

TO: COMMITTEE MEMBERS
FROM: MICHAEL LEBRUN *ml*
DATE: May 13, 2010



REVIEW STATUS OF SOUTHLAND WWTF UPGRADE PROJECT

ITEM

Review status of Southland WWTF Upgrade Project [Receive Report].

BACKGROUND

Attached is the latest Monthly Report from AECOM along with a draft project Budget. AECOM has continued to work on the additional site planning work that was authorized by the Board in March. See Agenda Item 3.

AECOM has submitted the draft final plans for the Frontage Road Trunk Sewer that are currently part of the Waterline Intertie Project Bid Package 2. See Agenda Item 4.

Doug Wood and Associates is proceeding with preparation of the Draft Environmental Impact Report. The public draft of the EIR is currently scheduled to be completed by July 20, 2010.

It should be noted that the Board has already funded the proposed Phase 1 project and the District already owns the land for construction for the Phase 1 project.

RECOMMENDATION

Staff recommends that the Committee receive AECOM's presentation and ask questions as appropriate.

ATTACHMENT

- MONTHLY STATUS REPORT

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Memorandum

To Michael LeBrun, Intertim General Manager - NCSD Page 1

CC Peter Sevcik, Jon Hanlon, Josh Reynolds, Kirk Gonzalez, Eileen Shields, Jim Froelicher

Subject Southland WWTF Upgrade Project – Design Phase Status Report

From Michael K. Nunley, PE

Date May 5, 2010

The Project Team has completed the following items this month:

1. AECOM has been working with District staff on the revised phasing plan, including layout and updated costs.
2. A meeting with the peer reviewers, AECOM, and NCSD staff has been scheduled to go over the revised phasing plan, receive input, and discuss upcoming submittals.
3. AECOM will present the revised Phasing Plan and Cost Opinion to the Southland WWTF Upgrade Project Committee.

Schedule

The latest Project Schedule is attached.

Budget Status

The Invoice Summary is attached. The Invoice Summary indicates an amount invoiced which is consistent with the work completed to date. Amounts charged to Task Group #2 to date reflect work on construction documents for portions of the Frontage Road Sewer Upgrade. The project cost opinion has not been updated since the January 2009 Master Plan, but the summary table is included and will be updated with the WWTF Master Plan Amendment.

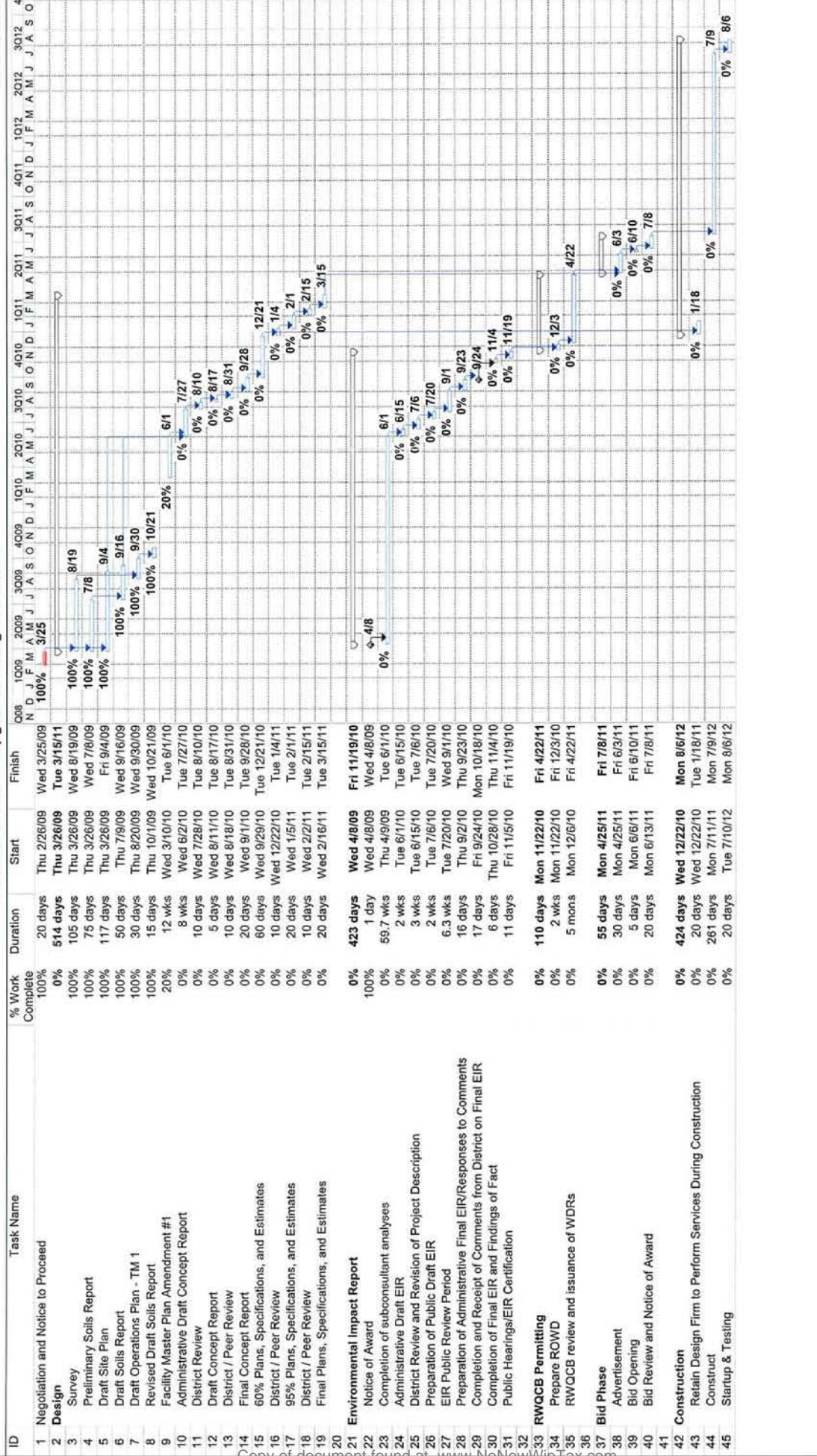
Yours Sincerely



Michael K. Nunley, PE

Enclosures: Project Schedule
Invoice Summary
Project Budget Summary

Southland WWTF Upgrades Design Schedule



Project: Southland Design & 03 09
Date: Wed 5/5/10

Legend:
 Task: Solid bar
 Progress: Dotted bar
 Baseline: Dashed bar
 Milestone: Diamond
 Baseline Milestone: Solid bar with diamond
 Summary: Solid bar with diamond
 Rolled Up Task: Solid bar with diamond
 Critical Task: Solid bar with diamond
 Baseline Milestone: Solid bar with diamond
 Summary: Solid bar with diamond
 Rolled Up Task: Solid bar with diamond
 Critical Task: Solid bar with diamond
 Rolled Up Milestone: Solid bar with diamond
 Baseline Summary: Solid bar with diamond
 Rolled Up Baseline: Solid bar with diamond
 Rolled Up Milestone: Solid bar with diamond
 Rolled Up Progress: Solid bar with diamond
 Split: Solid bar with diamond
 Baseline Split: Solid bar with diamond
 External Tasks: Solid bar with diamond
 Project Summary: Solid bar with diamond
 Group By: Summary
 Deadline: Solid bar with diamond

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Project Budget Summary

5/5/2010

Engineering Services for NCSD - Southland WWTF Upgrade

Nipomo CSD

	Total Budget	Amount Previously Invoiced	Current Invoice Amount	% of Budget Earned to date	% of Work Complete
Task Group 1 - Concept Design Phase	\$195,123.00	\$151,536.94	-\$11,088.75	72%	72%
Task Group 2 - Construction Documents	\$478,948.00	\$12,514.50	\$2,126.25	3%	3%
Task Group 3 - Project Management	\$68,787.00	\$20,918.25	\$1,296.00	32%	32%
Task Group 4 - Assistance During Bid	\$39,539.00	\$0.00	\$0.00	0%	0%
Task Group 5 - Office Engineering Services	\$147,198.00	\$0.00	\$0.00	0%	0%
Task Group 7 - Amendment 1 Facility MP	\$37,020.00	\$6,655.50	\$21,802.50	77%	77%
Total	\$966,615.00	\$191,625.19	\$14,136.00	21%	21%

Note: Current amount invoiced for Task Group 1 reflects labor hours moved from Task Group 1 to Task Group 7 for work related to the Master Plan Amendment.

Date Printed 5/5/2010

Item	Description	Budgeted Amount Jan 2009 Master Plan (1)(2)(3)	Updated Amount
1	Frontage Road sewer upgrade (street to influent pump station)	\$366,000 (4) (5)	\$366,000
2	Influent pump station upgrade	\$670,900	\$670,900
3	Influent screening system	\$327,400	\$327,400
4	Grit removal system	\$402,700	\$402,700
5	Phase I Biolac system	\$3,877,500	\$3,877,500
6	Phase I Sludge holding lagoons	\$67,700	\$67,700
7	Phase I Sludge drying beds	\$1,160,700	\$1,160,700
	Construction Subtotal	\$6,872,900	\$6,872,900
8	Contingency	\$2,061,870 (6)	\$2,061,870
9	Design-Phase Engineering	\$923,093	\$923,093
10	Construction Management	\$1,138,777 (7)	\$1,138,777
11	Environmental Mitigation	-- (8)	-- (8)
12	Environmental Monitoring	-- (8)	-- (8)
13	Permitting Fees	-- (8)	-- (8)
	WWTF PROJECT TOTAL (Rounded to 1000)	\$10,997,000	\$10,997,000

13	Frontage Rd Sewer Upgrade Project (Division St to WWTF property)	--	\$1,658,600 (9) (10)
14	Frontage Rd Sewer Upgrade Project Contingency	--	\$331,720 (9) (10)
	FRONTAGE RD SEWER PROJECT TOTAL (Rounded to 1000)	--	\$1,991,000 (9) (10)

Notes:

- (1) ENR CCI: November 2008 = 8602
- (2) Costs are from the January 2009 Southland WWTF Master Plan.
- (3) Costs are escalated by 4 % per year to anticipated midpoint of construction (assumed January 2011).
- (4) The Frontage Rd Sewer Upgrade project includes the sewer main from Division St. to the influent pump station. The portion between the street and the influent pump station is currently included in the Southland WWTF Upgrades project scope of work, but may be moved to the Waterline Intertie Project for expedited construction.
- (5) The cost for this portion of Frontage Rd was estimated by prorating the cost opinion for the Frontage Road Sewer Upgrade (based on linear footage) to arrive at the 2008 Construction Cost Opinion. A 4% per year escalation was used to arrive at the 2011 midpoint of construction cost opinion.
- (6) Contingency is estimated at 30% of construction subtotal.
- (7) To be updated by CM Team, assumed to be 30% of construction subtotal minus the engineering fee.
- (8) Costs to be developed with EIR process
- (9) The Frontage Road Sewer Upgrade Project plans are being developed as part of the Waterline Intertie Project effort, but construction will be paid for using separate sewer funds, not supplemental water funds
- (10) Costs based on the 90% plans and specifications for Bid Package #2 of Waterline Intertie Project (October 2009)

TO: COMMITTEE MEMBERS
FROM: MICHAEL LEBRUN *MSL*
DATE: May 13, 2010

AGENDA ITEM

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MAY 17, 2010

**REVIEW DRAFT REVISED SOUTHLAND WWTF UPGRADE PROJECT
SITE PLAN AND COST ESTIMATE**

ITEM

Discuss proposed revised draft site plan and cost estimate for Southland WWTF upgrade project [Receive Report and Provide Policy Direction].

BACKGROUND

At the April 2010 Southland WWTF Upgrade Committee meeting, AECOM provided the status of the Southland WWTF Facility Master Plan Amendment including a draft revised site plan based on AECOM's latest analysis of plant flow and loading data. AECOM also provided a comparison of the Facility Master Plan flows to the revised recommended flows as well as the draft proposed phasing triggers.

Since the last presentation, AECOM has developed a revised cost estimate for Phase 1 of the plant upgrade project and adjusted some of the phasing of facilities.

RECOMMENDATION

Staff recommends that the Committee receive AECOM's presentation, ask questions as appropriate and direct staff to proceed with the development of a draft amendment to the Southland WWTF Facility Master Plan for subsequent Committee and Board review and approval.

ATTACHMENT

- May 2010 Draft Revised Southland WWTF Site Plan
- May 2010 Southland WWTF Phase 1 Upgrade Project Budget

Item	Description	Budgeted Amount	
		Jan 2009 Master Plan (1)(2)(3)	MP Amt #1 Apr 2010 Phase 1 Project (1)(3)
1	Frontage Road sewer upgrade (Southland to IPS)	\$366,000 (4) (5)	-- (11)
2	Influent pump station upgrade	\$670,900	\$571,600
3	Influent screening system	\$327,400	\$371,600
4	Grit removal system	\$402,700	\$284,100 (12)
5	Phase I Biolac system and Secondary Clarifier	\$3,877,500	\$3,671,300 (13)
6	Phase I Sludge lagoons	\$67,700	\$166,300 (14)
7	Phase I Sludge drying beds	\$1,160,700	\$992,300
8	Controls and Blower Building	<i>not included</i>	\$232,600 (15)
9	Non-Potable Plant Water and Irrigation Systems	<i>not included</i>	\$191,200 (16)
10	Site Piping		\$642,000 (17)
	Construction Subtotal	\$6,872,900	\$7,123,000
11	Contingency	\$2,061,870 (6)	\$1,780,750 (18)
12	Design-Phase Engineering	\$923,093	\$966,615 (19)
13	Construction Management	\$1,138,777 (7)	\$1,200,000 (20)
14	Environmental Mitigation	-- (8)	-- (8)
15	Environmental Monitoring	-- (8)	-- (8)
16	Permitting Fees	-- (8)	-- (8)
	WWTF PHASE 1 PROJECT TOTAL (Rounded to 1000)	\$10,997,000	\$11,071,000

A	Frontage Rd Sewer Upgrade Project (Division St to IPS at WWTF)	--	\$1,726,932 (9)(10)(11)
B	Frontage Rd Sewer Upgrade Project Contingency (15%)	--	\$259,040 (9)(10)
	FRONTAGE RD SEWER PROJECT TOTAL (Rounded to 1000)	--	\$1,986,000 (9)(10)

Notes:

- (1) ENR CCI: November 2008 = 8602; April 2010 = 8677
- (2) Costs are from the January 2009 Southland WWTF Master Plan.
- (3) Costs are escalated to anticipated midpoint of construction: 4% per year to 2011 for Jan 2009 MP, and 2% per year to 6/10/2011 for MP Amendment #1 Apr 2010.
- (4) The Frontage Rd Sewer Upgrade project includes the sewer main from Division St. to the influent pump station (IPS). The portion between the street and the IPS is currently included in the Southland WWTF Upgrades project scope of work, but may be moved to the Waterline Intertie Project for expedited construction.
- (5) The cost for this portion of Frontage Rd was estimated by prorating the cost opinion for the Frontage Road Sewer Upgrade (based on linear footage) to arrive at the 2008 Construction Cost Opinion.
- (6) Contingency is estimated at 30% of construction subtotal.
- (7) To be updated by CM Team, assumed to be 30% of construction subtotal minus the engineering fee.
- (8) Costs to be developed with EIR process
- (9) The Frontage Road Sewer Upgrade Project plans are being developed as part of the Waterline Intertie Project effort, but construction will be paid from separate sewer funds, not supplemental water funds
- (10) Costs based on the Draft Final plans and specifications for Bid Package #2 of Waterline Intertie Project (April 2010)
- (11) Cost for line item #1 is included in line item A, for the total Frontage Rd Sewer Upgrade Cost. It was previously reported as two sections, split at the WWTF property line.
- (12) Revised design includes deferring one of two grit removal systems until Phase 3.
- (13) Revised design requires earthwork to create smaller basins & install clarifier below-grade (1 in Phase 1 of 3 total).
- (14) The Jan 2009 MP design included sludge holding lagoons. MP Amendment #1 is including aerobic sludge digesters instead. This design utilizes the District's existing surface aerators, but requires earthwork to install berms and create smaller lagoons.
- (15) The Jan 2009 MP assumed the existing blower building would be reused and did not include a new controls building
- (16) Non-potable plant water and onsite irrigation water systems were not included in the Jan 2009 MP.
- (17) Major site piping was divided into a separate line item for MP Amendment #1. Previously the cost for site piping was included as a percentage of equipment or earthwork with other items.
- (18) Contingency is estimated at 25% of construction subtotal.
- (19) Additional design & permitting fee pending.
- (20) Construction management fee estimated to be approximately \$1.2M. It is assumed additional fees for permitting, engineering, or other services related to the project could be transferred from this line item.

TO: COMMITTEE MEMBERS
FROM: MICHAEL LEBRUN *ML*
DATE: May 13, 2010

AGENDA ITEM
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MAY 17, 2010

REVIEW FRONTAGE ROAD TRUNK SEWER CONSTRUCTION TIMELINE

ITEM

Review Frontage Road Trunk Sewer Construction Timeline [Receive Report and Provide Policy Direction].

BACKGROUND

The Frontage Road Trunk Sewer Project involves the replacement of approximately 4300 linear feet of sewer line in Frontage Road between Division Street and the Southland WWTF influent pump station.

Designing the Frontage Road Trunk Sewer concurrently with the Waterline Intertie Project (WIP) waterline in Frontage was necessary to ensure that both lines could be installed within the limited available right-of-way. In addition, the WIP project was anticipated to be under construction before the Southland WWTF Upgrade Project so it also made sense to include the Frontage Road Trunk Sewer in the WIP project since the new trunk sewer needs to be built before the WIP waterline can be constructed as designed. AECOM has submitted the draft final plans for the Frontage Road Trunk Sewer that is currently part of the Waterline Intertie Project Bid Package 2.

The WIP construction schedule has been delayed due to numerous factors. The Frontage Road Trunk Sewer can be built before or concurrently with the Southland WWTF Upgrade but not after the plant upgrade. Based on the current WIP schedule and the remaining obstacles that need to be overcome, the timeline for construction of the WIP is uncertain.

The Frontage Road Trunk Sewer could be constructed separate from the WIP in early 2011 as the design is almost completed and the project is fully funded in the FY 2010-2011 proposed budget. This would ensure that construction of the Frontage Road Trunk Sewer would not impact the schedule of the Southland WWTF Upgrade Project. In addition, the current trunk sewer is in poor condition and is surcharging at high flow conditions. Replacing the existing line with the new sewer line would help avoid the need for any emergency repairs to the existing sewer line. Staff anticipates that any potential savings in constructing the trunk sewer as part of the WIP project might be offset by being able to bid the trunk sewer as early as December of this year to take advantage of the favorable bid climate.

RECOMMENDATION

Staff recommends that the Committee receive staff's presentation, ask questions as appropriate and direct staff to proceed with development of a plan and schedule, for subsequent Committee and Board review and approval, to bid and construct the Frontage Road Trunk Sewer Project separate from the WIP.

ATTACHMENT

- NONE

TO: COMMITTEE MEMBERS
FROM: MICHAEL LEBRUN *MSL*
DATE: MAY 13, 2010



SET NEXT COMMITTEE MEETING

ITEM

Set next committee meeting [Set Date/Time].

BACKGROUND

The Committee usually meets on the Monday preceding the first Board meeting of the month as necessary.

RECOMMENDATION

Staff recommends that the Committee tentatively set a meeting at 2 pm on Monday, June 7, 2010. If staff does not have policy issues to bring to the committee at that time, the meeting can be deferred to the following month with Committee member concurrence.

ATTACHMENT- NONE

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