APPENDIX E Cost Estimate Details

WOODBURN, OR PIPELINE IMPROVEMENTS		PR	DATE:	3/25/2009 367677			
CLASS 5 COST OPINION	ESTIMATE BY:			D Hedglin			
Description	Qty	Unit	Total Unit Cost	Total Cost			
I-5 Forcemain				<u> </u>			
12" Forcemain Parallel to Existing DIRECT SUBTOTAL	6,319	LF	\$251	\$1,586,118			
CONTINGENCIES	30.0%			\$1,586,118 \$475,835	-		
CONSTRUCTION TOTAL (ROUNDED)	30.076			\$2,062,000	1		
SALES TAX	0.0%			\$0	1		
CONSTRUCTION TOTAL WITH SALES TAX (ROUNDED)	01070			\$2,062,000	1		
ENGINEERING, LEGAL/ADMIN, COORDINATION	30.0%			\$618,600	1		
CONSTRUCTION ENGINEERING	15.0%			\$309,300]		
ENVIRONMENTAL MITIGATION	5.0%			\$103,100]		
EASEMENTS & ROW ACQUISITION	0.0%			\$0			
INDIRECT COST TOTAL (ROUNDED)				\$1,031,000			
PROJECT TOTAL (ROUNDED)				\$ 3,093,000	\$	489	\$/LI
Young St. Pipeline Project			·				
Gravity Pipeline - 18" with Removal	1,838	LF	\$469	\$861,174			
Manhole - 48" diameter x 15' deep	6	EA	\$7,839		300' spacing		
	00.00/		+	\$909,199	4		
	30.0%			\$272,760	4		
CONSTRUCTION TOTAL (ROUNDED) SALES TAX	0.0%			\$1,182,000 \$0	-		
CONSTRUCTION TOTAL WITH SALES TAX (ROUNDED)	0.0 /6			\$1,182,000	1		
ENGINEERING, LEGAL/ADMIN, COORDINATION	30.0%		1	\$354,600	1		
CONSTRUCTION ENGINEERING	15.0%			\$177,300	1		
ENVIRONMENTAL MITIGATION	5.0%			\$59,100	1		
EASEMENTS & ROW ACQUISITION	0.0%			\$0	1		
INDIRECT COST TOTAL (ROUNDED)				\$591,000	1		
PROJECT TOTAL (ROUNDED)				\$ 1,773,000	\$	965	\$/LI
Front St. Pipeline Project							
Gravity Pipeline - 18" with Removal	1,077	LF	\$469	\$504,616]		
Manhole - 48" diameter x 15' deep	4	EA	\$7,839	\$28,141			
DIRECT SUBTOTAL				\$532,757			
CONTINGENCIES	30.0%			\$159,827	4		
CONSTRUCTION TOTAL (ROUNDED)	0.00/		-	\$693,000	4		
	0.0%			\$0	4		
CONSTRUCTION TOTAL WITH SALES TAX (ROUNDED) ENGINEERING, LEGAL/ADMIN, COORDINATION	30.0%		1	\$693,000 \$207,900	4		
CONSTRUCTION ENGINEERING	15.0%			\$103,950	1		
ENVIRONMENTAL MITIGATION	5.0%		1	\$34,650	1		
EASEMENTS & ROW ACQUISITION	0.0%			\$0	1		
INDIRECT COST TOTAL (ROUNDED)			1	\$347,000	1		
PROJECT TOTAL (ROUNDED)				\$ 1,040,000		966	\$/LF
Mill Creek Interceptor					1		
Gravity Pipeline - 18" with Removal	2,633	LF	\$469	\$1,233,662	1		
Gravity Pipeline - 24" with Removal	594	LF	\$522	\$310,364			
Manhole - 48" diameter x 15' deep	11	EA	\$7,839	\$84,318]		
DIRECT SUBTOTAL				\$1,628,343			
CONTINGENCIES	30.0%			\$488,503]		
CONSTRUCTION TOTAL (ROUNDED)				\$2,117,000			
SALES TAX	0.0%			\$0	4		
CONSTRUCTION TOTAL WITH SALES TAX (ROUNDED)			-	\$2,117,000	4		
	30.0%			\$635,100	4		
CONSTRUCTION ENGINEERING ENVIRONMENTAL MITIGATION	15.0% 5.0%			\$317,550	-		
EASEMENTS & ROW ACQUISITION	0.0%		+	<u>\$105,850</u> \$0	4		
INDIRECT COST TOTAL (ROUNDED)				\$1,059,000	4		
PROJECT TOTAL (ROUNDED)				\$ 3,176,000		08/	\$/LI
Progress Way Pipeline	l			÷ 0,170,000	· *	504	φ, ∟Γ
Gravity Pipeline - 12" with Removal	980	LF	\$401	\$393,032	1		
Gravity Pipeline - 18" with Removal	566	LF	\$469	\$265,193			
Manhole - 48" diameter x 15' deep	5	EA	\$7,839	\$40,395			
DIRECT SUBTOTAL	Ű		÷:,000	\$698,620			
			<u> </u>	+-30,020	1		

/LF

LF

LF

LF

			Total		
Description	Qty	Unit	Unit Cost	Total Cost	
CONTINGENCIES	30.0%	0		\$209,586	
CONSTRUCTION TOTAL (ROUNDED)	001070			\$908,000	
SALES TAX	0.0%			\$0	
CONSTRUCTION TOTAL WITH SALES TAX (ROUNDED)				\$908,000	
ENGINEERING, LEGAL/ADMIN, COORDINATION	30.0%			\$272,400	
CONSTRUCTION ENGINEERING	15.0%			\$136,200	
ENVIRONMENTAL MITIGATION	5.0%			\$45,400	
EASEMENTS & ROW ACQUISITION	0.0%			\$0	
INDIRECT COST TOTAL (ROUNDED)				\$454,000	
					Composite Cost
PROJECT TOTAL (ROUNDED)				\$ 1,362,000	\$ 881 \$/LF
Hayes St Pipeline					
Gravity Pipeline - 12" with Removal	891	LF	\$401	\$357,338	
Gravity Pipeline - 15" with Removal	1,456	LF	\$427	\$622,269	
Manhole - 48" diameter x 15' deep	8	EA	\$7,839	\$61,324	
DIRECT SUBTOTAL				\$1,040,932	
CONTINGENCIES	30.0%			\$312,280	
CONSTRUCTION TOTAL (ROUNDED)				\$1,353,000	
SALES TAX	0.0%			\$0	
CONSTRUCTION TOTAL WITH SALES TAX (ROUNDED)				\$1,353,000	
ENGINEERING, LEGAL/ADMIN, COORDINATION	30.0%			\$405,900	
CONSTRUCTION ENGINEERING	15.0%			\$202,950	
ENVIRONMENTAL MITIGATION	5.0%			\$67,650	
EASEMENTS & ROW ACQUISITION	0.0%			\$0	
INDIRECT COST TOTAL (ROUNDED)				\$677,000	
					Composite Cost
PROJECT TOTAL (ROUNDED)				\$ 2,030,000	\$ 865 \$/LF
Brown St Pipeline Project				. , ,	
Gravity Pipeline - 12" with Removal	1,053	LF	\$401	\$422,309	
Manhole - 48" diameter x 15' deep	4	EA	\$7,839	\$27,514	
DIRECT SUBTOTAL		2/1	¢1,000	\$449,823	
CONTINGENCIES	30.0%			\$134,947	
CONSTRUCTION TOTAL (ROUNDED)				\$585,000	
SALES TAX	9.0%			\$52,650	
CONSTRUCTION TOTAL WITH SALES TAX (ROUNDED)				\$638,000	
ENGINEERING, LEGAL/ADMIN, COORDINATION	30.0%			\$175,500	
CONSTRUCTION ENGINEERING	15.0%			\$87,750	
ENVIRONMENTAL MITIGATION	5.0%			\$29,250	
EASEMENTS & ROW ACQUISITION	0.0%			\$0	
INDIRECT COST TOTAL (ROUNDED)				\$293,000	
PROJECT TOTAL (ROUNDED)				\$ 931,000	\$ 884 \$/LF
Sanitary Sewer Service to North Industrial Area					
Gravity Pipeline - 8" New Alignment	2,581	LF	\$136	\$352,265	
Gravity Pipeline - 18" New Alignment	3,183	LF	\$236		
Gravity Pipeline - 24" New Alignment	4,761	LF	\$272	\$1,297,023	
Manhole - 48" diameter x 15' deep	35	EA	\$7,839		
DIRECT SUBTOTAL			+ /	\$2,676,066	
CONTINGENCIES	30.0%			\$802,820	
CONSTRUCTION TOTAL (ROUNDED)				\$3,479,000	
SALES TAX	0.0%			\$0	
CONSTRUCTION TOTAL WITH SALES TAX (ROUNDED)				\$3,479,000	
ENGINEERING, LEGAL/ADMIN, COORDINATION	30.0%			\$1,043,700	
CONSTRUCTION ENGINEERING	15.0%			\$521,850	
ENVIRONMENTAL MITIGATION	5.0%			\$173,950	
EASEMENTS & ROW ACQUISITION	0.0%			\$0	
INDIRECT COST TOTAL (ROUNDED)			-	\$1,740,000	
				* / -/	Composite Cost
PROJECT TOTAL (ROUNDED)				\$ 5,219,000	\$ 496 \$/LF
Sanitary Sewer Service to SW Industrial Area				, 0, 2 10,000	-, -,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,
Gravity Pipeline - 8" New Alignment	889	LF	\$136	\$121,385	
Gravity Pipeline - 12" New Alignment	9,139		\$136		
Gravity Pipeline - 12 New Alignment	9,139 7,198		\$185		
Gravity Pipeline - 24" New Alignment	3,431		\$230 \$272	\$934,629	
Manhole - 48" diameter x 15' deep	5,431 69	EA	7 ,839		
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Description	01	11	Total	Tatal Oraci			
Description	Qty	Unit	Unit Cost	Total Cost			
DIRECT SUBTOTAL	00.00/		-	\$4,985,162			
	30.0%			\$1,495,549			
CONSTRUCTION TOTAL (ROUNDED)	0.00/		-	\$6,481,000			
	0.0%		-	\$0			
CONSTRUCTION TOTAL WITH SALES TAX (ROUNDED)			-	\$6,481,000			
ENGINEERING, LEGAL/ADMIN, COORDINATION	30.0%			\$1,944,300			
	15.0%			\$972,150			
ENVIRONMENTAL MITIGATION	5.0%			\$324,050			
EASEMENTS & ROW ACQUISITION	0.0%			\$0			
INDIRECT COST TOTAL (ROUNDED)				\$3,241,000			
					Composi	te Cost	
PROJECT TOTAL (ROUNDED)				\$ 9,722,000	\$	471	\$/LF
New Areas Outside Current UBG							
Gravity Pipeline - 8" New Alignment	9,546	LF	\$136	\$1,302,882			
Gravity Pipeline - 10" New Alignment	26,382	LF	\$171	\$4,506,960			
Gravity Pipeline - 12" New Alignment	9,080	LF	\$185	\$1,678,400			
Gravity Pipeline - 15" New Alignment	6,836	LF	\$205	\$1,399,464			
Gravity Pipeline - 18" New Alignment	13,795	LF	\$236	\$3,258,531			
Gravity Pipeline - 24" New Alignment	12,400	LF	\$272	\$3,377,754			
Manhole - 48" diameter x 15' deep	260	EA	\$7,839	\$2,039,040			
DIRECT SUBTOTAL				\$17,563,030			
CONTINGENCIES	30.0%			\$5,268,909			
CONSTRUCTION TOTAL (ROUNDED)				\$22,832,000			
SALES TAX	0.0%			\$0			
CONSTRUCTION TOTAL WITH SALES TAX (ROUNDED)				\$22,832,000			
ENGINEERING, LEGAL/ADMIN, COORDINATION	30.0%			\$6,849,600			
CONSTRUCTION ENGINEERING	15.0%			\$3,424,800			
ENVIRONMENTAL MITIGATION	5.0%			\$1,141,600			
EASEMENTS & ROW ACQUISITION	0.0%			\$0			
INDIRECT COST TOTAL (ROUNDED)				\$11,416,000			
					Composi	te Cost	
PROJECT TOTAL (ROUNDED)				\$ 34,248,000	\$	439	\$/LF

ASSUMPTIONS:

Gravity Lines:

Easement & ROW acquisitions are not included.

Groundwater is not an issue.

Eleven feet of cover.

Imported trench backfill at 50% for new pipeline alignments.

Hydroseed restoration for new pipeline alignments.

Imported trench backfill for pipeline replacements.

Full width street overlay for pipeline replacements.

PVC pipe material.

Future escalation costs are excluded.

No potential hazmat costs are included.

Forcemains:

Easement & ROW acquisitions are not included. Groundwater is not an issue. Three feet of cover. Imported trench backfill Full width street overlay. PVC pipe material.

No future escalation.

Future escalation costs are excluded.

No potential hazmat costs are included.

NOTE: The above cost opinions are in March 2009 dollars. They do not include future escalation.

Financing costs, O&M costs, and potential hazardous material mitigation costs are also not included.

The cost opinion shown has been prepared for guidance in project evaluation from the information available at the time of preparation. The final costs of the project will depend on actual labor and material costs, actual site conditions, actual site productivity, competitive market conditions, final project scope, final project schedule and other variable factors. As a result, the final project costs will vary from those presented above. Because of these factors, funding needs must be carefully reviewed prior to making specific financial decisions or establishing final budgets.

WOODBURN, OR PUMP STATION IMPROVEMENTS CLASS 5 COST OPINION

DATE: 3/25/2009 PROJECT NO.: 367677 ESTIMATE BY: D Hedglin

				Direct
LS#	Description	Qty	Unit	Total Cost
	Mill Creek Phase 1	1	LS	\$ 121,000
	Mill Creek Phase 2	1	LS	\$ 2,604,000
	Stevens Pump Station	1	LS	\$ 990,000
	I-5 Pump Stations	1	LS	\$ 1,307,000

DIRECT SUBTOTAL		\$ 5,022,000
CONTINGENCIES	30.0%	\$1,506,600
CONSTRUCTION TOTAL (ROUNDED)		\$6,529,000
SALES TAX	0.0%	\$0
CONSTRUCTION TOTAL WITH SALES TAX (ROUNDED)		\$6,529,000
ENGINEERING, LEGAL/ADMIN, COORDINATION	30.0%	\$1,958,700
CONSTRUCTION ENGINEERING	15.0%	\$979,350
ENVIRONMENTAL MITIGATION	5.0%	\$326,450
EASEMENTS & ROW ACQUISITION	0.0%	\$0
INDIRECT COST TOTAL (ROUNDED)		\$3,265,000
PROJECT TOTAL (ROUNDED)		\$ 9,794,000

ASSUMPTIONS:

Easement & ROW acquisitions are not included. Groundwater is not an issue. Emergency generators are not included. No future escalation. Future escalation costs are excluded. No potential hazmat costs are included.

NOTE: The above cost opinions are in March 2009 dollars. They do not include future escalation. Financing costs, O&M costs, and potential hazardous material mitigation costs are also not included. The cost opinion shown has been prepared for guidance in project evaluation from the information available at the time of preparation. The final costs of the project will depend on actual labor and material costs, actual site conditions, actual site productivity, competitive market conditions, final project scope, final project schedule and other variable factors. As a result, the final project costs will vary from those presented above. Because of these factors, funding needs must be carefully reviewed prior to making specific financial decisions or establishing final budgets.