|-----------------------------------------------------------|-------|---------|------------|------------|--------------|------------|-----------------------|---------------------|------------------------------|------------|--|
| Quarterly reports and quarterly project management | hours | rate | amount | fringe | total salary | overhead | total salary overhead | | | | |
| Staff Engineer | 120 | \$38.62 | \$4,634.40 | \$2,730.34 | \$7,364.74 | \$5,764.62 | \$13,129.36 | | | | |
| Lead Engineer | 60 | \$42.00 | \$2,520.00 | \$1,484.65 | \$4,004.65 | \$3,134.57 | \$7,139.22 | | | | |
| Admin | 20 | \$25.00 | \$500.00 | \$294.57 | \$794.57 | \$621.94 | \$1,416.51 | | | | |
| | | | | | | | \$21,685.09 | | | 4 required | |
| | | | | | | | | \$ 86,740.38 | | 4 | |

| Annual financial report | hours | rate | amount | fringe | total salary | overhead | total salary overhead | | | |
|--------------------------------|-------|---------|------------|------------|--------------|------------|-----------------------|--------------|----------------------|--|
| accountant | 100 | \$42.00 | \$4,200.00 | \$2,474.42 | \$6,674.42 | \$5,224.28 | \$11,898.70 | | | |
| budget analyst | 60 | \$42.00 | \$2,520.00 | \$1,484.65 | \$4,004.65 | \$3,134.57 | \$7,139.22 | | | |
| admin | 40 | \$25.00 | \$1,000.00 | \$589.15 | \$1,589.15 | \$1,243.88 | \$2,833.02 | | | |
| | | | | | | | \$21,870.94 | | | |
| | | | | | | | | total | \$ 108,611.32 | |

Replacement and Rehabilitation

L-8 FLOW EQUALIZATION BASIN

| Item | Usefull Life (years) | Present Value | Annual R/R |
|----------------------------|----------------------|-----------------|--------------------|
| Pumps (6) | 20 | \$2,940,000.00 | \$98,730.35 |
| Inflow Roller Gates (3) | 50 | \$1,400,000.00 | \$9,170.28 |
| PS Slide Gates | 20 | \$945,000.00 | \$31,734.75 |
| Butterfly Valves | 10 | \$325,000.00 | \$27,069.56 |
| Electrical/Instrumentation | 25 | \$650,000.00 | \$15,607.78 |
| Roller Compacted Concrete | 50 | \$10,020,750.00 | \$65,637.92 |
| Variable Frequency Drives | 10 | \$360,000.00 | \$29,984.74 |
| Bridge | 50 | \$800,500.00 | \$5,243.44 |
| Interconnect Pipes | 25 | \$15,000.00 | \$360.18 |
| Generators (2) | 20 | \$52,000.00 | <u>\$1,746.25</u> |
| | | | \$285,285.24 |
| | | | \$53,348.34 |

S5A

| | | | |
|--------------------------------|----|-----------------|--------------------|
| pumps (6) | 50 | \$5,342,804.00 | \$34,996.44 |
| chain drives (6) | 50 | \$3,178,099.00 | \$20,817.19 |
| Engines and controls (6) | 50 | \$15,067,388.00 | \$98,694.41 |
| Raw water intake structure | 50 | \$12,000.00 | \$78.60 |
| Raw water piping and strainers | 50 | \$378,202.00 | \$2,477.30 |
| Discharge flap gates | 50 | \$1,008,985.00 | \$6,609.05 |
| vacuum pumps | 50 | \$211,459.00 | <u>\$1,385.10</u> |
| | | | \$165,058.09 |
| | | | \$15,310.68 |

**NOTE: S5A is required to fill the L-8 FEB and C-51 Reservoir
S5A is used to redirect the canal flow to L-8 FEB**

C-51 Reservoir and Hydraulic Structure

| Item | Usefull Life (years) | Present Value | Annual R/R |
|------|----------------------|---------------|------------|
|------|----------------------|---------------|------------|

| | | | |
|----------------------------|-----|-----------------|-----------------|
| Pumps (2) | 20 | \$300,000.00 | \$10,074.53 |
| Gates (2) | 50 | \$500,000.00 | \$3,275.10 |
| Electrical/Instrumentation | 20 | \$100,000.00 | \$3,358.18 |
| RCC | 100 | \$11,000,000.00 | \$8,888.00 |
| Guard Rail | 20 | \$500,000.00 | \$16,790.88 |
| Interconnect Pipes | 75 | \$6,000,000.00 | \$13,374.01 |
| Roads | 25 | \$15,000.00 | <u>\$360.18</u> |
| | | | \$56,120.86 |

(G-541), S5AE, S155A, S38A, S38B, S38B, S38C and S125
32 miles of canal (C-51, Hillsboro, and L-36)

| | | | |
|-----------------------|----|----------------|-------------|
| S5AE | 50 | \$2,500,000.00 | \$16,375.50 |
| Structure replacement | | | \$655.02 |

| | | | |
|------------------|----|----------------|------------|
| G-541 | | | |
| Roller gates (3) | 50 | \$1,400,000.00 | \$9,170.28 |
| | | | \$366.81 |

| | | | |
|------------------|----|----------------|------------|
| S-155A | | | |
| Roller gates (3) | 50 | \$1,400,000.00 | \$9,170.28 |
| | | | \$366.81 |

| | | | |
|-----------------------|----|------------------------|------------|
| culverts (5) | | total for 5 structures | |
| 3 72 inchCMP by 54 ft | 50 | \$918,000.00 | \$6,013.08 |
| Structure replacement | | | \$240.52 |

Canals - dredging

Assume \$405,000 per mile to hydraulic dredge up to 1 ft of silt - from Jack

| | | | |
|-------------------------------------------------------|----|-----------------|-------------|
| 32 miles of canal | 50 | \$12,960,000.00 | \$84,890.60 |
| Portion of C-51 and Hillsboro, L-36 Canal to S-125 | | | \$3,395.62 |

Total RR PRORATED BASED ON C51 flow

L-8 FLOW EQUALIZATION BASIN \$53,348.34

| | |
|-------------------------------------------------------------|---------------------|
| S5A | \$15,310.68 |
| C-51 Reservoir and Hydraulic Structure | \$56,120.86 |
| (G-541), S5AE, S155A, S38A, S38B, S38B, S38C and S125 | |
| S5AE | \$655.02 |
| S155A | \$366.81 |
| G541 | \$366.81 |
| 5 culvert structures | \$240.52 |
| 32 mile canal | <u>\$3,395.62</u> |
| TOTAL | \$129,804.68 |

YEARLY
 L-8 FEB pumpage 170000 ACRE-FT
 C51 pumpage 39204 ACRE-FT
 209204 TOTAL
 0.187 C-51 percent
 of total

C-51 percent at 18.7%

water exclusive of L8 and C51

S5A pumpage
 prior to L-8 FEB

| | Acre Feet |
|----------------|------------------|
| FY09 | 271,004 |
| FY10 | 184,338 |
| FY11 | 110,970 |
| FY12 | 225,920 |
| FY13 | 274,957 |
| | |
| Average | 213,438 |

C-51 percent at 9%

new S5A total with L8 FEB and C-5

L8 FEB 170,000
 S5A other 213,438
 C-51 39,204
 422,642

C51 % OF TOTAL

0.09

C-51 percent at 4%

C-51 percent at 4%

| cfs | acre ft/day | year acre ft | c51 yr flow acre- ft | C51 flow % |
|------|-------------|-----------------|-------------------------|------------|
| 1253 | 2485 | 907025 | 39204 | 0.04 |

C-51 percent at 4%

Matt – the estimated total cost per one linear foot of 3 x 72-in CMP w/ 5
Jack

C-51 percent at 4%

C-51 percent at 4%

1 Reservoir

Total

54 ft. each, and risers with slide gates, including cat- walk, is \$3000 to \$3400 per L.F. Work will be includ

led: cofferdam, dewatering, excavation, removal, installation, rip-rap, and in some project buy bass as v

vell.

Annual Activities and Costs

| Reservoir, Embankments, Levees etc. | Description | Frequency |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Annual inspection of the Reservoir, Embankment, and Levee conducted by Field Station Staff | Formal inspections of the Reservoir, Embankments and levees occur annually by a team of properly trained and certified District staff or external contractors and include the inspection of unwanted vegetation growth, sod cover, slope stability, erosion/bank caving, shoaling, settlement, depressions, rutting. Cracking, animal control, concrete surfaces (including roller compacted concrete) and banks, drainage systems, and seepage. | Annually |
| Flat mowing (30 ACRES) | Flat mowing of levees keeps these areas free from unwanted vegetation for maintenance purposes. This includes the areas on the crest, side slopes, and berm minus three feet from canal top of bank. | 5 times per year minimum |
| Slope mowing | Side-slope mowing keeps these areas free from unwanted vegetation for maintenance purposes and inspecting side slopes for undermining and erosion. The work consists of side slope mowing of grassed and/or vegetated embankment areas, includes canal bank side slope and three feet from canal top of bank. Side slope mowing is defined as those areas that cannot be mowed with a traditional bat wing or bush hog mower. | N/A. No slope mowing required per drawings dated 6/06/2014. |
| Grading of Lower Roads (14' wide, 3.86miles) | Levees and roads require maintenance to keep a smooth drivable surface free of ruts and potholes caused by normal site deterioration and construction traffic. | 4 times per year |
| Boat ramp maintenance (2 Each) | Boat Ramp Maintenance will ensure reliable access to District managed water way systems. Ramps will be inspected annually and maintenance to be performed as per inspection. | Annually |
| Erosion Repairs | Repairs occur when erosion has occurred or is occurring that threatens the stability and integrity of the levee and/or embankment. The erosion or caving has progressed into the levee section or into the extended footprint of the levee foundation and has compromised the levee foundation stability. | Annually, up to 180cy |
| RCC Drain Maintenance and Repairs | RCC Drain Maintenance will ensure that the RCC drains remain free and clear of debris. Estimate is for Repairs Occur when the culvert has become clogged. Any replacment of the HDPE pipe, duck bills etc. is not included and will require additional costs. | Annually |
| Shoal removal | Shoal removal is performed when sediment builds up or material is washed into the reservoir restricting the conveyance, impairing channel flow or adversely effecting the operations. | Not Included. Shoal Removal at inflow/outflow pipes can not be done utilizing District resources. Owner will need to seek other means to address shoaling issues. |
| Maintenance spraying terrestrial | Maintenance spraying of terrestrial vegetation occurs when exotic, invasive, and some native plant communities grow within the reservoir, levves, ebankments, and uplands and interfere with the maintenance and/or operations. | Two times per year |

| | | |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Maintenance spraying aquatics | Maintenance spraying of aquatic vegetation occurs when exotic, invasive, and some native plant communities grow within the water body of the reservoir and interfere with the maintenance and/or operations. | Two times per year |
| Aquatic Mechanical Harvesting | Aquatic mechanical harvesting removes excess and non-desirable species of aquatic vegetation and debris from water bodies maintained by the district using mechanical harvesting methods when the vegetation is too substantial for maintenance spraying. | Annually, up to 180cy |
| Total Annual Reservoir, Embankments, Levees etc. Costs | | |

| Culverts, Control Gates, Control Building, Etc. | Description | Frequency |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Annual inspection of the Structure and Control Building conducted by Field Station Staff | Formal inspections of the Control Structures and Control Building occur annually by a team of properly trained and certified District staff or external contractors and include the inspection of the electrical components, control structure, gates, seals, tilting, sliding, or settlement of concrete structures, foundations of concrete structures (including aprons), culvert joints, unwanted vegetation growth, obstructions, inlets/discharge area, and concrete surfaces (including roller compacted concrete embankment and steps). | Annually |
| Semi-annual structure Preventative Maintenance (PM)s | Structure Maintenance tech to maintain the equipment and oilers to prevent any excessive wear on equipment. | 6 months |
| Semi Annual Electrical Structure Maintenance (does not include Anode Inspection and Replacement) | Electrical inspection of the structure | 6 months |
| Semi-annual fall protection equipment inspections (Equipment on Structure) | The Cable for the Suspended Power Swing Stages needs to be inspected/ replaced. The | 6 months |
| Annual pressure cleaning | Cleaning the structure keeps these areas free from unwanted bug and bird debris from the buildings and metal frame and grating of the Sluice gate | Annually |

| | | |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Fall protection personal safety equipment inspections (Harnesses and Tethers) | The Davits and securing anchors need to be inspected for mechanical or concrete failures around the anchorage points. | Annually |
| Pavement & Sign Inspection | Vandalism/damaged signs may need to be replaced. And asphalt repairs may be needed along the driving surfaces. | Annually |
| SCADA System Inspection | Perform routine and emergency activities such as: inspection, calibration, repair, adjustment and replacement of RTU, stage and gate sensors communication/RF components and hardware (stilling wells, walkways and housings). Six (6) estimated visits = 4 routine and 2 emergencies | Quarterly |
| Stilling Well Inspection and Calibration | | |
| Total Annual Culverts, Control Gates, Control Building, Etc. | | |
| Total Annual Costs | | |

5 Year Activities and Costs

| Reservoir, Embankments, Levees etc. | Description | Frequency |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------|
| Total 5 Year Reservoir, Embankments, Levees etc. Costs | | |
| Culverts, Control Gates, Control Building, Etc. | | |
| Routine Inspection Program (District's 5 Yr. plan - Very Thorough incl. Divers to check Structure, Stop Logs) | An in-depth inspection of the structure including the gate, culvert, anodes and other parts of the structure. | 5 years |
| Painting of culvert gate control building | Buildings and the Structure requires the paint to be maintained to keep a Rust free surface. | 5 years |
| 5 year gearbox overhaul including electric motors (2 gearboxes) | The Bearings and Sacrificial Bronze nut need to be replaced dependent upon usage, load and age. | 5 Years |
| Total 5 Year Culverts, Control Gates, Control Building, Etc. | | |
| Total 5 Year Costs | | |

15 Year Activities and Costs

| | | |
|----------------------------------------------|-----------------------------------------------------|-----------------|
| 15 year gate overhaul (2-9'x9' gates) | Sluice gate seals and Slide HDPE replacement | 15 years |
| Total 15 Year Costs | | |

| | |
|--------------------------------------------------------------------------------------------|--|
| Annual inspection of the Reservoir, Embankment, and Levee conducted by Field Station Staff | |
|--------------------------------------------------------------------------------------------|--|

0.589147

| | hours | rate | amount | fringe |
|--------------------|-------|---------|----------|----------|
| Operator | 6 | \$35.08 | \$210.48 | \$124.00 |
| Planner/Supervisor | 2 | \$42.63 | \$85.26 | \$50.23 |

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Flat mowing of levees keeps these areas free from unwanted vegetation for maintenance purposes. This includes the areas on the crest, side slopes, and berm minus three feet from canal top of bank. | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

| | hours | rate | amount | fringe |
|--------------------|-------|---------|----------|----------|
| Contract Inspector | 12 | \$36.83 | \$441.96 | \$260.38 |
| | 0 | \$42.63 | \$0.00 | \$0.00 |

| | |
|----------------------------------------------|--|
| Grading of Levee Roads (14' wide, 3.86miles) | |
|----------------------------------------------|--|

| | hours | rate | amount | fringe |
|--------------------|-------|---------|----------|----------|
| Contract Inspector | 8 | \$36.83 | \$294.64 | \$173.59 |
| Planner/Supervisor | 4 | \$42.63 | \$170.52 | \$100.46 |

| | |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Erosion Repairs | Repairs occur when erosion has occurred or is occurring that threatens the stability and integrity of the levee and/or embankment. The erosion or caving has progressed into the levee section or into the extended footprint of the levee foundation and has compromised the levee foundation stability. |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | hours | rate | amount | fringe |
|------------|-------|---------|------------|----------|
| Operator | 36 | \$35.08 | \$1,262.88 | \$744.02 |
| Planner | 5 | \$42.63 | \$213.15 | \$125.58 |
| Supervisor | 5 | \$42.63 | \$213.15 | \$125.58 |

| | |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maintenance spraying terrestrial | Maintenance spraying of terrestrial vegetation occurs when exotic, invasive, and some native plant communities grow within the reservoir, levves, ebankments, and uplands and interfere with the maintenance and/or operations. |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | hours | rate | amount | fringe |
|--------------------|-------|---------|----------|----------|
| Contract Inspector | 6 | \$36.83 | \$220.98 | \$130.19 |
| Supervisor | 2 | \$42.63 | \$85.26 | \$50.23 |

rcc drain

| | |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maintenance spraying aquatics | Maintenance spraying of aquatic vegetation occurs when exotic, invasive, and some native plant communities grow within the water body of the reservoir and interfere with the maintenance and/or operations. |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | hours | rate | amount | fringe |
|--------------------|-------|---------|----------|----------|
| Contract Inspector | 6 | \$36.83 | \$220.98 | \$130.19 |
| Supervisor | 2 | \$42.63 | \$85.26 | \$50.23 |

| | |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aquatic Mechanical Harvesting | Aquatic mechanical harvesting removes excess and non-desirable species of aquatic vegetation and debris from water bodies maintained by the district using mechanical harvesting methods when the vegetation is too substantial for maintenance spraying. |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | hours | rate | amount | fringe |
|------------|-------|---------|------------|----------|
| Operator | 44 | \$35.08 | \$1,543.52 | \$909.36 |
| Planner | 5 | \$42.63 | \$213.15 | \$125.58 |
| Supervisor | 5 | \$42.63 | \$213.15 | \$125.58 |

| | |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Annual inspection of the Structure and Control Building conducted by Field Station Staff | Formal inspections of the Control Structures and Control Building occur annually by a team of properly trained and certified District staff or external contractors and include the inspection of the electrical components, control structure, gates, seals, tilting, sliding, or settlement of concrete structures, foundations of concrete structures (including aprons), culvert joints, unwanted vegetation growth, obstructions, inlets/discharge area, and concrete surfaces (including roller compacted concrete embankment and steps). |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | hours | rate | amount | fringe |
|------------|-------|---------|----------|----------|
| Technician | 10 | \$33.42 | \$334.20 | \$196.89 |
| Supervisor | 0.5 | \$42.63 | \$21.32 | \$12.56 |

| | |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Routine Inspection Program (District's 5 Yr. plan - Very Thorough incl. Divers to check Structure, Stop Logs) | An in-depth inspection of the structure including the gate, culvert, anodes and other parts of the structure. |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|

| | hours | rate | amount | fringe |
|------------|-------|---------|------------|------------|
| Technician | 10 | \$33.42 | \$334.20 | \$196.89 |
| Diver | 40 | \$42.63 | \$1,705.20 | \$1,004.61 |
| Planner | 1 | \$42.63 | \$42.63 | \$25.12 |
| Supervisor | 1 | \$42.63 | \$42.63 | \$25.12 |

| | |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Semi-annual structure Preventative Maintenance (PM)s | Structure Maintenance tech to maintain the equipment and oilers to prevent any excessive wear on equipment. |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|

| | hours | rate | amount | fringe |
|------------|-------|---------|----------|---------|
| Technician | 5 | \$33.42 | \$167.10 | \$98.45 |
| Planner | 0.5 | \$42.63 | \$21.32 | \$12.56 |

| | |
|--------------------------------------------------------------------------------------------------|----------------------------------------|
| Semi Annual Electrical Structure Maintenance (does not include Anode Inspection and Replacement) | Electrical inspection of the structure |
|--------------------------------------------------------------------------------------------------|----------------------------------------|

| | hours | rate | amount | fringe |
|-------------|-------|---------|----------|----------|
| Electrician | 5 | \$36.83 | \$184.15 | \$108.49 |
| Planner | 0.5 | \$42.63 | \$21.32 | \$12.56 |

| | |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Semi-annual fall protection equipment inspections (Equipment on Structure) | The Cable for the Suspended Power Swing Stages needs to be inspected/replaced. The |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------|

| | hours | rate | amount | fringe |
|------------|-------|---------|----------|---------|
| Technician | 4 | \$33.42 | \$133.68 | \$78.76 |
| Planner | 0.5 | \$42.63 | \$21.32 | \$12.56 |

| | |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Annual pressure cleaning | Cleaning the structure keeps these areas free from unwanted bug and bird debris from the buildings and metal frame and grating of the Sluice gate |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|

| | hours | rate | amount | fringe |
|------------|-------|---------|----------|---------|
| Technician | 5 | \$33.42 | \$167.10 | \$98.45 |
| Planner | 0.5 | \$42.63 | \$21.32 | \$12.56 |

| | |
|-------------------------------------------|----------------------------------------------------------------------------------------------|
| Painting of culvert gate control building | Buildings and the Structure requires the paint to be maintained to keep a Rust free surface. |
|-------------------------------------------|----------------------------------------------------------------------------------------------|

| | hours | rate | amount | fringe |
|------------|-------|---------|----------|----------|
| Technician | 10 | \$33.42 | \$334.20 | \$196.89 |
| Planner | 1.5 | \$42.63 | \$63.95 | \$37.67 |

| | | | |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Maintenance, Inspection and Calibration | <p>... routine and emergency activities such as: inspection, calibration, repair, adjustment and replacement of RTU, stage and gate sensors communication/RF components and hardware (stilling wells, walkways and housings). Six (6) estimated visits = 4 routine and 2 emergencies.</p> | | |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|

| | hours | rate | amount | fringe |
|---------------------------|-------|---------|----------|---------|
| electronics tech | 6 | \$22.00 | \$132.00 | \$77.77 |
| planner scheduler | 1 | \$44.00 | \$44.00 | \$25.92 |
| electronics logistic tech | 1 | \$44.00 | \$44.00 | \$25.92 |

| | |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 5 year gearbox overhaul including electric motors (2 gearboxes) | The Bearings and Sacrificial Bronze nut need to be replaced dependent upon usage, load and age. |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|

| | hours | rate | amount | fringe |
|-------------|-------|---------|------------|----------|
| Technician | 40 | \$33.42 | \$1,336.80 | \$787.57 |
| Electrician | 10 | \$36.83 | \$368.30 | \$216.98 |
| Planner | 1 | \$42.63 | \$42.63 | \$25.12 |

| | |
|--|--|
| | |
|--|--|

| | hours | rate | amount | fringe |
|----------------|-------|---------|-------------|------------|
| Diver | 240 | \$42.63 | \$10,231.20 | \$6,027.68 |
| Technician | 120 | \$33.42 | \$4,010.40 | \$2,362.72 |
| Crew Chief | 44 | \$42.63 | \$1,875.72 | \$1,105.07 |
| Crane Operator | 44 | \$35.08 | \$1,543.52 | \$909.36 |

| | |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Fall protection personal safety equipment inspections (Harnesses and Tethers) | The Davits and securing anchors need to be inspected for mechanical or concrete failures around the anchorage points. |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|

| | hours | rate | amount | fringe |
|------------|-------|---------|---------|---------|
| Technician | 2 | \$33.42 | \$66.84 | \$39.38 |
| Planner | 0.5 | \$42.63 | \$21.32 | \$12.56 |
| | | \$42.63 | \$0.00 | \$0.00 |

| | |
|----------------------------|----------------------------------------------------------------------------------------------------------------|
| Pavement & Sign Inspection | Vandalism/damaged signs may need to be replaced. And asphalt repairs may be needed along the driving surfaces. |
|----------------------------|----------------------------------------------------------------------------------------------------------------|

| | hours | rate | amount | fringe |
|------------|-------|---------|----------|---------|
| Technician | 4 | \$33.42 | \$133.68 | \$78.76 |
| Planner | 0.5 | \$42.63 | \$21.32 | \$12.56 |
| | | \$42.63 | \$0.00 | \$0.00 |

78.27321% of salaries

| total salary | overhead | total salary overhead | annual |
|--------------|----------|-----------------------|------------|
| \$334.48 | \$261.81 | \$596.29 | |
| \$135.49 | \$106.05 | <u>\$241.54</u> | |
| | | \$837.84 | \$3,351.35 |
| | | times 4 | |

| total salary | overhead | total salary overhead | annual |
|--------------|----------|-----------------------|------------|
| \$702.34 | \$549.74 | \$1,252.08 | |
| \$0.00 | \$0.00 | <u>\$0.00</u> | |
| | | \$1,252.08 | \$6,260.42 |
| | | times 5 | |

| total salary | overhead | total salary overhead | annual |
|--------------|----------|-----------------------|------------|
| \$468.23 | \$366.50 | \$834.72 | |
| \$270.98 | \$212.11 | <u>\$483.09</u> | |
| | | \$1,317.81 | \$1,317.81 |
| | | times 4 | |

| | | | | |
|--------------|----------|------------|-----------------------|------------|
| total salary | overhead | | total salary overhead | |
| \$2,006.90 | | \$1,570.87 | \$3,577.77 | |
| \$338.73 | | \$265.13 | \$603.86 | |
| \$338.73 | | \$265.13 | <u>\$603.86</u> | |
| | | | \$4,785.49 | \$4,785.49 |

| | | | | |
|--------------|----------|----------|-----------------------|------------|
| total salary | overhead | | total salary overhead | |
| \$351.17 | | \$274.87 | \$626.04 | |
| \$135.49 | | \$106.05 | \$241.54 | |
| | | | \$867.59 | \$1,735.17 |
| | | | times 2 | 1317 |

| | | | | |
|--------------|----------|----------|-----------------------|------------|
| total salary | overhead | | total salary overhead | |
| \$351.17 | | \$274.87 | \$626.04 | |
| \$135.49 | | \$106.05 | \$241.54 | |
| | | | \$867.59 | \$1,735.17 |
| | | | times 2 | |

| | | | | |
|--------------|----------|------------|-----------------------|------------|
| total salary | overhead | | total salary overhead | |
| \$2,452.88 | | \$1,919.95 | \$4,372.83 | |
| \$338.73 | | \$265.13 | \$603.86 | |
| \$338.73 | | \$265.13 | \$603.86 | |
| | | | \$5,580.55 | \$5,580.55 |

| | | | | |
|--------------|----------|----------|-----------------------|------------|
| total salary | overhead | | total salary overhead | |
| \$531.09 | | \$415.70 | \$946.80 | |
| \$33.87 | | \$26.51 | \$60.39 | |
| | | | \$1,007.18 | \$1,007.18 |

| | | | | |
|--------------|----------|------------|-----------------------|--------|
| total salary | overhead | | total salary overhead | 5 year |
| \$531.09 | | \$415.70 | \$946.80 | |
| \$2,709.81 | | \$2,121.06 | \$4,830.87 | |
| \$67.75 | | \$53.03 | \$120.77 | |
| \$67.75 | | \$53.03 | \$120.77 | |
| | | | \$5,898.44 | |

| | | | | |
|--------------|----------|----------|-----------------------|------------|
| total salary | overhead | | total salary overhead | |
| \$265.55 | | \$207.85 | \$473.40 | |
| \$33.87 | | \$26.51 | \$60.39 | |
| | | | 2 times | |
| | | | \$533.78 | \$1,067.57 |

| | | | | |
|--------------|----------|----------|-----------------------|------------|
| total salary | overhead | | total salary overhead | |
| \$292.64 | | \$229.06 | \$521.70 | |
| \$33.87 | | \$26.51 | \$60.39 | |
| | | | 2 times | |
| | | | \$582.09 | \$1,164.17 |

| | | | | |
|--------------|----------|----------|-----------------------|----------|
| total salary | overhead | | total salary overhead | |
| \$212.44 | | \$166.28 | \$378.72 | |
| \$33.87 | | \$26.51 | \$60.39 | |
| | | | 2 times | |
| | | | \$439.10 | \$878.21 |

| | | | | |
|--------------|----------|----------|-----------------------|------------|
| total salary | overhead | | total salary overhead | |
| \$265.55 | | \$207.85 | \$473.40 | |
| \$33.87 | | \$26.51 | \$60.39 | |
| | | | 2 times | |
| | | | \$533.78 | \$1,067.57 |

| | | | | |
|--------------|----------|----------|-----------------------|------------|
| total salary | overhead | | total salary overhead | |
| \$531.09 | | \$415.70 | \$946.80 | |
| \$101.62 | | \$79.54 | \$181.16 | |
| | | | 5 years | |
| | | | \$1,127.95 | \$1,127.95 |

| total salary | overhead | | total salary overhead | |
|--------------|----------|----------|-----------------------|---------|
| \$209.77 | | \$164.19 | \$373.96 | |
| \$69.92 | | \$54.73 | \$124.65 | |
| \$69.92 | | \$54.73 | \$124.65 | |
| | | | | 4 times |
| | | | \$623.27 | |

| total salary | overhead | | total salary overhead | |
|--------------|----------|------------|-----------------------|---------|
| \$2,124.37 | | \$1,662.81 | \$3,787.19 | |
| \$585.28 | | \$458.12 | \$1,043.40 | |
| \$67.75 | | \$53.03 | \$120.77 | 5 years |
| | | | \$4,951.36 | |

| total salary | overhead | | total salary overhead | |
|--------------|----------|-------------|-----------------------|---------|
| \$16,258.88 | | \$12,726.35 | \$28,985.23 | |
| \$6,373.12 | | \$4,988.44 | \$11,361.56 | |
| \$2,980.79 | | \$2,333.16 | \$5,313.96 | |
| \$2,452.88 | | \$1,919.95 | <u>\$4,372.83</u> | |
| | | | \$50,033.57 | |
| | | | | times 1 |

| total salary | overhead | | total salary overhead | |
|--------------|----------|---------|-----------------------|----------|
| \$106.22 | | \$83.14 | \$189.36 | |
| \$33.87 | | \$26.51 | \$60.39 | |
| \$0.00 | | \$0.00 | \$0.00 | |
| | | | \$249.75 | \$249.75 |

total salary overhead

| | |
|----------|----------|
| \$212.44 | \$166.28 |
| \$33.87 | \$26.51 |
| \$0.00 | \$0.00 |

total salary overhead

| |
|----------|
| \$378.72 |
| \$60.39 |
| \$0.00 |

| | |
|----------|----------|
| \$439.10 | \$439.10 |
|----------|----------|

\$33,084.46

| |
|-----------------------|
| salary |
| salary |
| annual \$33,084.46 |

additional at 5 year

5 year

equipment

materials subs

240

6000

21600

768

2030

3465

1464

288

1103

2736

18000

288

539

2736

3732.6

336

\$5,898.44

1503.12

437.5

252

252

252

168

175

\$2,493.06 672

\$4,951.36 2187 1748 1520

\$50,033.57 3000

C51 Reservoir Maintenance and Repair Activities

Reservoir, Embankments, Levees etc.

| |
|--------------------------------------------------------------------------------------------------------------|
| |
| Annual inspection of the Reservoir, Embankment, and Levee conducted by Field Station Staff |
| Routine Inspection Program (District's 5 Yr. plan - Very Thorough incl. survey work, Divers to check aprons) |
| Flat mowing (30 ACRES) |
| Slope mowing |
| Grading of Levee Roads (14' wide, 3.86miles) |

Boat ramp maintenance **(2 Each)**

Erosion Repairs

RCC Drain Maintenance and Repairs

Shoal removal

Maintenance spraying terrestrial

Maintenance spraying aquatics

Aquatic Mechanical Harvesting

Misc. Repairs

Access gate, fence , signs, etc. repairs

Annual inspection of the Structure and Control Building conducted by Field Station Staff

Routine Inspection Program (District's 5 Yr. plan - Very Thorough incl. Divers to check Structure, Stop Logs)

Semi-annual structure Preventative Maintenance (PM)s

Semi Annual Electrical Structure Maintenance (does not include Anode Inspection and Replacement)

Semi-annual fall protection equipment inspections (Equipment on Structure)

| |
|-------------------------------------------------------------------------------|
| Annual pressure cleaning |
| Painting of culvert gate control building |
| 5 year gearbox overhaul including electric motors (2 gearboxes) |
| 15 year gate overhaul (2 gates) |
| Misc. Repairs |
| Fall protection personal safety equipment inspections (Harnesses and Tethers) |
| Pavement & Sign Inspection |
| SCADA System Inspection |
| Stilling Well Inspection and Calibration |
| Pump Station (Electric Submersible) (Three Pump Bay with One Pump) |
| Annual Army Corp of Engineers COE inspection |

| |
|-----------------------------------------------------------------|
| Routine Inspection Program |
| Monthly station Preventative Maintenance PMs |
| Annual generator service (if applicable) |
| Weekly test runs |
| Backflow gate maintenance |
| Distance to Water Measurements (DTW's) |
| Painting of pump control building |
| Electric submersible overhauls on average once every five years |
| Fuel tank testing |
| Change gearbox oil |
| Semi Annual Pumps Station Electrical Maintenance |
| Misc. Repairs |
| Fall protection safety inspections |

| Description | Frequency |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <p>Formal inspections of the Reservoir, Embankments and levees occur annually by a team of properly trained and certified District staff or external contractors and include the inspection of unwanted vegetation growth, sod cover, slope stability, erosion/bank caving, shoaling, settlement, depressions,/rutting. Cracking, animal control, concrete surfaces (including roller compacted concrete) and banks, drainage systems, and seepage.</p> | <p>Annually</p> |
| | <p>5 years</p> |
| <p>Flat mowing of levees keeps these areas free from unwanted vegetation for maintenance purposes. This includes the areas on the crest, side slopes, and berm minus three feet from canal top of bank.</p> | <p>5 times per year minimum</p> |
| <p>Side-slope mowing keeps these areas free from unwanted vegetation for maintenance purposes and inspecting side slopes for undermining and erosion. The work consists of side slope mowing of grassed and/or vegetated embankment areas, includes canal bank side slope and three feet from canal top of bank. Side slope mowing is defined as those areas that cannot be mowed with a traditional bat wing or bush hog mower.</p> | <p>N/A. No slope mowing required per drawings dated 6/06/2014.</p> |
| <p>Levees and roads require maintenance to keep a smooth drivable surface free of ruts and potholes caused by normal site deterioration and construction traffic.</p> | <p>4 times per year</p> |

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Boat Ramp Maintenance will ensure reliable access to District managed water way systems. Ramps will be inspected annually and maintenance to be performed as per inspection.</p> | <p>Annually</p> |
| <p>Repairs occur when erosion has occurred or is occurring that threatens the stability and integrity of the levee and/or embankment. The erosion or caving has progressed into the levee section or into the extended footprint of the levee foundation and has compromised the levee foundation stability.</p> | <p>Annually, up to 180cy</p> |
| <p>RCC Drain Maintenance will ensure that the RCC drains remain free and clear of debris. Repairs Occur when the culvert has become clogged, experiencing deterioration and/or significant leakage, is in danger of collapsing, or has already begun to collapse.</p> | <p>Not included RCC Drain Issues should be addressed by owner.</p> |
| <p>Shoal removal is performed when sediment builds up or material is washed into the reservoir restricting the conveyance, impairing channel flow or adversely effecting the operations.</p> | <p>Not Included. Shoal Removal at inflow/outflow pipes can not be done utilizing District resources. Owner will need to seek other means to address shoaling issues.</p> |
| <p>Maintenance spraying of terrestrial vegetation occurs when exotic, invasive, and some native plant communities grow within the reservoir, levees, embankments, and uplands and interfere with the maintenance and/or operations.</p> | <p>Two times per year</p> |
| <p>Maintenance spraying of aquatic vegetation occurs when exotic, invasive, and some native plant communities grow within the water body of the reservoir and interfere with the maintenance and/or operations.</p> | <p>Two times per year</p> |
| <p>Aquatic mechanical harvesting removes excess and non-desirable species of aquatic vegetation and debris from water bodies maintained by the district using mechanical harvesting methods when the vegetation is too substantial for maintenance spraying.</p> | <p>Annually, up to 180cy</p> |
| | <p>As needed</p> |
| | <p>As needed</p> |
| <p>Description</p> | <p>Frequency</p> |

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <p>Formal inspections of the Control Structures and Control Building occur annually by a team of properly trained and certified District staff or external contractors and include the inspection of the electrical components, control structure, gates, seals, tilting, sliding, or settlement of concrete structures, foundations of concrete structures (including aprons), culvert joints, unwanted vegetation growth, obstructions, inlets/discharge area, and concrete surfaces (including roller compacted concrete embankment and steps).</p> | <p>Annually</p> |
| <p>An in-depth inspection of the structure including the gate, culvert, anodes and other parts of the structure.</p> | <p>5 years</p> |
| <p>Structure Maintenance tech to maintain the equipment and oilers to prevent any excessive wear on equipment.</p> | <p>6 months</p> |
| <p>Electrical inspection of the structure</p> | <p>6 months</p> |
| <p>The Cable for the Suspended Power Swing Stages needs to be inspected/ replaced. The</p> | <p>6 months</p> |

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Cleaning the structure keeps these areas free from unwanted bug and bird debris from the buildings and metal frame and grating of the Sluice gate | Annually |
| Buildings and the Structure requires the paint to be maintained to keep a Rust free surface. | 5 years |
| The Bearings and Sacrificial Bronze nut need to be replaced dependent upon usage, load and age. | 5 Years |
| Sluice gate seals and Slide HDPE replacement | 15 years |
| | As needed |
| The Davits and securing anchors need to be inspected for mechanical or concrete failures around the anchorage points. | Annually |
| Vandalism/damaged signs may need to be replaced. And asphalt repairs may be needed along the driving surfaces. | |
| | |
| | |
| | Annually |

| | |
|--|-----------|
| | 5 years |
| | Monthly |
| | Annually |
| | Weekly |
| | 15 years |
| | Monthly |
| | 5 years |
| | 5 years |
| | Annually |
| | As needed |
| | 6 months |
| | As needed |
| | Annually |

| Manhours/Position | Manhours/Position Totals |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 20 hrs / Operator Inspector @ \$35.08 = \$701.60 4 hrs / Planner Supervisor @ \$42.63 = \$170.52 Subtotal = \$872.12 Markup 20% = \$218.03 Total = \$1,090.15 | \$1,090.15 |
| | \$0.00 |
| 120 ACRES / Contract Mower @ \$30 = \$3,600 12 hrs / Contract Inspector @ \$36.83 = \$441.96 4 hrs / Planner Supervisor @ \$42.63 = \$170.52 Subtotal = \$4,212.48 Markup 20% = \$1,053.12 Total = \$5,265.60 | \$5,264.60 |
| N/A | \$0.00 |
| 80 hrs / Operator @ \$35.08 = \$2,806.40 8 hrs / Crew Chief @ \$42.63 = \$341.04 16 hrs / Planner Supervisor @ \$42.63 = \$682.08 Subtotal = \$3,829.52 Markup 20% = \$957.38 Total = \$4,786.90 | \$4,786.90 |

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Need additional information on boat ramp construction. | \$0.00 |
| 30 hrs / Operator @ \$35.08 = \$1,052.40 4 hrs / Crew Chief @ \$42.63 = \$170.52 4 hrs / Planner Supervisor @ \$42.63 = \$170.52 Subtotal = \$1,393.44 Markup 20% = \$348.36 Total = \$1,741.80 | \$1,741.80 |
| | |
| N/A | \$0.00 |
| 20 hrs / Spray Contractor @ \$57 = \$1,140 6 hrs / Contract Inspector @ \$36.83 = \$220.98 2 hrs / Planner Supervisor @ \$42.63 = \$85.26 Subtotal = \$1,446.24 Markup 20% = \$361.56 Total = \$1,807.80 | \$1,807.80 |
| 20 hrs / Spray Contractor @ \$57 = \$1,140 6 hrs / Contract Inspector @ \$36.83 = \$220.98 2 hrs / Planner Supervisor @ \$42.63 = \$85.26 Subtotal = \$1,446.24 Markup 20% = \$361.56 Total = \$1,807.80 | \$1,807.80 |
| 40 hrs / Operator @ \$35.08 = \$1,403.20 4 hrs / Crew Chief @ \$42.63 = \$170.52 4 hrs / Planner Supervisor @ \$42.63 = \$170.52 Subtotal = \$1,744.24 Markup 20% = \$436.06 Total = \$2,180.30 | \$2,180.30 |
| | |
| | |
| Manhours/Position | Manhours/Position Totals |

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <p>8 hrs / Structure Maintenance Technician @ \$33.42 = \$267.36 .5 hrs / Planner Supervisor @ \$42.63 = \$21.31 Subtotal = \$288.67 Markup 20% = \$72.17 Total = \$360.84</p> | <p>\$360.84</p> |
| <p>10 hrs / Structure Maintenance Technician @ \$33.42 = \$334.42 40 hrs / Diver @ 42.63 = \$1705.20 1 hrs / Crew Chief @ 42.63 = 42.63 1 hrs / Planner Supervisor @ \$42.63 = \$42.63 Subtotal = \$2124.88 Markup 20% = \$531.22 Total = \$2656.10</p> | <p>\$2,656.10</p> |
| <p>3 hrs / Structure Maintenance Technician @ \$33.42 = \$ 100.26 .25 hrs / Planner Supervisor @ \$42.63 = \$ 10.65 Subtotal = \$ 110.65 Markup 20% = \$ 27.66 Total = \$ 138.31</p> | <p>\$138.31</p> |
| <p>3 hrs / Industrial Electrician @ \$36.83 = \$ 110.49 .25 hrs / Planner Supervisor @ \$42.63 = \$ 10.65 Subtotal = \$ 121.14 Markup 20% = \$ 30.28 Total = \$ 151.42</p> | <p>\$151.42</p> |
| <p>3 hrs / Structure Maintenance Technician @ \$33.42 = \$ 100.26 .25 hrs / Planner Supervisor @ \$42.63 = \$ 10.65 Subtotal = \$ 110.65 Markup 20% = \$ 27.66 Total = \$ 138.31</p> | <p>\$138.31</p> |

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <p>4 hrs / Structure Maintenance Technician @ \$33.42 = \$ 133.68 .25 hrs / Planner Supervisor @ \$42.63 = \$ 10.65 Subtotal = \$ 144.33 Markup 20% = \$ 36.08 Total = \$ 180.41</p> | \$180.41 |
| <p>4 hrs / Structure Maintenance Technician @ \$33.42 = \$ 133.68 .25 hrs / Planner Supervisor @ \$42.63 = \$ 10.65 Subtotal = \$ 144.33 Markup 20% = \$ 36.08 Total = \$ 180.41</p> | \$180.41 |
| <p>40 hrs / Structure Maintenance Technician @ \$33.42 = \$ 1336.80 10 hrs / Industrial Electrician @ \$36.83 = \$ 368.30 1 hrs / Planner Supervisor @ \$42.63 = \$ 42.63 Subtotal = \$ 1747.73 Markup 20% = \$ 436.93 Total = \$ 2184.66</p> | \$2,184.66 |
| Trash Rake repairs/ Lighting / Rust / Erosion | |
| <p>1 hrs / Structure Maintenance Technician @ \$33.42 = \$ 33.42 .25 hrs / Planner Supervisor @ \$42.63 = \$ 10.65 Subtotal = \$ 44.07 Markup 20% = \$ 11.02 Total = \$ 55.09</p> | \$55.09 |
| <p>4 hrs / Structure Maintenance Technician @ \$33.42 = \$ 133.68 .25 hrs / Planner Supervisor @ \$42.63 = \$ 10.65 Subtotal = \$ 144.33 Markup 20% = \$ 36.08 Total = \$ 180.41</p> | \$180.41 |
| | |
| | |
| | |
| | |

| Equipment/Hours | Equipment/Hours Total |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Pickup / 10 hrs @ \$20 = \$200 Subtotal = \$200 Markup 20% = \$50 Total = \$250 | \$250.00 |
| | \$0.00 |
| Pickup / 12 hrs @ \$20 = \$240 Subtotal = \$240 Markup 20% = \$60 Total = \$300 | \$300.00 |
| N/A | \$0.00 |
| Grader / 72 hrs @ \$58 = \$4176 Semi & Trailer / 8 hrs @ \$70.45 = \$563.60 Pickup / 16 hrs @ \$20 = \$320 Subtotal = \$5,059.60 Markup 20% = \$1,264.90 Total = \$6,324.50 | \$6,324.50 |

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Need additional information on boat ramp construction. | \$0.00 |
| Gradall / 10 hrs @ \$139.05 = \$1,390.50 Dump Truck / 20 hrs@ \$65 = \$1,300 Loader / 3 hrs @ \$39 = \$117 Pickup / 4 hrs @ \$20 = \$80 Subtotal = \$2,887.50 Markup 20% = \$721.88 Total = \$3,609.38 | \$3,609.38 |
| N/A | |
| N/A | \$0.00 |
| Pickup / 6 hrs @ \$20 = \$120 Subtotal = \$120 Markup 20% = \$30 Total = \$150 | \$150.00 |
| Pickup / 6 hrs @ \$20 = \$120 Subtotal = \$120 Markup 20% = \$30 Total = \$150 | \$150.00 |
| Gradall / 10 hrs @ \$139.05 = \$1,390.50 Dump Truck / 20 hrs@ \$65 = \$1,300 Boat / 10 hrs @ \$14 = \$140 Pickup / 14 hrs @ \$20 = \$280 Subtotal = \$3,110.50 Markup 20% = \$777.63 Total = \$3,888.13 | \$3,888.13 |
| | \$0.00 |
| | \$0.00 |
| Equipment/Hours | Equipment/Hours Total |

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <p>Utility Truck / 8 hrs @ \$35.00 = \$280 Subtotal = \$ 280 Markup 20% = \$ 70.00 Total = \$350</p> | <p>\$350.00</p> |
| <p>Utility Truck / 10 hrs @ \$35.00 x 2 = \$700.00 Dive Trailer / 10 hrs @ \$10.25 = \$102.50 Subtotal = \$ 802.50 Markup 20% = \$ 200.66 Total = \$1003.12</p> | <p>\$1,003.12</p> |
| <p>Utility Truck / 3 hrs @ \$35.00 = \$105.00 Subtotal = \$ 105.00 Markup 20% = \$ 26.25 Total = \$131.25</p> | <p>\$131.25</p> |
| <p>Utility Truck / 3 hrs @ \$35.00 = \$105.00 Subtotal = \$ 105.00 Markup 20% = \$ 26.25 Total = \$131.25</p> | <p>\$131.25</p> |
| <p>Utility Truck / 3 hrs @ \$35.00 = \$105.00 Subtotal = \$ 105.00 Markup 20% = \$ 26.25 Total = \$131.25</p> | <p>\$131.25</p> |

| | |
|-----------------------------------------------------------------------------------------------------------------------|-------------------|
| Utility Truck / 4 hrs @ \$35.00 = \$140.00 Subtotal = \$ 140.00 Markup 20% = \$ 35.00 Total = \$175.00 | \$175.00 |
| Utility Truck / 4 hrs @ \$35.00 = \$140.00 Subtotal = \$ 140.00 Markup 20% = \$ 35.00 Total = \$175.00 | \$175.00 |
| Utility Truck / 50 hrs @ \$35.00 = \$1750.00 Subtotal = \$ 1750.00 Markup 20% = \$ 437.50 Total = \$ 2187.50 | \$2,187.50 |
| | |
| To be based on Established Trend | |
| N/A | \$0.00 |
| Utility Truck / 4 hrs @ \$35.00 = \$140.00 Subtotal = \$ 140.00 Markup 20% = \$ 35.00 Total = \$175.00 | \$175.00 |
| | |
| | |
| | |
| | |

| Materials | Materials Total |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| N/A | \$0.00 |
| | \$0.00 |
| N/A | \$0.00 |
| N/A | \$0.00 |
| No material costs considered. A change order will be submitted for additional resources (Material & Labor) in the event major road repair is required. | \$0.00 |

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Need additional information on boat ramp construction. | |
| #1 Fill - 200 Tons @ \$6.10 = \$1,220 Subtotal = \$1,220 Markup 20% = \$305 Total = \$1,525 | \$1,525.00 |
| N/A | |
| N/A | \$0.00 |
| Glyphosate - 10 Gal @ \$17.40 = \$174 Arsenal - 5 Gal @ \$46.60 = \$233 MSO - 5 Gal @ \$10.55 = \$52.75 Subtotal = \$459.75 Markup 20% = \$114.94 Total = \$574.69 | \$574.69 |
| Tribune - 5 Gal @ \$39.69 = \$198.45 MSO - 2.5 Gal @ \$10.55 = \$26.38 Subtotal = \$224.83 Markup 20% = \$56.21 Total = \$281.04 | \$281.04 |
| N/A | \$0.00 |
| N/A | \$0.00 |
| N/A | \$0.00 |
| Materials | Materials Total |

| | |
|----------------------------------------------|--------|
| N/A | \$0.00 |
| N/A | \$0.00 |
| N/A | \$0.00 |
| N/A | \$0.00 |
| Cable replacement based on Established Trend | \$0.00 |

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| N/A | \$0.00 |
| N/A | \$0.00 |
| Bearings AXK90120- 4ea @ \$32 = \$128.00 O-Rings ARP568128 4ea @ 3.15 = \$12.60 Stem Nut P/N 35594 2ea @ 538.4 = \$1,076.80 Signs 12"x24" 4ea @ \$30 = \$120 Asphalt Road Repairs 1ea @ \$120 Subtotal = \$ 1,457.40 Markup 20% = \$ 364.35 Total = \$ 1,821.75 | \$1,821.75 |
| TBD | |
| To be based on Established Trend | |
| N/A | \$0.00 |
| \$120.00 | \$120.00 |
| | |
| | |
| | |
| | |

| Price -SFWMD Annual Costs | Subcontractor Manhour/Equipment/Material/Trip |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------|
| \$1,340.15 | |
| \$0.00 | |
| \$5,564.60 | 120 Acres / Contract Mower @ \$30.00=\$3600 Subtotal = \$3600.00 Markup 20% = \$720 Total = \$4320 per cycle |
| \$0.00 | |
| \$11,111.40 | |

| | |
|--------------------------------------------------------|---------------------------|
| Need additional information on boat ramp construction. | |
| \$6,876.18 | |
| N/A | |
| N/A | |
| \$2,532.49 | |
| \$2,238.84 | |
| \$6,068.43 | |
| | |
| | |
| | Price -SFWMD Annual Costs |

| | |
|--|------------|
| | \$710.00 |
| | \$3,659.23 |
| | \$269.56 |
| | \$282.67 |
| | \$269.56 |

| | |
|--|----------------------------------|
| | \$355.41 |
| | \$355.41 |
| | \$6,193.91 |
| | TBD |
| | To be based on Established Trend |
| | \$55.09 |
| | \$355.41 |
| | |
| | |
| | |
| | |

| Price - Subcontractor | Total Combined Costs |
|-----------------------|----------------------|
| \$0.00 | \$1,340.15 |
| \$0.00 | \$0.00 |
| \$21,600.00 | \$27,164.60 |
| \$0.00 | \$0.00 |
| \$0.00 | \$11,111.40 |

| | |
|-----------------------|----------------------|
| \$0.00 | #VALUE! |
| \$0.00 | \$6,876.18 |
| N/A | |
| \$0.00 | |
| \$0.00 | |
| In Manhours | |
| N/A | |
| N/A | |
| N/A | |
| Price - Subcontractor | Total Combined Costs |

| | |
|-----------------------------------------------------------------------------------------------------------------------|----------|
| N/A | |
| 10 hrs / Licensed Trapper @ \$35.00 = \$350.00 Subtotal = \$350.00 Markup 20% = \$87.50 Total = \$ 437.50 | \$437.50 |
| N/A | |
| N/A | |
| N/A | |

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| N/A | |
| N/A | |
| 2 Motors rewound and overhauled at certified motor shop @ 608.00 each = \$ 1216.000 Stem Lathe Repairs \$ TBD Subtotal = \$ 1216.00 Markup 20% = \$ 304 Total = \$ 1520.00 | \$1,520.00 |
| TBD | |
| | |
| N/A | |
| N/A | |
| | |
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| Additional Comments |
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| Rich Virgil/ Kathy Collins / Jose Guardiario |
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Rich Virgil/ Kathy Collins

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| Larry Latour |
| Larry Latour |
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