
B. Funding Overview

1. Summary of Funding Examples (**Attachment B**)

C. Proposed Planning Step 2

1. Summary of Major Tasks **Attachment C.1**
2. Major and Sub-Tasks **Attachment C.2**
3. Summary of Level of Effort and Services **Attachment C.3**

We welcome the opportunity to further discuss these items at your convenience.

enc: as noted

S:\Projects\HOVMSD\10060 interceptor\admin\correspondence\memo HOVMSD 121217 meeting.doc

EXHIBITS

Exhibit B
SUMMARY of FUNDING EXAMPLES

SUMMARY of BORROWING ALTERNATIVES and RATE INCREASES
Interceptor System Improvements
 Heart of the Valley Metropolitan Sewerage District

REVIEW
12/01/17

| Description | Annual payment | | | Notes |
|-------------|----------------|---------|----------|-------|
| | CWF (1) | STF (2) | Bank (3) | |

SUMMARY

| | | | | |
|-----------------------------|-----------|--------|--------|--|
| | 0.0597 | 0.0736 | 0.0794 | (A/P) factor |
| customers | | | | TBV |
| examples - rate adjustments | | | | TBV |
| examples - borrowing | | | | |
| 50,000 | 3,000 | | | |
| ▶ 100,000 | 6,000 | 7,400 | 7,900 | annual averages |
| annual principal | 5,000 | 5,000 | | |
| annual interest | 1,000 | 2,400 | | |
| 250,000 | 14,900 | | | |
| 500,000 | 29,900 | | | |
| 750,000 | 44,800 | | | |
| 1,000,000 | 59,700 | | | |
| ▶ annual principal | 50,000 | | | |
| annual interest | 9,700 | | | |
| ▶ 21,475,330 | 1,283,100 | | | opinion of cost summary s.4 (11/05/17) |

Footnotes:

(1) 20 years, ~1-3/4% (1.760)

(2) 20 years, 4.0 %
 term and rates (4th 1/4 2016)
 2 - 5 years 3.0
 6 - 10 3.5
 11 - 20 4.0

▶ Clean Water Fund was 2-5/8% (2.625)
 State Trust Fund (or municipal bonds)

(3) 20 years, 4-7/8 % (rates need to be confirmed) Bank Loan

© Strategic Municipal Services, Inc.



Exhibits C.1
SUMMARY of MAJOR TASKS

SUMMARY of PRE-DESIGN TASKS
Priority Action Plan - Interceptor System
Heart of the Valley Metropolitan Sewerage District

REVIEW
12/05/17

A Opinion of Cost - Relocate Gravity Interceptor on Land

- review key planning reports including 1975 Facility Plan
 - develop plan / profile drawings (north and south banks)
 - review / discuss with large Utility Contractors for feasibility and costs
 - Opinion of Cost - planning level
 - compare alternatives and advantages / disadvantages
-

B Agencies (continued permit preparations)

- FRSNA (Stark)
 - wisDNR
 - NR 347 "pre-application" (Kincaid, Donoughe)
 - profile river bed at access points
 - test sediment from representative samples
 - Chapter 30 "pre-application" (Koehnke)
-

C Finance, Funding, Rates

- consider borrowing alternatives and impacts to rates
 - EIF Clean Water Fund (CWF) - why it's recommended
-

D Sulfides

- review historical Odalog data
 - review sulfur / sulfide sample data January - June 2018
 - evaluate alternatives to "bind" wastewater sulfides in interceptor
 - review CIPP and coating system resistance to MIC
 - recommendations / Plan of Action
-

E Workshops / Working Meetings

- | | |
|---|----------------------|
| • Rehabilitation Alternatives / Methods | Commission |
| • Alternative - Relocate System to Land | Staff and Commission |
| • Finance, Funding, Rates | Commission |
| • Public Relations (develop Strategy) | Staff and Commission |
| • Review and Select Alternative | Staff and Commission |
-

Strategic Municipal Services, Inc.



Exhibit C.2
MAJOR and SUB - TASKS

SUMMARY of PRE-DESIGN TASKS
Priority Action Plan - Interceptor System
Heart of the Valley Metropolitan Sewerage District

REVIEW
12/05/17

A Opinion of Cost - Relocate Gravity Interceptor on Land

- review key planning reports including 1975 Facility Plan
 - review alternatives / routes
 - opinions of cost (construction, O&M)
 - capacity, projections (1975 - present)
 - compare with present-day and future 50-year

-
- develop plan / profile drawings (north and south banks)
 - prepare 3D surface from County 2' contours
 - evaluate gravity system layout including
 - existing / proposed meter stations reuse existing or construct new
 - river / syphon crossing(s) reuse existing or construct new
 - bedrock (1975, 2004 and meter station plan drawings)
 - land ownership, easements, construction impacts
 - impacts to private shoreline property
 - shoreline disturbance "footprint"
 - evaluate alternatives to "reuse" interceptor for community stormwater drainage

-
- review / discuss with large Utility Contractors for feasibility and costs
 - alternatives
 - conventional excavation
 - directional drill / bore and jack likely not an option, large diameter, flat grade / construction tolerances, shallow / surface

-
- Opinion of Cost - planning level (north / south bank alternatives)
 - interceptor and structures
 - meter stations
 - river crossings

-
- Compare Alternatives and advantages / disadvantages
 - consider phasing construction for rehabilitation project components
 - determine planning level "cost of phasing"

B Agencies (continued permit preparations)

- FRSNA (Stark)
- wisDNR
- NR 347 "pre-application" Kincaid, Donoughe
 - communications
 - propose uniform composite samples Riverside and Central Parks
 - profile river bed at access points dredge depths / work limits
 - lab test sediment from representative samples
 - dredge disposal alternatives
- Chapter 30 "pre-application" Koehnke

C Finance, Funding, Rates

- wisDNR CWF (likely best alternative)
- annual principal / interest
- review rate alternatives
 - evaluate budget impacts
 - evaluate community allocations

SUMMARY of PRE-DESIGN TASKS
Priority Action Plan - Interceptor System
Heart of the Valley Metropolitan Sewerage District

REVIEW
12/05/17

D Sulfides

- review historical **Odalog** data
 - review sulfur / sulfide sample data
 - evaluate alternatives to "bind" wastewater sulfides in interceptor
 - dosing locations
 - required improvements
 - annual costs

 - review CIPP and coating system resistance to MIC
 - recommendations / Plan of Action
- January - June 2018
-

E Workshops / Working Meetings

- Rehabilitation Alternatives / Methods
 - Work Items, locations
 - Opinion of Cost
 - Schedules

Commission

 - Alternative - Relocate System to Land
 - Finance, Funding, Rates
 - Public Relations (develop Strategy)
 - communities
 - public along river banks adjacent to construction
 - website / electronic

Staff and Commission
Commission
Staff and Commission

 - Review and Select Alternative
- Staff and Commission
-

Strategic Municipal Services, Inc.

SMS

Exhibit C.3
SUMMARY of LEVEL of EFFORT and SERVICES

SUMMARY of PRE-DESIGN WORK ITEMS
 Priority Action Plan - Interceptor System
 Heart of the Valley Metropolitan Sewerage District

REVIEW
 12/05/17

| Description | Summary | | Notes |
|---|------------|---------------|-------|
| | Hours | Value | |
| Summary | 392 | 48,380 | |
| <hr/> | | | |
| A Opinion of Cost - Relocate Gravity Interceptor on Land | | | |
| • review key planning reports including 1975 Facility Plan | 36 | 4,620 | |
| <hr/> | | | |
| • develop plan / profile drawings (north and south banks) | 102 | 11,760 | |
| <hr/> | | | |
| • review / discuss with large Utility Contractors | 24 | 2,760 | |
| <hr/> | | | |
| • Opinion of Cost - planning level | 56 | 6,500 | |
| <hr/> | | | |
| • compare alternatives | 12 | 1,380 | |
| <hr/> | | | |
| B Agencies (continued permit preparations) | 92 | 12,600 | |
| • FRSNA | | | |
| • wisDNR | | | |
| <hr/> | | | |
| C Finance, Funding, Rates | 24 | 2,820 | |
| <hr/> | | | |
| D Sulfides | 66 | 7,680 | |
| <hr/> | | | |
| E Workshops / Working Meetings | 58 | 7,320 | |
| • Rehabilitation Alternatives / Methods | | | |
| • Alternative - Relocate System to Land | | | |
| • Finance, Funding, Rates | | | |
| • Public Relations (develop Strategy) | | | |
| • Review and Select Alternative | | | |

Strategic Municipal Services, Inc.
