



El Dorado Irrigation District

FIVE-YEAR CAPITAL IMPROVEMENT PLAN

2011-2015

Approved November 8, 2010

**EL DORADO IRRIGATION DISTRICT
FIVE-YEAR CAPITAL IMPROVEMENT PLAN
2010-2014**

	2010 PLANNED	2011 PLANNED	2012 PLANNED	2013 PLANNED	2014 PLANNED	FIVE-YEAR PLAN TOTAL
FERC	\$1,784,017	\$2,281,836	\$975,001	\$661,201	\$1,062,437	\$6,764,492
Water	\$13,298,339	\$3,280,000	\$2,135,750	\$11,422,665	\$30,799,340	\$60,936,094
Wastewater	\$7,269,824	\$3,690,000	\$1,215,000	\$1,225,000	\$1,525,000	\$14,924,824
Recycled Water	\$3,120,000	\$0	\$0	\$1,500,000	\$1,600,000	\$6,220,000
Hydroelectric	\$5,853,655	\$7,825,339	\$9,635,338	\$8,910,000	\$7,300,000	\$39,524,331
Recreation	\$260,500	\$195,000	\$245,000	\$0	\$0	\$700,500
General District	\$3,178,715	\$1,980,000	\$2,061,000	\$6,896,000	\$9,329,000	\$23,444,715
TOTAL	\$34,765,050	\$19,252,175	\$16,267,089	\$30,614,866	\$51,615,777	\$152,514,956

**EL DORADO IRRIGATION DISTRICT
FIVE-YEAR CAPITAL IMPROVEMENT PLAN
2011-2015**

	2011 PLANNED	2012 PLANNED	2013 PLANNED	2014 PLANNED	2015 PLANNED	FIVE-YEAR PLAN TOTAL
FERC	\$1,860,836	\$1,599,001	\$765,201	\$816,437	\$2,717,710	\$7,759,185
Water	\$5,130,000	\$4,750,750	\$6,153,325	\$30,629,340	\$26,869,340	\$73,532,755
Wastewater	\$5,576,000	\$1,267,500	\$1,247,500	\$1,777,500	\$1,077,500	\$10,946,000
Recycled Water	\$555,000	\$0	\$100,000	\$1,500,000	\$0	\$2,155,000
Hydroelectric	\$4,170,000	\$10,635,000	\$11,100,000	\$4,500,000	\$6,050,000	\$36,455,000
Recreation	\$318,466	\$130,000	\$10,000	\$10,000	\$10,000	\$478,466
General District	\$2,218,500	\$1,315,000	\$3,640,000	\$4,139,000	\$100,000	\$11,412,500
TOTAL	\$19,828,802	\$19,697,251	\$23,016,026	\$43,372,277	\$36,824,550	\$142,738,906

**2011 - 2015 Capital Improvement Plan
FERC Projects**

PROJECT NO.	PROJECT DESCRIPTION	PROG	PM	Priority	2011 Planned	2012 Planned	2013 Planned	2014 Planned	2015 Planned	2011-2015 Total
06021H	FERC C37.8 WATER TEMP	FERC	Deason	1	50,000	50,000	50,000	50,000	50,000	250,000
06022H	FERC C38.4A CAPLES FEASIBILITY	FERC	Deason	1	60,000	0	0	0	0	60,000
06077H	FERC:C37.6 GEOMORPH SITE	FERC	Deason	1	10,000	0	0	0	0	10,000
06086H	FERC:C33 LAKE ALOHA TROUT	FERC	Deason	1	12,000	12,000	12,000	12,000	12,000	60,000
06087H	FERC:C37.1 FISH MONITORNG	FERC	Deason	1	100,000	120,000	20,000	0	0	240,000
06088H	FERC:C37.2 MACROINVERTEB	FERC	Deason	1	55,000	75,000	20,000	0	0	150,000
06089H	FERC:C37.3 AMPHIBIAN MON	FERC	Deason	1	102,000	37,000	17,000	17,000	17,000	190,000
06090H	FERC:C37.4 RIPARIAN SPEC	FERC	Deason	1	25,000	10,000	0	0	0	35,000
06091H	FERC:C37.5 RIPARN RECRUIT	FERC	Deason	1	10,000	5,000	0	0	0	15,000
06092H	FERC:C37.7 GEOMORPH EVAL	FERC	Deason	1	100,000	25,000	0	0	0	125,000
06096H	FERC:C56 HERITAGE RSRCE	FERC	Deason	1	50,000	50,000	50,000	50,000	50,000	250,000
07003H	FERC C37.9 WATER QUALITY	FERC	Deason	1	10,000	100,000	10,000	100,000	10,000	230,000
07010H	FERC C15 PESTICIDE USE	FERC	Deason	1	100,000	100,000	100,000	100,000	100,000	500,000
07011H	FERC C38 ADAPTIVE MGMT	FERC	Deason	1	100,000	100,000	100,000	100,000	100,000	500,000
08025H	FERC C44 Noxious Weed Implementation	FERC	Deason	1	30,000	30,000	30,000	30,000	30,000	150,000
06079H	FERC:C50.5 HWY 88 KIOSK	FERC	Downey	1	25,000	0	0	0	0	25,000
06080H	FERC:C50.6 MARTIN MEADOW	FERC	Downey	1	25,000	0	0	0	0	25,000
06097H	FERC C59 Facility Management Plan	FERC	Downey	1	80,000	25,000	100,000	0	0	205,000
07030H	FERC C57 Transportation Management Plan	FERC	Downey	1	25,000	0	0	0	0	25,000
06019H	FERC C35 OYSTER CREEK	FERC	Eymann	1	90,000	275,000	0	0	0	365,000
06020H	FERC C36 ESMERALDA	FERC	Eymann	1	290,000	5,000	0	0	0	295,000
06076H	FERC:C38.4B CAPLES STABIL	FERC	Eymann	1	75,000	375,000	0	0	0	450,000
06073H	FERC:C61 LAND EXCHANGE	FERC	Hilton	1	60,000	0	0	0	0	60,000
10007	FERC C51.2 RM Caples Boat Launch	FERC	Jaggers	1	35,000	35,000	35,000	35,000	35,000	175,000
06098H	FERC:C46-9 RECREATION RSC	FERC	Jaggers	1	25,000	25,000	25,000	25,000	25,000	125,000
07005H	FERC C51.3 RM ECHO TRAIL	FERC	Jaggers	1	5,000	5,000	5,000	5,000	5,000	25,000
07006H	FERC C51.5&C51.7 RM USFS	FERC	Jaggers	1	38,836	40,001	41,201	42,437	43,710	206,185
07007H	FERC C51.8 SILVER LAKE BL	FERC	Jaggers	1	70,000	35,000	35,000	35,000	35,000	210,000
07009H	FERC C51.8 RM WOODS CREEK	FERC	Jaggers	1	5,000	5,000	5,000	5,000	5,000	25,000
07035H	FERC C51.8 RM Silver Lake CG West	FERC	Jaggers	1	60,000	60,000	60,000	60,000	60,000	300,000
06024H	FERC C40 Gaging Facility	FERC	Mackay	1	80,000	0	0	0	0	80,000
06025H	FERC C41 Canal Release point	FERC	Mackay	1	20,000	0	0	0	0	20,000
06028H	FERC C65 MBT Groundwater	FERC	Megerdigian	1	8,000	0	0	0	0	8,000
06029H	FERC Project Maps	FERC	Megerdigian	1	5,000	0	0	0	0	5,000
06023H	FERC C39 FISH SCREENS	FERC	Noel	1	25,000	0	0	0	0	25,000
06078H	FERC:C50.3 CAPLES DAM PRK Lot Improvements	FERC	Noel	1	0	0	0	50,000	50,000	100,000
06081H	FERC:C50.8 Pacific Crest Trail Crossing	FERC	Noel	1	0	0	0	0	40,000	40,000
06082H	FERC:C50.1 SILVER LAKE EAST CG FS Upgrade	FERC	Noel	1	0	0	50,000	50,000	2,000,000	2,100,000
07008H	FERC C51.8 SILVER LAKE CG West Upgrade	FERC	Noel	1	0	0	0	50,000	50,000	100,000
Total FERC Projects					1,860,836	1,599,001	765,201	816,437	2,717,710	7,759,185

**2011 - 2015 Capital Improvement Plan
Water Projects**

PROJECT NO.	PROJECT DESCRIPTION	PROG	PM	Priority	2011 Planned	2012 Planned	2013 Planned	2014 Planned	2015 Planned	2011-2015 Total
NEW	Silva Valley Interchange (DOT)	WA	Brink	1	450,000	*	*	*	*	450,000
00006E	Rediversion of Ditch Water Rights	WA	Cumpston	1	100,000	20,000	100,000	100,000	0	320,000
06004G	SMUD / El Dorado Agreement Water Rights	WA	Cumpston	1	600,000	600,000	250,000	250,000	250,000	1,950,000
89069E	Water Rights for 17,000 Acre Feet	WA	Cumpston	1	50,000	0	0	0	0	50,000
07033E	Sly Park Dam Evaluation	WA	Eymann	1	25,000	300,000	*	0	0	325,000
09006E	Blakely Reservoir Improvements	WA	Eymann	1	130,000	250,000	0	0	0	380,000
NEW	Summerfield Ditch	WA	Megerdigian	1	100,000	0	0	0	0	100,000
NEW	Main Ditch Assessment - Forebay to Res 1	WA	Megerdigian	1	50,000	100,000	*	*	0	150,000
NEW	Water Rights Optimization	WA	Megerdigian	1	100,000	0	0	0	0	100,000
05002E	EDHWWTP Expansion to 26 mgd	WA	Noel	1	100,000	0	0	0	0	100,000
06005E	Jenkinson Lake Intake Protective Measures	WA	Noel	1	0	30,000	120,000	0	0	150,000
08029E	GHI Relocation at Tennessee Creek	WA	Noel	1	410,000	50,000	0	0	0	460,000
04003E	Folsom Lake Intake and Pump Station	WA	Rice	1	500,000	1,000,000	500,000	19,000,000	19,000,000	40,000,000
04004E	Monte Vista Tank Replacement	WA	Rice	1	50,000	200,000	983,325	0	0	1,233,325
NEW	DOT Construction Projects - Water	WA	Rice	1	100,000	100,000	100,000	120,000	100,000	520,000
NEW	Reservoir A WTP Chlorine conversion	WA	Rice	1	50,000	150,000	800,000	0	0	1,000,000
NEW	Reservoir 1 WTP Chlorine / Backwash	WA	Rice	1	595,000	250,000	0	0	0	845,000
NEW	Fair Lane Water Line Relocation	WA	Rice	1	140,000	0	0	0	0	140,000
NEW	Hwy 49 / Patterson Rd PRS Relocation (DOT)	WA	Rice	1	200,000	0	0	0	0	200,000
SDWL04	Reservoir Floating Cover Replacement Prog	WA	Rice	1	100,000	100,000	100,000	*	*	300,000
NEW	Critical Asset Security System (HSGP Grant Reimb)	WA	Strahan	1	50,000	0	0	0	0	50,000
NEW	Ditch Water Rights - SCADA	WA	Strahan	1	40,000	0	0	0	0	40,000
06010E	Integrated Water Resources Plan	WA	Megerdigian	2	50,000	0	0	0	0	50,000
10009	2010 Waterline Replacement Program	WA	Rice	2	130,000	130,000	170,000	130,000	130,000	690,000
03006E	Sly Park Intertie Lining	WA	Rice	2	0	0	100,000	3,000,000	0	3,100,000
06074E	Folsom Lake Raw Water Transmission Main	WA	Rice	2	0	0	100,000	3,000,000	1,500,000	4,600,000
08022E	Pump Station Upgrade Program	WA	Rice	2	50,000	150,000	120,000	120,000	120,000	560,000
NEW	Water Tank Recoating Program	WA	Rice	2	75,000	200,000	200,000	200,000	200,000	875,000
10015	Water System Upgrades	WA	Strahan	2	50,000	100,000	100,000	50,000	0	300,000
08021E	PRS Replacement Program	WA	Strahan	2	260,000	40,000	40,000	40,000	0	380,000
NEW	Reservoir A Process Improvements	WA	Strahan	2	150,000	300,000	300,000	50,000	0	800,000
NEW	Corrosion Control Technologies Bench Study	WA	Strahan	2	150,000	0	0	0	0	150,000
04009E	Oakridge Pump Station	WA	Sullivan	2	0	0	50,000	3,569,340	3,569,340	7,188,680
06069E	Outingdale WTP	WA	Sullivan	2	75,000	0	*	*	0	75,000
06075E	Serrano Transmission Main	WA	Sullivan	2	0	0	0	0	2,000,000	2,000,000
09007E	Update Design and Construction Standards	WA	Sullivan	2	50,000	0	0	0	0	50,000
NEW	Strawberry WTP Evaluation	WA	Sullivan	2	100,000	50,000	0	0	0	150,000
NEW	Ridgeview Tank No. 2	WA	Sullivan	2	50,000	380,750	1,920,000	0	0	2,350,750
04008E	Hwy 49 Intertie Improvements	WA	Sullivan	2	0	50,000	100,000	1,000,000	0	1,150,000
NEW	Main Ditch Remediation - Reservoir 1 to Blakely Reservoir	WA	Megerdigian	3	0	200,000	*	*	*	200,000
Total Water Projects					5,130,000	4,750,750	6,153,325	30,629,340	26,869,340	73,532,755

2011 - 2015 Capital Improvement Plan Wastewater Projects

PROJECT NO.	PROJECT DESCRIPTION	PROG	PM	Priority	2011 Planned	2012 Planned	2013 Planned	2014 Planned	2015 Planned	2011-2015 Total
01004E	DCWWTP Crossing	WW	Brink	1	200,000	2,500	2,500	2,500	2,500	210,000
08008E	DOT Construction Projects - Wastewater	WW	Brink	1	100,000	100,000	100,000	100,000	0	400,000
06055E	DC/ML Collection System Corrective Action Plan	WW	Sullivan	1	75,000	75,000	75,000	75,000	75,000	375,000
06056E	EDH Collection System Corrective Action Plan	WW	Sullivan	1	75,000	75,000	75,000	75,000	75,000	375,000
07017E	Camino Heights Permit	WW	Sullivan	1	37,000	0	0	0	0	37,000
NEW	Generator Replacement Program	WW	Sullivan	1	150,000	75,000	75,000	75,000	75,000	450,000
NEW	EDHWWTP Filter Covers	WW	Sullivan	1	120,000	0	0	0	0	120,000
06062E	EDHWWTP NPDES Permit Process	WW	Wells	1	250,000	50,000	0	0	0	300,000
07029E	DCWWTP NPDES Permit Process	WW	Wells	1	175,000	40,000	20,000	0	0	235,000
NEW	Motherlode Forcemain Flow Monitoring and Modeling	WW	Wells	1	75,000	0	0	0	0	75,000
10010	Lift Station Upgrades	WW	Brink	2	2,200,000	850,000	850,000	850,000	850,000	5,600,000
08009E	Motherlode Forcemain Repairs Phase IIB	WW	Brink	2	1,200,000	0	0	0	0	1,200,000
NEW	2011 DCWWTP Regulatory Compliance	WW	Brink	2	110,000	0	0	0	0	110,000
NEW	Bass Lake Fencing	WW	Caulfield	2	120,000	0	0	0	0	120,000
09015E	Yates Lift Station Upgrades	WW	Mackay	2	46,000	0	0	0	0	46,000
10016	Coach Lane Sewer Line	WW	Sullivan	2	228,000	0	0	0	0	228,000
10017	Bridlewood Lift Station Upgrades	WW	Sullivan	2	95,000	0	0	0	0	95,000
10018	Rancho Ponderosa Decommissioning	WW	Sullivan	2	150,000	0	0	0	0	150,000
08007E	Wastewater Master Plan and SSMP	WW	Wells	2	100,000	0	0	0	0	100,000
NEW	DCWWTP Solids Processing Analysis	WW	Wells	2	70,000	0	0	0	0	70,000
04013E	DCWWTP Maintenance Building	WW	Sullivan	3	0	0	50,000	600,000	0	650,000
Total Wastewater Projects					5,576,000	1,267,500	1,247,500	1,777,500	1,077,500	10,946,000

Recycled Water Projects

PROJECT NO.	PROJECT DESCRIPTION	PROG	PM	Priority	2011 Planned	2012 Planned	2013 Planned	2014 Planned	2015 Planned	2011-2015 Total
10011	Recycled Water System Improvements - Model	RW	Brink	1	120,000	0	0	0	0	120,000
05007E	800 Tank & Pipeline	RW	Brink	1	150,000	0	0	0	0	150,000
05008E	960 Tank Replacement	RW	Brink	1	150,000	0	0	0	0	150,000
07034E	Seasonal Storage BODR / EIR	RW	Brink	2	120,000	0	0	0	0	120,000
08012E	Seasonal Storage Design	RW	Brink	2	0	0	100,000	1,500,000	0	1,600,000
NEW	Recycled Water Tank Inspection / Recoating Program	RW	Rice	2	15,000	0	0	0	0	15,000
Total Recycled Water Projects					555,000	0	100,000	1,500,000	0	2,155,000

2011 - 2015 Capital Improvement Plan Hydroelectric Projects

PROJECT NO.	PROJECT DESCRIPTION	PROG	PM	Priority	2011 Planned	2012 Planned	2013 Planned	2014 Planned	2015 Planned	2011-2015 Total
08005H	Spillway 47C	HY	Brink	1	400,000	2,000,000	0	0	0	2,400,000
03011H	Forebay Dredging/Upgrades	HY	Eymann	1	400,000	400,000	*	*	*	800,000
04005H	Powerhouse Upgrade	HY	Eymann	1	100,000	50,000	0	0	0	150,000
07013H	Echo Lake Dams Evaluations	HY	Eymann	1	100,000	*	*	0	0	100,000
NEW	Lake Aloha Dam Regulatory Improvements	HY	Eymann	1	40,000	210,000	0	0	0	250,000
NEW	Silver Lake Dam Regulatory Improvements	HY	Eymann	1	100,000	140,000	1,000,000	*	0	1,240,000
NEW	Caples Lake Dams Regulatory Improvements	HY	Eymann	1	110,000	50,000	0	0	0	160,000
NEW	El Dorado Diversion Dam Upgrades	HY	Eymann	1	40,000	810,000	0	0	0	850,000
NEW	Echo Conduit Replacement	HY	Eymann	1	160,000	75,000	3,500,000	*	0	3,735,000
NEW	Flume 52A Replacement	HY	Brink	2	0	0	0	0	200,000	200,000
06030H	Bridge Replacement at Camp 2	HY	Eymann	2	50,000	650,000	*	*	0	700,000
08013H	El Dorado County Hydroelectric Development Plan	HY	Megerdigian	2	70,000	0	0	0	0	70,000
07032H	Camp 5 Improvements	HY	Noel	2	0	0	200,000	1,800,000	0	2,000,000
08002H	Flume 9 Replacement	HY	Noel	2	100,000	0	0	0	0	100,000
08003H	Flume 41 Replacement	HY	Noel	2	800,000	3,550,000	150,000	0	0	4,500,000
08004H	Flume 46A and 47 Replacement	HY	Noel	2	100,000	0	0	600,000	750,000	1,450,000
NEW	Canals & Flumes Upgrade	HY	Noel	2	350,000	200,000	500,000	200,000	200,000	1,450,000
NEW	Flume 3 Replacement	HY	Noel	2	0	700,000	0	0	0	700,000
NEW	Flume 42-43 Replacement	HY	Noel	2	0	0	0	0	200,000	200,000
NEW	Flume 39-40 Replacement	HY	Noel	2	1,100,000	1,650,000	0	0	0	2,750,000
NEW	Flume 48 Replacement	HY	Noel	2	0	0	0	0	200,000	200,000
NEW	Flume 44 Replacement	HY	Noel	2	0	0	200,000	200,000	1,800,000	2,200,000
NEW	Flume 4 Replacement	HY	Noel	2	0	0	0	200,000	2,700,000	2,900,000
NEW	Flume 45 Replacement	HY	Noel	2	150,000	0	5,400,000	1,000,000	0	6,550,000
NEW	Diversion Dam Fish Screen	HY	Eymann	3	0	50,000	150,000	500,000	0	700,000
NEW	SPI Land Purchase	HY	Hilton	3	0	100,000	0	0	0	100,000
Total Hydroelectric Projects					4,170,000	10,635,000	11,100,000	4,500,000	6,050,000	36,455,000

2011 - 2015 Capital Improvement Plan Recreation Projects

PROJECT NO.	PROJECT DESCRIPTION	PROG	PM	Priority	2011 Planned	2012 Planned	2013 Planned	2014 Planned	2015 Planned	2011-2015 Total
10002	Hazel Creek Campground Restoration	RE	Jaggers	2	153,466	0	0	0	0	153,466
10013	Vegetation Rehabilitation	RE	Jaggers	2	5,000	5,000	5,000	5,000	5,000	25,000
09011R	Pinecone Campground Tent Cabins	RE	Jaggers	2	15,000	15,000	0	0	0	30,000
09022R	Sly Park Master Plan Implementation	RE	Jaggers	2	30,000	30,000	0	0	0	60,000
NEW	Sly Park Boundary and Border Fencing	RE	Jaggers	2	50,000	25,000	0	0	0	75,000
NEW	Sly Park Day Use Parking Improvements	RE	Jaggers	2	50,000	50,000	0	0	0	100,000
NEW	Sly Park Trail Improvements	RE	Jaggers	2	15,000	5,000	5,000	5,000	5,000	35,000
Total Recreation Projects					318,466	130,000	10,000	10,000	10,000	478,466

General District Projects

PROJECT NO.	PROJECT DESCRIPTION	PROG	PM	Priority	2011 Planned	2012 Planned	2013 Planned	2014 Planned	2015 Planned	2011-2015 Total
NEW	2011 Equipment Replacement	GD	Price	1	228,500	0	0	0	0	228,500
NEW	2012 Equipment Replacement	GD	Price	1	0	500,000	0	0	0	500,000
NEW	IT Business Continuity and Availability	GD	Ranstrom	1	445,000	0	0	0	0	445,000
06044G	New Headquarters Facility Phase III	GD	Sullivan	1	50,000	*	*	*	0	50,000
NEW	IT SCADA/Radio Network Compliance	GD		1	0	160,000	0	0	0	160,000
09005G	IT Master Plan - Security Enhancements	GD	Eberhard	2	50,000	100,000	100,000	0	0	250,000
NEW	Real Estate Program Master Plan	GD	Hilton	2	50,000	0	0	0	0	50,000
NEW	Asset Management	GD	Mueller	2	50,000	*	*	*	*	50,000
08014G	AMR and Small Meter Replacement - Phase III	GD	Pritchard	2	50,000	50,000	3,000,000	3,000,000	0	6,100,000
10004	IT Business Network Reliability	GD	Ranstrom	2	105,000	45,000	105,000	409,000	0	664,000
10006	IT Server and Storage Reliability	GD	Ranstrom	2	650,000	110,000	125,000	610,000	0	1,495,000
10005	IT Master Plan - Business Efficiency Improvements	GD	Touey	2	500,000	300,000	290,000	100,000	100,000	1,290,000
10003	IT User System Reliability and Maintenance	GD	Ranstrom	3	20,000	0	20,000	20,000	0	60,000
NEW	Cellular Enhancement - EID HQ Buildings	GD	Ranstrom	3	20,000	0	0	0	0	20,000
NEW	IT Wireless LAN Access	GD	Ranstrom	3	0	50,000	0	0	0	50,000
Total General District Projects					2,218,500	1,315,000	3,640,000	4,139,000	100,000	11,412,500

FERC Projects

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06019H
Project Name: FERC: C35 Oyster Creek
Project Category: Regulatory Requirements

Priority: 1 **PM:** Eymann **Board Approval:** 11/08/10

Project Description:

This project is required by Condition 35 of the Settlement Agreement, and the USFS 4(e) Conditions part of the FERC License. The licensee shall be responsible for those portions of the plan that the FS, in cooperation with the licensee, determines to be Project-related by 2011. The District has conducted a channel assessment and prepared a stabilization plan as required by FS for the Oyster Creek channel. The FS and SWRCB are reviewing the proposed plan and the District is awaiting approval. The District anticipates significant permitting work for this project.

Basis for Priority:

EID would not be able to comply with the Settlement Agreement and USFS 4(e) Condition requirements contained in the FERC License.

Project Financial Summary:			
Funded to Date:	\$ 154,368	Expenditures through end of year:	\$ 154,407
Spent to Date:	\$ 139,407	2011-2015 Planned Expenditures:	\$ 365,000
Cash flow through end of year:	\$ 15,000	Total Project Estimate:	\$ 519,407
Project Balance	\$ (39)	Additional Funding Required	\$ 365,039

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 10,000					\$ 10,000
Design	\$ 80,000					\$ 80,000
Construction		\$ 275,000				\$ 275,000
						\$ -
TOTAL	\$ 90,000	\$ 275,000	\$ -	\$ -	\$ -	\$ 365,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$47,720
Water Rates	47%	\$42,318
		\$0
Total	100%	\$90,039

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: **FERC**

Project Number: 06020H
Project Name: FERC C36 Esmeralda Creek Restoration
Project Category: Regulatory Requirements
Priority: 1 **PM:** Eymann **Board Approval:** 11/08/10

Project Description:

Required by the Settlement Agreement, and the USFS 4(e) Condition 36 contained in the FERC License. The Esmeralda channel has been surveyed and a conceptual remediation plan developed. The conceptual plan was approved by FS. The remediation is required to be completed by 2011. The 60% design is complete and private property approval has been granted for the work.

Basis for Priority:

EID would not be able to comply with the Settlement Agreement and USFS 4(e) Condition requirements contained in the FERC License.

Project Financial Summary:			
Funded to Date:	\$ 178,942	Expenditures through end of year:	\$ 151,217
Spent to Date:	\$ 121,217	2011-2015 Planned Expenditures:	\$ 295,000
Cash flow through end of year:	\$ 30,000	Total Project Estimate:	\$ 446,217
Project Balance	\$ 27,725	Additional Funding Required	\$ 267,275

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$ 40,000	\$ 5,000				\$ 45,000
Construction	\$ 250,000					\$ 250,000
						\$ -
TOTAL	\$ 290,000	\$ 5,000	\$ -	\$ -	\$ -	\$ 295,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$139,006
Water Rates	47%	\$123,269
		\$0
Total	100%	\$262,275

Funding Comments: permitting and design 2010, const 2011

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06021H
Project Name: FERC C37.8 Water Temperature
Project Category: Regulatory Requirements
Priority: 1 **PM:** Deason **Board Approval:** 11/08/10

Project Description:

Mandatory requirement of the FERC license. Funding is necessary to implement an annual water temperature monitoring program at project reservoirs and stream reaches. The data collected from this monitoring effort will be used to determine if the coldwater beneficial uses are being met in designated project reaches.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Sections 7 and 12 of the Settlement Agreement, USFS 4(e) conditions 37 and 42, and SWRCB Water Quality Certification condition 14.

Project Financial Summary:			
Funded to Date:	\$ 90,000	Expenditures through end of year:	\$ 72,598
Spent to Date:	\$ 66,598	2011-2015 Planned Expenditures:	\$ 250,000
Cash flow through end of year:	\$ 6,000	Total Project Estimate:	\$ 322,598
Project Balance	\$ 17,402	Additional Funding Required	\$ 232,598

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Monitoring	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$ 225,000
Reporting	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000
						\$ -
						\$ -
TOTAL	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$17,277
Water Rates	47%	\$15,321
		\$0
Total	100%	\$32,598

Funding Comments: Annual monitoring is required until it can be demonstrated that operation of the project reasonably protects the cold freshwater beneficial use as determined by the SWRCB, FS, and ERC.

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06022H
Project Name: FERC: C38.4a Caples Feasibility Study
Project Category: Regulatory Requirements

Priority: 1 **PM:** Deason **Board Approval:** 11/08/10

Project Description:

Mandatory requirement of the FERC license. Funding is necessary to complete a feasibility study to determine whether the Caples spillway facility and / or Caples Lake main dam outlet works can be redesigned to convey adaptive management pulse flows (up to 600 cfs) into the Caples Creek natural channel. The feasibility study will include a cost estimate for facility modifications.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 8 of the Settlement Agreement, USFS 4(e) conditions 38.4a, and SWRCB Water Quality Certification condition 5.

Project Financial Summary:			
Funded to Date:	\$ 141,931	Expenditures through end of year:	\$ 81,018
Spent to Date:	\$ 81,018	2011-2015 Planned Expenditures:	\$ 60,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 141,018
Project Balance	\$ 60,913	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ 60,000
						\$ -
						\$ -
						\$ -
TOTAL	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ 60,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06023H
Project Name: FERC C39 Fish Screens
Project Category: Regulatory Requirements

Priority: 1 PM: Noel Board Approval: 11/08/10

Project Description:

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Condition 39: Within 6 months of license issuance, the licensee shall develop a plan for screening Carpenter and Alder Creeks for all life stages of trout. The plan shall be approved by the FS and CDFG after consultation with the SWRCB and ERC prior to the licensee's implementing the plan. This is a mandatory requirement of the October 18, 2006 FERC Order Issuing New License. The Alder Creek fish screen will be completed by October 15, 2010 with the contract completion date in early 2011 to allow for contract close out issues. The District has requested FERC to extend the project completion date of the Carpenter Creek Fish Screen to 2016.

Basis for Priority:

This project is currently underway to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:

Funded to Date:	\$ 77,000	Expenditures through end of year:	\$ 272,441
Spent to Date:	\$ 52,441	2011-2015 Planned Expenditures:	\$ 25,000
Cash flow through end of year:	\$ 220,000	Total Project Estimate:	\$ 297,441
Project Balance	\$ (195,441)	Additional Funding Required	\$ 220,441

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction	\$25,000				\$ -	\$ 25,000
						\$ -
TOTAL	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$116,834
Water Rates	47%	\$103,607
		\$0
Total	100%	\$220,441

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06024H
Project Name: FERC: C40 Gaging Facilities
Project Category: Regulatory Requirements
Priority: 1 **PM:** MacKay **Board Approval:** 11/08/10

Project Description:

Required by the new FERC license and the Settlement Agreement USFS 4(e) Conditions. Condition 40: The licensee shall, within 1 year after license issuance, develop and file for FERC approval a Streamflow and Reservoir Storage Gaging Plan (gaging plan) that meets United States Geological Survey (USGS) standards. The licensee shall implement the plan upon approval.

Gage improvements completed to date: A-6, A-13, A-24

Gage improvements currently in-progress: A-10, A-51

To be completed in 2011: No Name Cr below Diversion (A-50), Bull Cr Diversion (A-52), Ogilby Cr below Diversion (A-53), and Esmeralda Creek below Diversion (A-54)

Basis for Priority:

This project is required by the Project 184 FERC License and is on-going.

Project Financial Summary:			
Funded to Date:	\$ 115,000	Expenditures through end of year:	\$ 83,234
Spent to Date:	\$ 83,234	2011-2015 Planned Expenditures:	\$ 80,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 163,234
Project Balance	\$ 31,766	Additional Funding Required	\$ 48,234

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$40,000					\$ 40,000
Construction	\$40,000					\$ 40,000
						\$ -
TOTAL	\$ 80,000	\$ -	\$ -	\$ -	\$ -	\$ 80,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$25,564
Water Rates	47%	\$22,670
		\$0
Total	100%	\$48,234

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: **FERC**

Project Number: 06025H
Project Name: FERC: C41 Canal Release Points
Project Category: Regulatory Requirements
Priority: 1 **PM:** MacKay **Board Approval:** 11/08/10

Project Description:

Required by the new FERC license and the Settlement Agreement USFS 4(e) Conditions. Condition 41: The licensee shall, within 1 year after license issuance, develop and file for FERC approval a canal drainage structure and release point plan. The licensee shall implement the plan upon approval.

Scheduled to be completed by 2012 - SW 11
 Scheduled to be completed by 2017 - SW 3 and SW20 A/B

BASIS FOR PRIORITY:

This project is required by the Project 184 FERC License and is on-going.

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 19,096
Spent to Date:	\$ 19,096	2011-2015 Planned Expenditures:	\$ 20,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 39,096
Project Balance	\$ 30,904	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$5,000					\$ 5,000
Construction	\$15,000					\$ 15,000
						\$ -
TOTAL	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ 20,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: **FERC**

Project Number: 06028H
Project Name: FERC: C65 MBT Groundwater
Project Category: Regulatory Requirements
Priority: 1 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Condition 65: The licensee shall, within 3 months after license issuance, file with FERC a plan for minimizing groundwater seepage into and out of Mill to Bull Tunnel. The plan shall be approved by the FS prior to filing with FERC. The licensee shall implement the plan upon approval. The plan shall include the following: 1. A method for measurement of groundwater seepage after tunnel construction. 2. Identification of all visible seepage sources and corrective measures to address the seepage. 3. An annual inspection and report documenting the tunnel seepage sources, and springs and creeks in the vicinity of the tunnel and canal bench. Monitoring shall continue for a minimum of five years after issuance of license

Annual Tunnel Inspections completed to date: 2006 - 2009
 Annual Seeps and Springs Inspections completed to date: 2007 - 2009
 Tunnel Inspections required through: 2010
 Seeps and Springs Inspections required through: 2011

Basis for Priority:

This project is required by the Project 184 FERC License and is on-going.

Project Financial Summary:			
Funded to Date:	\$ 100,000	Expenditures through end of year:	\$ 84,907
Spent to Date:	\$ 84,907	2011-2015 Planned Expenditures:	\$ 8,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 92,907
Project Balance	\$ 15,093	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$8,000					\$ 8,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 8,000	\$ -	\$ -	\$ -	\$ -	\$ 8,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06029H
Project Name: FERC: Project Maps
Project Category: Regulatory Requirements

Priority: 1 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

Required by the new FERC license Articles 202 and 203: Within 45 days of the date of issuance of the license, the licensee shall file the approved exhibit drawings in aperture card and electronic file formats. Each exhibit G boundary map must be GIS format, georeferencing the project boundary drawing to the vector (or polygon) data, and must be based on a standard map coordinate system. We have received FERC approval of the Exhibit G drawings and completed additional tasks per their request, including: submittal of aperture cards, electronic file formats, and completion of Statement of Federal Lands.

Upon approval of request to remove a portion of the El Dorado Canal Bench (FERC C64) the Exhibit G drawings will be revised and related aperture cards will be produced.

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:			
Funded to Date:	\$ 170,000	Expenditures through end of year:	\$ 106,148
Spent to Date:	\$ 106,148	2011-2015 Planned Expenditures:	\$ 5,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 111,148
Project Balance	\$ 63,852	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 5,000					\$ 5,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06073H
Project Name: FERC: C61 Land Exchange
Project Category: Regulatory Requirements

Priority: 1 **PM:** Hilton **Board Approval:** 11/08/10

Project Description:

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions.. Condition 61: within 2 years of license issuance, develop a Land Adjustment Proposal that addresses possible land exchanges or other management actions that would result in more efficient land management by concerned parties. This proposal shall include consideration of land exchanges between the FS and the licensee at Silver Lake East and West Campgrounds, Oyster Creek Rest Stop, and in the Sly Park/Pollock Pines area and shall require consultation with the involved parties and filing of the proposal with FERC.

This is a mandatory requirement of the October 18, 2006 FERC Order Issuing New License.

A vast majority of this project has been completed. There are some remaining ancillary charges pending prior to closeout of the project.

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:			
Funded to Date:	\$ 489,713	Expenditures through end of year:	\$ 337,822
Spent to Date:	\$ 307,822	2011-2015 Planned Expenditures:	\$ 60,000
Cash flow through end of year:	\$ 30,000	Total Project Estimate:	\$ 397,822
Project Balance	\$ 151,891	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
BLM Payment	\$ 60,000					\$ 60,000
						\$ -
						\$ -
						\$ -
TOTAL	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ 60,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06076H
Project Name: FERC C38.4b Caples Spillway Channel Stabilization
Project Category: Regulatory Requirements
Priority: 1 **PM:** Eymann **Board Approval:** 11/08/10

Project Description:

This study is a mandatory requirement of the FERC license. Funding is necessary to develop a stabilization plan for the Caples spillway channel. Geomorphology monitoring conducted in 2009 and 2010 will provide a basis to determine maximum design flow capacity needed for the spillway channel stabilization plan. Design and permitting is planned for 2011 and construction for 2012.

Basis for Priority:

Compliance with the FERC license, Section 8 of the Settlement Agreement, USFS 4(e) conditions 38.4b, and SWRCB Water Quality Certification condition 5.

Project Financial Summary:			
Funded to Date:	\$ 190,304	Expenditures through end of year:	\$ 40,173
Spent to Date:	\$ 35,173	2011-2015 Planned Expenditures:	\$ 450,000
Cash flow through end of year:	\$ 5,000	Total Project Estimate:	\$ 490,173
Project Balance	\$ 150,131	Additional Funding Required	\$ 299,869

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 75,000	\$ 25,000				\$ 100,000
Design		\$ 50,000				\$ 50,000
Construction		\$ 300,000				\$ 300,000
TOTAL	\$ 75,000	\$ 375,000	\$ -	\$ -	\$ -	\$ 450,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments: Construction costs to be refined as monitoring data is evaluated and the design is developed

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06077H
Project Name: FERC: C37.6 Geomorphology Sensitive Site
Project Category: Regulatory Requirements

Priority: 1 **PM:** Deason **Board Approval:** 11/08/10

Project Description:

Mandatory requirement of the FERC license. Funding is necessary to conduct geomorphology monitoring at three locations:

- Caples Creek
- Caples spillway channel
- Oyster Creek

This monitoring effort provides information for use in developing the Caples feasibility study (CIP # 06022H), Caples spillway channel stabilization plan (CIP# 06076H), and the Oyster Creek stabilization plan (CIP# 06019H).

Caples spillway channel and Oyster Creek monitoring, data analysis, and reporting completed in 2009. Caples Creek monitoring completed in 2010; data analysis and reporting scheduled for completion in 2011.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 37, and SWRCB Water Quality Certification condition 13.

Project Financial Summary:			
Funded to Date:	\$ 145,189	Expenditures through end of year:	\$ 135,189
Spent to Date:	\$ 125,216	2011-2015 Planned Expenditures:	\$ 10,000
Cash flow through end of year:	\$ 9,973	Total Project Estimate:	\$ 145,189
Project Balance	\$ 10,000	Additional Funding Required	\$ 0

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Reporting	\$ 10,000					\$ 10,000
						\$ -
						\$ -
						\$ -
TOTAL	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments: Reporting in 2011

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06078H
Project Name: FERC: C50.3 Caples Lake Dam Parking
Project Category: Regulatory Requirements
Priority: 1 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Condition 50.3: By 2012, the District must improve the Caples Lake Dam Parking area and shall be reconstructed and upgraded to meet the current FS design standards and the USDA Forest Service Region 5 access standards and the Americans with Disabilities Act. Construct a van-accessible parking space near the toilet, with required markings and signage.

The District has submitted a request to FERC and FS to extend the project completion date 2016. The District will realize cost savings if this project is constructed in conjunction with the FERC: C51.8 Silver Lake Campgrounds West Improvement Projects due to the close proximity, similarity of the work, construction and administration efficiencies.

Basis for Priority:

This project is required to comply with the FERC License Condition No. 50.3 and USFS 4(e) Condition requirements.

Project Financial Summary:			
Funded to Date:	\$ 12,000	Expenditures through end of year:	\$ 840
Spent to Date:	\$ 840	2011-2015 Planned Expenditures:	\$ 100,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 100,840
Project Balance	\$ 11,160	Additional Funding Required	\$ 88,840

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design				\$ 50,000	\$ 50,000	\$ 100,000
Construction						\$ -
						\$ -
TOTAL	\$ -	\$ -	\$ -	\$ 50,000	\$ 50,000	\$ 100,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06079H
Project Name: FERC: C50.5 Hwy 88 Kiosk
Project Category: Regulatory Requirements
Priority: 1 **PM:** Downey **Board Approval:** 11/08/10

Project Description:

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Condition 50.5: Within 5 years of license issuance, the licensee shall construct an information kiosk to FS specifications, at a location agreed to by the FS. After construction, the licensee shall maintain the kiosk structure to meet FS Region 5 standards as set forth in Condition No. 51.

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:			
Funded to Date:	\$ 12,000	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 25,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 25,000
Project Balance	\$ 12,000	Additional Funding Required	\$ 13,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction	\$25,000					\$ 25,000
						\$ -
TOTAL	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$6,890
Water Rates	47%	\$6,110
		\$0
Total	100%	\$13,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06080H
Project Name: FERC: C50.6 Martin Meadow Campground
Project Category: Regulatory Requirements

Priority: 1 **PM:** Downey **Board Approval:** 11/08/10

Project Description:

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Condition 50.6: Within 5 years of license issuance, the licensee shall make the following improvement at the Martin Meadows Overflow Camping Area to address recreation impacts: Install barrier rocks to restrict uncontrolled vehicle travel. The FS will make available the barrier rocks from a site identified by the FS.

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:			
Funded to Date:	\$ 12,000	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 25,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 25,000
Project Balance	\$ 12,000	Additional Funding Required	\$ 13,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction	\$25,000					\$ 25,000
						\$ -
TOTAL	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$6,890
Water Rates	47%	\$6,110
		\$0
Total	100%	\$13,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06081H
Project Name: FERC: C50.8 Pacific Crest Trail Crossing
Project Category: Regulatory Requirements
Priority: 1 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Condition 50.8: Within 5 years, the licensee shall construct a crossing for the Pacific Crest National Scenic Trail across the Echo Conduit, to meet current FS design standards, at a location agreed to by the FS. Construction methods and types have not yet been determined, but may be a pedestrian bridge below Echo Tunnel or a simple graded trail at another location.

The District has submitted a request to FERC and FS to extend the project completion date 2016.

Basis for Priority:

Project is required by Project 184 license, but the District has some discretion as to when construction occurs.

Project Financial Summary:			
Funded to Date:	\$ 12,000	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 40,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 40,000
Project Balance	\$ 12,000	Additional Funding Required	\$ 28,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design					\$40,000	\$ 40,000
Construction						\$ -
						\$ -
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ 40,000	\$ 40,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06082H
Project Name: FERC: C50.1 Silver Lake Campground East Re-Construction
Project Category: Regulatory Requirements

Priority: 1 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. By 2012 the District must reconstruct the paved surfaces, toilets, and water system at the 62-unit USFS Silver Lake Campground, including upgrade of this facility to meet the current FS design standards and the USDA Forest Service Region 5 accessibility standards requirements of the Americans with Disabilities Act (ADA). Note the District has submitted a request to FERC and FS to extend the project completion date 2016. The construction schedule shows the improvements to the Silver Lake East Campground occurring for the 2015 construction season to avoid closing Silver Lake East and West Campgrounds at the same time.

Basis for Priority:

This project is required to comply with the FERC License Condition No. 50.1 and USFS 4(e) Condition requirements.

Project Financial Summary:			
Funded to Date:	\$ 42,135	Expenditures through end of year:	\$ 30,574
Spent to Date:	\$ 30,574	2011-2015 Planned Expenditures:	\$ 2,100,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 2,130,574
Project Balance	\$ 11,561	Additional Funding Required	\$ 2,088,439

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design			\$ 50,000	\$ 50,000	\$ 2,000,000	\$ 2,100,000
Construction						\$ -
						\$ -
TOTAL	\$ -	\$ -	\$ 50,000	\$ 50,000	\$ 2,000,000	\$ 2,100,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: **FERC**

Project Number: 06086H
Project Name: FERC C33 Lake Aloha Trout Removal
Project Category: Regulatory Requirements
Priority: 1 **PM:** Deason **Board Approval:** 11/08/10

Project Description:

Mandatory requirement of the FERC license. Funding only necessary in years when a spill occurs over the auxiliary dams at Lake Aloha. If spill occurs, EID is required to manually remove trout from the pools downstream of the auxiliary dams to help reduce potential impacts to mountain yellow-legged frogs by trout predation.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 33, and SWRCB Water Quality Certification condition 4.

Project Financial Summary:			
Funded to Date:	\$ 75,000	Expenditures through end of year:	\$ 28,323
Spent to Date:	\$ 16,323	2011-2015 Planned Expenditures:	\$ 60,000
Cash flow through end of year:	\$ 12,000	Total Project Estimate:	\$ 88,323
Project Balance	\$ 46,677	Additional Funding Required	\$ 13,323

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$ 60,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000	\$ 60,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments: Amphibian surveys also required if Lake Aloha spills; funding for amphibian surveys from CIP # 06089H

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06087H
Project Name: FERC C37.1 Fish Monitoring
Project Category: Regulatory Requirements
Priority: 1 **PM:** Deason **Board Approval:** 11/08/10

Project Description:

Mandatory requirement of the FERC license. The objective of this monitoring effort is to evaluate the status of fish populations in selected stream reaches for comparison to the ecological resource objectives to help determine if ecological resource objectives are achievable and being met, as specified in the El Dorado Hydroelectric Project No. 184 Adaptive Management Program.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 37, and SWRCB Water Quality Certification condition 13.

Project Financial Summary:			
Funded to Date:	\$ 40,000	Expenditures through end of year:	\$ 37,158
Spent to Date:	\$ 35,158	2011-2015 Planned Expenditures:	\$ 240,000
Cash flow through end of year:	\$ 2,000	Total Project Estimate:	\$ 277,158
Project Balance	\$ 2,842	Additional Funding Required	\$ 237,158

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Monitoring	\$ 100,000	\$ 100,000				\$ 200,000
Reporting		\$ 20,000	\$ 20,000			\$ 40,000
						\$ -
TOTAL	\$ 100,000	\$ 120,000	\$ 20,000	\$ -	\$ -	\$ 240,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$51,494
Water Rates	47%	\$45,664
		\$0
Total	100%	\$97,158

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06088H
Project Name: FERC: C37.2 Macroinvertebrate Monitoring
Project Category: Regulatory Requirements

Priority: 1 PM: Deason Board Approval: 11/08/10

Project Description:

Mandatory requirement of the FERC license. The objective of this monitoring effort is to evaluate the status of macroinvertebrates in selected stream reaches for comparison to the ecological resource objectives to help determine if ecological resource objectives are achievable and being met, as specified in the El Dorado Hydroelectric Project No. 184 Adaptive Management Program.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 37, and SWRCB Water Quality Certification condition 13.

Project Financial Summary:			
Funded to Date:	\$ 15,000	Expenditures through end of year:	\$ 4,487
Spent to Date:	\$ 1,487	2011-2015 Planned Expenditures:	\$ 150,000
Cash flow through end of year:	\$ 3,000	Total Project Estimate:	\$ 154,487
Project Balance	\$ 10,513	Additional Funding Required	\$ 139,487

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Monitoring	\$55,000	\$55,000				\$ 110,000
Reporting		\$ 20,000	\$ 20,000			\$ 40,000
						\$ -
						\$ -
TOTAL	\$ 55,000	\$ 75,000	\$ 20,000	\$ -	\$ -	\$ 150,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$23,578
Water Rates	47%	\$20,909
		\$0
Total	100%	\$44,487

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06089H
Project Name: FERC: C37.3 Amphibian Monitoring
Project Category: Regulatory Requirements

Priority: 1 PM: Deason Board Approval: 11/08/10

Project Description:

Mandatory requirement of the FERC license. Amphibian surveys are required June through September if at any time flows in the South Fork of the American River (SFAR) are 100 cfs or less and the diversion into the canal causes the flow in the South Fork to change 50 cfs or more in 1 day. The objective of these surveys is to assess the effects of flow fluctuations on foothill yellow-legged frog egg masses and tadpoles. Amphibian surveys for mountain yellow-legged frog and foothill yellow-legged frog are also required every five years at Project reservoirs and stream reaches as part of the Project 184 monitoring program. Amphibian surveys are also required in years when a spill occurs over the auxiliary dams at Lake Aloha. If spill occurs, EID is required to survey for mountain yellow-legged frogs in the pools downstream of the auxiliary dams.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 37, and SWRCB Water Quality Certification condition 13.

Project Financial Summary:

Funded to Date:	\$ 115,000	Expenditures through end of year:	\$ 104,089
Spent to Date:	\$ 101,089	2011-2015 Planned Expenditures:	\$ 190,000
Cash flow through end of year:	\$ 3,000	Total Project Estimate:	\$ 294,089
Project Balance	\$ 10,911	Additional Funding Required	\$ 179,089

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Monitoring	\$85,000					\$ 85,000
SFAR flow fluctuations	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000
Lake Aloha monitoring	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000	\$ 60,000
Reporting		\$ 20,000				\$ 20,000
TOTAL	\$ 102,000	\$ 37,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 190,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$48,277
Water Rates	47%	\$42,812
		\$0
Total	100%	\$91,089

Funding Comments: Flow fluctuation monitoring only required if license criteria is triggered. Monitoring at Lake Aloha is only necessary in years when a spill occurs over the auxiliary dams.

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06090H
Project Name: FERC: C37.4 Riparian Species Composition
Project Category: Regulatory Requirements

Priority: 1 PM: Deason Board Approval: 11/08/10

Project Description:

Mandatory requirement of the FERC license. The objective of this monitoring effort is to evaluate riparian species composition at selected stream reaches for comparison to the ecological resource objectives to help determine if ecological resource objectives are achievable and being met, as specified in the El Dorado Hydroelectric Project No. 184 Adaptive Management Program.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 37, and SWRCB Water Quality Certification condition 13.

Project Financial Summary:			
Funded to Date:	\$ 1,000	Expenditures through end of year:	\$ 2,687
Spent to Date:	\$ 1,687	2011-2015 Planned Expenditures:	\$ 35,000
Cash flow through end of year:	\$ 1,000	Total Project Estimate:	\$ 37,687
Project Balance	\$ (1,687)	Additional Funding Required	\$ 36,687

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Monitoring	\$25,000					\$ 25,000
Reporting		\$ 10,000				\$ 10,000
						\$ -
						\$ -
TOTAL	\$ 25,000	\$ 10,000	\$ -	\$ -	\$ -	\$ 35,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$14,144
Water Rates	47%	\$12,543
		\$0
Total	100%	\$26,687

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06091H
Project Name: FERC: C37.5 Riparian Vegetation Recruitment
Project Category: Regulatory Requirements

Priority: 1 **PM:** Deason **Board Approval:** 11/08/10

Project Description:

Mandatory requirement of the FERC license. The objective of this monitoring effort is to evaluate riparian vegetation recruitment at selected stream reaches for comparison to the ecological resource objectives to help determine if ecological resource objectives are achievable and being met, as specified in the El Dorado Hydroelectric Project No. 184 Adaptive Management Program.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 37, and SWRCB Water Quality Certification condition 13.

Project Financial Summary:			
Funded to Date:	\$ 10,000	Expenditures through end of year:	\$ 2,144
Spent to Date:	\$ 1,144	2011-2015 Planned Expenditures:	\$ 15,000
Cash flow through end of year:	\$ 1,000	Total Project Estimate:	\$ 17,144
Project Balance	\$ 7,856	Additional Funding Required	\$ 7,144

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Monitoring	\$10,000					\$ 10,000
Reporting		\$ 5,000				\$ 5,000
						\$ -
						\$ -
TOTAL	\$ 10,000	\$ 5,000	\$ -	\$ -	\$ -	\$ 15,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$1,136
Water Rates	47%	\$1,008
		\$0
Total	100%	\$2,144

Funding Comments: Monitoring 2011, report 2012

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06092H
Project Name: FERC: C37.7 Geomorphology Evaluation
Project Category: Regulatory Requirements
Priority: 1 **PM:** Deason **Board Approval:** 11/08/10

Project Description:

Mandatory requirement of the FERC license. The objective of this monitoring effort is to monitor representative stream channel areas for comparison to the ecological resource objectives to help determine if ecological resource objectives are achievable and being met, as specified in the El Dorado Hydroelectric Project No. 184 Adaptive Management Program.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 37, and SWRCB Water Quality Certification condition 13.

Project Financial Summary:			
Funded to Date:	\$ 10,000	Expenditures through end of year:	\$ 4,289
Spent to Date:	\$ 1,289	2011-2015 Planned Expenditures:	\$ 125,000
Cash flow through end of year:	\$ 3,000	Total Project Estimate:	\$ 129,289
Project Balance	\$ 5,711	Additional Funding Required	\$ 119,289

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Monitoring	\$100,000					\$ 100,000
Reporting		\$ 25,000				\$ 25,000
Construction						\$ -
						\$ -
TOTAL	\$ 100,000	\$ 25,000	\$ -	\$ -	\$ -	\$ 125,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$49,973
Water Rates	47%	\$44,316
		\$0
Total	100%	\$94,289

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06096H
Project Name: FERC: C55 Heritage Resources
Project Category: Regulatory Requirements
Priority: 1 **PM:** Deason **Board Approval:** 11/08/10

Project Description:

Mandatory requirement of the FERC license. Funding is necessary to complete and implement the Heritage Properties Management Plan (HPMP). The HPMP provides management protocols and mitigation measures for the ongoing protection of archaeological resources located within the FERC boundary.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license and USFS 4(e) conditions 55 and 56.

Project Financial Summary:			
Funded to Date:	\$ 274,580	Expenditures through end of year:	\$ 209,386
Spent to Date:	\$ 204,386	2011-2015 Planned Expenditures:	\$ 250,000
Cash flow through end of year:	\$ 5,000	Total Project Estimate:	\$ 459,386
Project Balance	\$ 65,194	Additional Funding Required	\$ 184,806

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$50,000	\$50,000	\$50,000	\$50,000	\$ 50,000	\$ 250,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments: Finalize HPMP and implement upon approval

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06097H
Project Name: FERC: C59 Facility Management Plan
Project Category: Regulatory Requirements

Priority: 1 **PM:** Downey **Board Approval:** 11/08/10

Project Description:

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Condition 59: Within 1 year of license issuance, the licensee shall file with FERC a Facility Management Plan that is approved by the FS. The licensee shall implement the plan upon approval. Every 5 years, the licensee shall prepare a 5-year plan that will identify the maintenance, reconstruction, and removal needs for Project facilities within the FERC boundary and located on Forest Service property. The licensee shall file the plan with FERC after approval by the FS. Items remaining to be done include: repainting the roof and siding at the Alder Creek Siphon, remove buildings at SW 20A boathouse; and development of a plan for the structures across from the powerhouse, the winch house at the surge chamber, and the water tank shed.

Basis for Priority:

Project is required by Project 184 license and is on-going.

Project Financial Summary:			
Funded to Date:	\$ 70,000	Expenditures through end of year:	\$ 34,942
Spent to Date:	\$ 19,942	2011-2015 Planned Expenditures:	\$ 205,000
Cash flow through end of year:	\$ 15,000	Total Project Estimate:	\$ 239,942
Project Balance	\$ 35,059	Additional Funding Required	\$ 169,942

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design		\$ 25,000				\$ 25,000
Construction	\$80,000		\$ 100,000			\$ 180,000
						\$ -
TOTAL	\$ 80,000	\$ 25,000	\$ 100,000	\$ -	\$ -	\$ 205,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$23,819
Water Rates	47%	\$21,123
		\$0
Total	100%	\$44,942

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 06098H
Project Name: FERC: C46 thru C49 Recreation Resource Mgmt
Project Category: Regulatory Requirements

Priority: 1 PM: Jagers Board Approval: 11/08/10

Project Description:

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Conditions 46-49: Condition No. 46 – Implementation Plan. A recreation implementation plan shall be developed by the licensee in coordination with the FS within 6 months of license issuance. Condition No. 47 - Recreation Survey. The licensee shall conduct a Recreational Survey and prepare a Report on Recreational Resources that is approved by the FS every 6 years from the date of license issuance. Condition No. 48 – Forest Service Liaison. The FS and the licensee shall each provide an individual for liaison whenever planning or construction of recreation facilities, other major Project improvements, and maintenance activities are taking place within the National Forest. Condition No. 49 - Review of Recreation Developments. The FS and the licensee shall meet at least every 6 years to review all recreation facilities and areas associated with the Project and to agree upon necessary maintenance, rehabilitation, construction, and reconstruction work needed and its timing, as described in Conditions No. 49 and 50. Following the review, the licensee shall develop a 6-year schedule for maintenance, rehabilitation, and reconstruction.

This is a mandatory requirement of the October 18, 2006 FERC Order Issuing New License

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:			
Funded to Date:	\$ 64,000	Expenditures through end of year:	\$ 43,561
Spent to Date:	\$ 43,561	2011-2015 Planned Expenditures:	\$ 125,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 168,561
Project Balance	\$ 20,439	Additional Funding Required	\$ 104,561

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$ 125,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$2,417
Water Rates	47%	\$2,144
		\$0
Total	100%	\$4,561

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 07003H
Project Name: FERC: C37.9 Water Quality
Project Category: Regulatory Requirements

Priority: 1 **PM:** Deason **Board Approval:** 11/08/10

Project Description:

Mandatory requirement of the FERC license. Funding is necessary to implement the water quality monitoring program at project reservoirs and stream reaches. The data collected from this monitoring effort will be used to characterize water quality under current project operations and help determine if applicable water quality objectives/criteria are met and whether designated beneficial uses are protected.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 37, and SWRCB Water Quality Certification condition 13.

Project Financial Summary:			
Funded to Date:	\$ 300,000	Expenditures through end of year:	\$ 190,649
Spent to Date:	\$ 130,649	2011-2015 Planned Expenditures:	\$ 230,000
Cash flow through end of year:	\$ 60,000	Total Project Estimate:	\$ 420,649
Project Balance	\$ 109,351	Additional Funding Required	\$ 120,649

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Monitoring		\$100,000		\$100,000		\$ 200,000
Reporting	\$ 10,000		\$ 10,000		\$ 10,000	\$ 30,000
						\$ -
						\$ -
TOTAL	\$ 10,000	\$ 100,000	\$ 10,000	\$ 100,000	\$ 10,000	\$ 230,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments: Monitoring in 2014 depends on agency review of first 3 years of monitoring data (2008, 2010, and 2012).

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 07005H
Project Name: FERC: C51.3 RM Echo Trailhead
Project Category: Regulatory Requirements
Priority: 1 **PM:** Jagers **Board Approval:** 11/08/10

Project Description:

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Conditions 51.3: The licensee shall be responsible for the following annual maintenance items for USFS Property on USFS Lands.

- a. Toilet pumping.
- b. Trash removal/litter pick-up within the site.

This is a mandatory requirement of the October 18, 2006 FERC Order Issuing New License

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:			
Funded to Date:	\$ 30,000	Expenditures through end of year:	\$ 2,913
Spent to Date:	\$ 2,913	2011-2015 Planned Expenditures:	\$ 25,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 27,913
Project Balance	\$ 27,087	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$ 25,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 07006H
Project Name: FERC: C51.5 and C51.7 RM USFS Payments
Project Category: Regulatory Requirements

Priority: 1 **PM:** Jagers **Board Approval:** 11/08/10

Project Description:

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Conditions 51.5 and C51.7: (5.) Special Use Administration Funding: The licensee shall annually pay, by October 1, the amount of \$4,800 (year 2002 cost basis) to provide for performing monitoring and permit compliance assurance for the campground concessionaire special use permits at Caples Lake Campground and Silver Lake East Campground. The costs shall be escalated based on the U.S. Gross Domestic Product – Implicit Price Deflator (GDP-IDP). (7.) Dispersed Area Patrol Funding on Lands Affected by the Project: The licensee shall annually pay, by October 1, \$25,000 (year 2002 cost basis). The cost shall be escalated based on the U.S. Gross Domestic Product – Implicit Price Deflator (GDP-IDP). These funds are to provide for patrol and operation of non-concessionaire developed and dispersed recreation facilities, as well as trails and other locations utilized by visitors to the Project, within and adjacent to the Project boundary. The licensee shall annually provide a boat and operator at least twice each season (time to be determined by mutual agreement between the licensee and the FS) on Caples Lake and Silver Lake to share with the FS in policing the shoreline along Silver Lake and Caples Lake, and to clean up litter.

This is a mandatory requirement of the October 18, 2006 FERC Order Issuing New License

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:			
Funded to Date:	\$ 142,718	Expenditures through end of year:	\$ 138,076
Spent to Date:	\$ 138,076	2011-2015 Planned Expenditures:	\$ 206,185
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 344,261
Project Balance	\$ 4,642	Additional Funding Required	\$ 201,543

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$38,836	\$40,001	\$41,201	\$42,437	\$43,710	\$ 206,185
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 38,836	\$ 40,001	\$ 41,201	\$ 42,437	\$ 43,710	\$ 206,185

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$18,123
Water Rates	47%	\$16,071
		\$0
Total	100%	\$34,194

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 07007H
Project Name: FERC: C51.8 RM Silver Lake Boat Launch
Project Category: Regulatory Requirements
Priority: 1 **PM:** Jagers **Board Approval:** 11/08/10

Project Description:

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Condition 51.8: Silver Lake Boat Ramp, shall continue to be operated and maintained by the licensee throughout the term of the license.

This is a mandatory requirement of the October 18, 2006 FERC Order Issuing New License

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:			
Funded to Date:	\$ 130,000	Expenditures through end of year:	\$ 100,479
Spent to Date:	\$ 100,479	2011-2015 Planned Expenditures:	\$ 210,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 310,479
Project Balance	\$ 29,521	Additional Funding Required	\$ 180,479

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$70,000	\$35,000	\$35,000	\$35,000	\$35,000	\$ 210,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 70,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 210,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$21,454
Water Rates	47%	\$19,025
		\$0
Total	100%	\$40,479

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 07008H
Project Name: FERC: C51.8 Silver Lake Campgrounds West Improvements
Project Category: Regulatory Requirements

Priority: 1 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

Required by the new FERC License Settlement Agreement, and the USFS 4(e) Conditions, Condition 51.8: the District shall reconstruct the EID Silver Lake Campground, or equivalent location into compliance with accessibility standards for the Americans with Disabilities Act. Within 5 years of license issuance, the licensee shall bring the Silver Lake East recreation facilities up to Forest Service standards for ADA compliance. The construction schedule shows the improvements to the Silver Lake West Campground and the FERC:C50 Caples Lake Dam Parking Project occurring at the same time to realize cost savings due to the close proximity and similarity of the work to be completed and construction efficiencies. The District has submitted a request to FERC and FS to extend the project completion date to 2016.

Basis for Priority:

This project is required to comply with the FERC License Condition No. 51.8 and USFS 4(e) Condition requirements.

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 31,684
Spent to Date:	\$ 31,684	2011-2015 Planned Expenditures:	\$ 100,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 131,684
Project Balance	\$ 18,316	Additional Funding Required	\$ 81,684

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design				\$ 50,000	\$ 50,000	\$ 100,000
Construction						\$ -
						\$ -
TOTAL	\$ -	\$ -	\$ -	\$ 50,000	\$ 50,000	\$ 100,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 07009H
Project Name: FERC: C51.8 RM Woods Creek Fishing Access
Project Category: Regulatory Requirements

Priority: 1 **PM:** Jagers **Board Approval:** 11/08/10

Project Description:

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Conditions 51.8: Licensee Recreation Sites: Within 10 years of license issuance, the licensee shall bring the Ferguson Point, Sandy Cove, Woods Creek Fishing Access, and Silver Lake West recreation facilities or equivalent locations into compliance with accessibility standards for the Americans with Disabilities Act. These facilities, along with the Silver Lake Boat Ramp, shall continue to be operated and maintained by the licensee throughout the term of the license.

Woods Creek was erroneously listed in the license as EID Property, however this misstatement does not relieve EID from the obligation to maintain this facility.

This is a mandatory requirement of the October 18, 2006 FERC Order Issuing New License

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:			
Funded to Date:	\$ 19,500	Expenditures through end of year:	\$ 17,390
Spent to Date:	\$ 17,390	2011-2015 Planned Expenditures:	\$ 25,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 42,390
Project Balance	\$ 2,110	Additional Funding Required	\$ 22,890

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$ 25,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$1,532
Water Rates	47%	\$1,359
		\$0
Total	100%	\$2,890

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 07010H
Project Name: FERC: C15 Pesticide Use
Project Category: Regulatory Requirements

Priority: 1 **PM:** Deason **Board Approval:** 11/08/10

Project Description:

Mandatory requirement of the FERC license. Funding is requested to implement the integrated pest management plan (IPMP). The IPMP addresses pesticide use at EID facilities within the jurisdiction of the EI Dorado National Forest (ENF) and Lake Tahoe Basin Management Unit (LTBMU).

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license and USFS 4(e) condition 15.

Project Financial Summary:			
Funded to Date:	\$ 315,000	Expenditures through end of year:	\$ 315,000
Spent to Date:	\$ 216,585	2011-2015 Planned Expenditures:	\$ 500,000
Cash flow through end of year:	\$ 98,415	Total Project Estimate:	\$ 815,000
Project Balance	\$ (0)	Additional Funding Required	\$ 500,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Implementation	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$ 500,000
						\$ -
						\$ -
						\$ -
TOTAL	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$53,000
Water Rates	47%	\$47,000
		\$0
Total	100%	\$100,000

Funding Comments:

Annual implementation requirements; costs may fluctuate annually depending on treatment locations

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 07011H
Project Name: FERC: C38 Adaptive Mgmt Program
Project Category: Regulatory Requirements

Priority: 1 **PM:** Deason **Board Approval:** 11/08/10

Project Description:

Mandatory requirement of the FERC license. Funding is requested for staff time to implement the adaptive management program (Condition 38) of the FERC license. This program requires coordination with the Ecological Resources Committee (ERC), implementation of the resource monitoring program, and evaluation of monitoring results to determine if resource objectives are achievable and being met.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 14 of the Settlement Agreement, and USFS 4(e) condition 38.

Project Financial Summary:			
Funded to Date:	\$ 260,000	Expenditures through end of year:	\$ 253,903
Spent to Date:	\$ 223,903	2011-2015 Planned Expenditures:	\$ 500,000
Cash flow through end of year:	\$ 30,000	Total Project Estimate:	\$ 753,903
Project Balance	\$ 6,097	Additional Funding Required	\$ 493,903

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Implementation	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$ 500,000
						\$ -
						\$ -
						\$ -
TOTAL	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$49,769
Water Rates	47%	\$44,135
		\$0
Total	100%	\$93,903

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number:

07030H

Project Name:

FERC: C57 Transportation System Management Plan

Project Category:

Regulatory Requirements

Priority:

1

PM:

Downey

Board Approval:

11/08/10

Project Description:

Condition 57 states within 1 year of license issuance, the licensee shall file with FERC a transportation system management plan that is approved by the FS for roads on or affecting National Forest System lands. The plan shall establish the level of licensee responsibility for project-related roads. The licensee shall have primary responsibility for non-system roads and for maintenance level 1 and 2 roads. The plan has been prepared and approved by the FS. Implementation of the plan is now underway.

Basis for Priority:

Project is required by Project 184 license and is on-going.

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 50,000
Spent to Date:	\$ 28,091	2011-2015 Planned Expenditures:	\$ 25,000
Cash flow through end of year:	\$ 21,909	Total Project Estimate:	\$ 75,000
Project Balance	\$ 0	Additional Funding Required	\$ 25,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 25,000					\$ 25,000
						\$ -
TOTAL	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$13,250
Water Rates	47%	\$11,750
		\$0
Total	100%	\$25,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: **FERC**

Project Number: **07035H**
 Project Name: **FERC: C51.8 RM Silver Lake CG West Operations**
 Project Category: **Regulatory Requirements**

Priority: **1** PM: **Certiberi** Board Approval: **11/08/10**

Project Description:

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Condition 51.8: Within 10 years of license issuance, the licensee shall bring the Ferguson Point, Sandy Cove, Woods Creek Fishing Access, and Silver Lake West recreation facilities or equivalent locations into compliance with accessibility standards for the Americans with Disabilities Act. These facilities, along with the Silver Lake Boat Ramp, **shall continue to be operated and maintained by the licensee throughout the term of the license.**

This is a mandatory requirement of the October 18, 2006 FERC Order Issuing New License

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:			
Funded to Date:	\$ 190,000	Expenditures through end of year:	\$ 141,348
Spent to Date:	\$ 141,348	2011-2015 Planned Expenditures:	\$ 300,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 441,348
Project Balance	\$ 48,652	Additional Funding Required	\$ 251,348

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$ 300,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 300,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$6,014
Water Rates	47%	\$5,334
		\$0
Total	100%	\$11,348

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: **FERC**

Project Number: 08025H
Project Name: FERC C44 Noxious Weed Implementation
Project Category: Regulatory Requirements

Priority: 1 **PM:** Deason **Board Approval:** 11/08/10

Project Description:

Mandatory requirement of the FERC license. Funding is requested to implement the noxious weed plan for the prevention and control of noxious weeds at project facilities.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 8 of the Settlement Agreement, and USFS 4(e) condition 44.

Project Financial Summary:			
Funded to Date:	\$ 77,828	Expenditures through end of year:	\$ 71,487
Spent to Date:	\$ 54,487	2011-2015 Planned Expenditures:	\$ 150,000
Cash flow through end of year:	\$ 17,000	Total Project Estimate:	\$ 221,487
Project Balance	\$ 6,342	Additional Funding Required	\$ 143,659

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Implementation	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$ 125,000
Reporting	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000
						\$ -
						\$ -
TOTAL	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 150,000

Funding Sources	Percentage	2011 Funding Amount
Power Revenues	100%	\$23,659
		\$0
		\$0
Total	100%	\$23,659

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: FERC

Project Number: 10007
Project Name: FERC C51.2 RM Caples Boat Launch
Project Category: Regulatory Requirements

Priority: 1 **PM:** Jagers **Board Approval:** 11/08/10

Project Description:

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Condition 51.8: Within 10 years of license issuance, the licensee shall bring the Ferguson Point, Sandy Cove, Woods Creek Fishing Access, and Silver Lake West recreation facilities or equivalent locations into compliance with accessibility standards for the Americans with Disabilities Act. These facilities, along with the Silver Lake Boat Ramp, shall continue to be operated and maintained by the licensee throughout the term of the license.

This is a mandatory requirement of the October 18, 2006 FERC Order Issuing New License

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:			
Funded to Date:	\$ 35,000	Expenditures through end of year:	\$ 11,962
Spent to Date:	\$ 11,962	2011-2015 Planned Expenditures:	\$ 175,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 186,962
Project Balance	\$ 23,038	Additional Funding Required	\$ 151,962

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$ 175,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 175,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$6,340
Water Rates	47%	\$5,622
		\$0
Total	100%	\$11,962

Funding Comments:

Water Projects

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 00006E
Project Name: Rediversion of Ditch Water Rights
Project Category: Reliability & Service Level Improvements

Priority: 1 **PM:** Cumpston **Board Approval:** 11/08/10

Project Description:

The District has pre 1914 water rights to the Summerfield Ditch (Slab Creek), Farmers Free Ditch (Weber Creek), Gold Hill Ditch (Hangtown Creek) and licensed storage rights in Weber Reservoir. These water rights have historically been used for irrigation. Over the years, many of the irrigation customers have converted to the District's potable pipe system. As a result, these water rights are available for use elsewhere in the District. Currently, it is proposed that these water rights be rediverted to Folsom Lake for domestic use in El Dorado Hills/Cameron Park areas. The Weber Reservoir water rights change also includes the MOU with the Attorney General and Dept. of Fish and Game on Weber Creek instream flows. With USBR's execution of a 40-year Warren Act Contract of 4,560 acre-feet for these supplies, the District may now consider the abandonment or disposition of the ditch properties. District master planning documents identify this water supply as a source for meeting the needs of new growth authorized by El Dorado County's land-use policies and decisions.

Changing the point of diversion, place of use and purpose of use for the Weber Reservoir licensed right to Folsom Lake required approval by the State Water Resources Control Board (SWRCB). In 2010, the USBR approved a Warren Act contract for EID to convey and take the pre 1914 and Weber Reservoir water at Folsom Reservoir. With this permanent conversion of the water rights formerly associated with the ditches, it is appropriate for the District now to study the abandonment or other disposition of the ditch alignments and facilities, pursuant to Board direction given in 2003. Funding in 2011 is to begin field studies and environmental work for this decision. Subsequent-year funding represents anticipated decommissioning costs.

Basis for Priority:

Unused ditch facilities pose potential liability risks to the District and are likely surplus to the District's needs.

Project Financial Summary:

Funded to Date:	\$ 448,836	Expenditures through end of year:	\$ 447,401
Spent to Date:	\$ 447,401	2011-2015 Planned Expenditures:	\$ 320,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 767,401
Project Balance	\$ 1,435	Additional Funding Required	\$ 318,565

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$100,000					\$ 100,000
Design		\$20,000				\$ 20,000
Construction			\$100,000	\$100,000		\$ 200,000
						\$ -
TOTAL	\$ 100,000	\$ 20,000	\$ 100,000	\$ 100,000	\$ -	\$ 320,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	100%	\$98,565
		\$0
		\$0
Total	100%	\$98,565

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 03006E
Project Name: Sly Park Intertie Lining
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Rice **Board Approval:** 11/08/10

Project Description:

The Sly Park Intertie line is a key component in alleviating shortages during drought conditions and provides operational flexibility. This project includes lining approximately 3.4 miles of 20-inch waterline. The existing waterline was constructed on a fast-track basis in 1977-78 with a bare steel interior that is now corroding. Preliminary design of the project was undertaken in 2004 to identify scope and potential costs. Design and construction has been deferred to delay expenses and is now planned for 2013-2014. The work includes cleaning and lining approximately 3.4 miles of welded steel pipe. The project will extend the life of the pipeline and provide the District greater reliability and operational flexibility to convey potable or raw water between Reservoir 1 and Reservoir A. Lining the Sly Park Intertie will reduce pipe friction, reduce power costs and increase water delivery efficiency.

Basis for Priority:

Necessary to ensure continued water supply reliability as continuing corrosion degradation will eventually lead to increased failures of the pipeline and higher power costs during use.

Project Financial Summary:			
Funded to Date:	\$ 500,000	Expenditures through end of year:	\$ 211,520
Spent to Date:	\$ 211,520	2011-2015 Planned Expenditures:	\$ 3,100,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 3,311,520
Project Balance	\$ 288,480	Additional Funding Required	\$ 2,811,520

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design			\$100,000			\$ 100,000
Construction				\$3,000,000		\$ 3,000,000
						\$ -
TOTAL	\$ -	\$ -	\$ 100,000	\$ 3,000,000	\$ -	\$ 3,100,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments: The project extends the life of a facility and restores the intended design capacity, therefore project is funded by 100% water rates.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 04003E
Project Name: Folsom Lake Intake and Pump Station
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Rice **Board Approval:** 11/08/10

Project Description:

This project involves construction of a new lake intake and pump station facility that will allow EID to supply increasing amounts of raw water to the El Dorado Hills Water Treatment Plant and comply with temperature control requirements. The existing pump station is limited in capacity, subject to high maintenance and material replacement requirements, and cannot provide the temperature control function.

Basis of Design services were initiated in 2009 and will be completed in 2010. Additional geotechnical investigation is planned for 2011. Contract design documents, including full plans and specifications tentatively are scheduled in 2012 and 2013. Construction is scheduled for 2014 and 2015.

Basis for Priority:

The intake portion of the facility will comply with temperature control requirement. The reliability of the existing pump station is in question. A new facility will be needed to transmit additional supplies. The new pump station with expanded capacity will be necessary to provide an adequate and reliable supply of raw water to satisfy future demands.

Project Financial Summary:			
Funded to Date:	\$ 4,881,811	Expenditures through end of year:	\$ 2,326,152
Spent to Date:	\$ 1,826,152	2011-2015 Planned Expenditures:	\$ 40,000,000
Cash flow through end of year:	\$ 500,000	Total Project Estimate:	\$ 42,326,152
Project Balance	\$ 2,555,659	Additional Funding Required	\$ 37,444,341

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$500,000	\$1,000,000	\$500,000			\$ 2,000,000
Construction Costs				\$19,000,000	\$19,000,000	\$ 38,000,000
						\$ -
TOTAL	\$ 500,000	\$ 1,000,000	\$ 500,000	\$ 19,000,000	\$ 19,000,000	\$ 40,000,000

Funding Sources	Percentage	2011 Funding Amount
To be determined		\$0
		\$0
		\$0
Total	0%	\$0

Funding Comments: The District is evaluating funding options for construction of the project

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 04004E
Project Name: Monte Vista Tank & Watermain Replacement
Project Category: Reliability & Service Level Improvements

Priority: 1 **PM:** Rice **Board Approval:** 11/08/10

Project Description:

This project consists of the replacement of an aging and undersized storage tank and associated piping located in the Salmon Falls area of El Dorado Hills. The existing 8-inch pipeline that feeds the tank is exposed in two areas and requires replacement. The extent of the pipeline replacement will be evaluated further. The existing bolted steel tank and pipeline are old and showing signs of failure, which represents a liability for the District. The existing 130,000 gallon tank would be demolished and replaced with a larger welded steel tank that will satisfy fire flow and emergency storage requirements at the existing site, or a more suitable location. The 2002 Storage Evaluation Report recommends 600,000 gallons of storage capacity to accommodate buildout conditions. District goals are to initiate feasibility review in 2011, in-house design in 2012, and construction in 2013. Replacement of the tank is a requirement of the CDPH Compliance Order.

Basis for Priority:

Project is required to protect health and safety and meet requirements of CDPH compliance order.

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 8,657
Spent to Date:	\$ 2,657	2011-2015 Planned Expenditures:	\$ 1,233,325
Cash flow through end of year:	\$ 6,000	Total Project Estimate:	\$ 1,241,982
Project Balance	\$ 41,343	Additional Funding Required	\$ 1,191,982

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$50,000					\$ 50,000
Design		\$200,000				\$ 200,000
Construction Costs			\$983,325			\$ 983,325
						\$ -
TOTAL	\$ 50,000	\$ 200,000	\$ 983,325	\$ -	\$ -	\$ 1,233,325

Funding Sources	Percentage	2011 Funding Amount
EDH Water FCCs	72%	\$6,233
Water Rates	28%	\$2,424
		\$0
Total	100%	\$8,657

Funding Comments: Funding split has been estimated based on the ratio of existing connections to future connections.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 04008E
Project Name: Highway 49 Intertie Improvements
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** **Board Approval:** 11/08/10

Project Description:

The Highway 49 Intertie serves as an important means to transmit water from the northern El Dorado Main (EDM) system to the southern Diamond Springs Main (DSM) system. The Highway 49 Intertie is mostly comprised of 12" waterline, however a segment of the Intertie is 6" and 8" diameter. This reduction in pipe diameter creates a bottleneck that significantly reduces the capacity of the Intertie. This project replaces the bottleneck in the Highway 49 Intertie to improve the flow of water through the transmission system. The project involves the replacement of approximately 2,000 ft of 6-inch waterline with a new 12-inch waterline in Highway 49 near Diamond Springs and a new 18-inch waterline in Diamond Springs Parkway. Increasing water demands require increased transmission capacity to provide adequate service. The Highway 49 Intertie is a crucial transmission main used to supplement the DSM during high flow periods. Increasing the capacity of the line will improve the reliability and redundancy of the overall transmission system. The project is anticipated to be included in the DOT/Caltrans Diamond Springs Parkway improvements, therefore schedule is based on current estimate from DOT which is currently 2014 for construction.

Basis for Priority:

Limited system reliability and transmission capacity, with increased risk of water outages in the event of line breaks.

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 29,620
Spent to Date:	\$ 29,620	2011-2015 Planned Expenditures:	\$ 1,150,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 1,179,620
Project Balance	\$ 20,380	Additional Funding Required	\$ 1,129,620

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design		\$50,000	\$100,000			\$ 150,000
Construction Costs				\$1,000,000		\$ 1,000,000
						\$ -
TOTAL	\$ -	\$ 50,000	\$ 100,000	\$ 1,000,000	\$ -	\$ 1,150,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	50%	\$0
Water rates	50%	\$0
		\$0
Total	100%	\$0

Funding Comments: This project increases transmission capacity and improves reliability of the existing water transmission system, therefore funding is split between water FCCs and rates.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 04009E
Project Name: Oakridge Pump Station
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Sullivan **Board Approval:** 11/08/10

Project Description:

The Oakridge Pump Station is needed to increase water supply to the Western Region from Folsom Lake by pumping from El Dorado Hills to the Bass Lake Tanks and supplement the water supply from the Gold Hill Intertie. The basic components of the project consist of construction of a new pump station at the Oakridge Tank site. The area of Upper Serrano and portions of Cameron Park are planned to be served from additional water supplies from Folsom Lake. Currently these areas are served from the Gold Hill Intertie (GHI). As the demands increase, the GHI will not be able to provide the necessary water. The new water supply for these areas may come from Folsom Lake. Pumping from the Oakridge Tank site to the Bass Lake Tanks, via the GHI is a means to provide these areas with the additional water supply.

Design was completed in 2010, however construction of this project has been deferred due to budgetary constraints and the slowdown in growth.

Basis for Priority:

This project is necessary to provide sufficient water supply to the District's service areas.

Project Financial Summary:			
Funded to Date:	\$ 523,564	Expenditures through end of year:	\$ 523,564
Spent to Date:	\$ 508,472	2011-2015 Planned Expenditures:	\$ 7,188,680
Cash flow through end of year:	\$ 15,092	Total Project Estimate:	\$ 7,712,244
Project Balance	\$ -	Additional Funding Required	\$ 7,188,680

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design			\$50,000			\$ 50,000
Construction Costs				\$3,569,340	\$3,569,340	\$ 7,138,680
						\$ -
TOTAL	\$ -	\$ -	\$ 50,000	\$ 3,569,340	\$ 3,569,340	\$ 7,188,680

Funding Sources	Percentage	2011 Funding Amount
All District Water FCCs	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments: This project provides additional capacity for new connections District wide, therefore funding is 100% FCC's.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 05002E
Project Name: EDHWTP Expansion to 26 mgd
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

The EDHWTP 26 mgd expansion project was split into two phases. The first phase addressed critical improvements that were completed in 2008. These improvements largely included installation of a flash mixer, piping to eliminate hydraulic restrictions, and installation of prepurchased equipment such as surge bladder tank, switchboard, VFDs. The second phase include regulatory, process and reliability type improvements and include increasing the reliability of the raw water intake and increase the size of the raw water head tank, improve hydraulics onto the filters, enhance the backwash system, modify the chemical feed system, convert from chlorine gas to sodium hypochlorite for disinfection. Due to the slowdown in development, the District was able to defer approximately \$10 million in construction costs by eliminating capacity related improvements from the current phase of the project. This project is currently under construction and estimated to be completed by November 2010. However, Lake Pump No. 106 failed and will need to be removed from the pump skid by a diving team during low lake levels, repaired and reinstalled on the pump skid on the lake bottom. Also, due to improvements to the adjacent Lake Forest Park, the existing WTP fence can be easily breeched and needs to be replaced with an 12- foot micromesh fence topped with barbed wire to prevent unauthorized access.

Basis for Priority:

This project, which is currently under construction is required by CDPH to increase the permitted capacity of the EDHWTP from 19.5 to 26 mgd and included mandated regulatory and reliability improvements.

Project Financial Summary:			
Funded to Date:	\$ 17,484,019	Expenditures through end of year:	\$ 16,335,354
Spent to Date:	\$ 16,110,354	2011-2015 Planned Expenditures:	\$ 100,000
Cash flow through end of year:	\$ 225,000	Total Project Estimate:	\$ 16,435,354
Project Balance	\$ 1,148,665	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 100,000					\$ 100,000
						\$ -
TOTAL	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	65%	\$0
Replacement Reserves	35%	\$0
		\$0
Total	100%	\$0

Funding Comments: Portion of project includes regulatory and reliability components for existing customers

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 06004G
Project Name: SMUD / El Dorado Agreement Water Rights
Project Category: Regulatory Requirements

Priority: 1 PM: Cumpston Board Approval: 11/08/10

Project Description:

The Sacramento Municipal Utility District and El Dorado County interests, including EID, signed an agreement that allows for the use of SMUD's UARP reservoirs for county water storage. The agreement did not include water rights. The transfer of City of Sacramento's or related water rights is the most logical and application has been made to the SWRCB for that change. The SMUD/El Dorado Agreement provides EID with 30,000 acre feet of storage annually up to 2030. Thereafter, 40,000 acre feet of storage annually is provided. Additionally the agreement allows for the banking of up to 15,000 acre feet for drought carryover storage in dry year conditions.

EID is a party to a cost share agreement with the El Dorado Water and Power Authority (EDWPA) to pursue the water rights for the SMUD/El Dorado Agreement. EID's commitment was for the three years (2007-2010) -- initial funding of \$1,200,000, plus \$225,000 per year thereafter. Staff costs are in addition to the cost-share agreement commitments. Additionally the one-time purchase of the 15,000 acre feet of drought storage is also being pursued for 2011-2012.

Basis for Priority:

The Board of Directors approved the EDWPA cost share agreement in 2007 and its commitment of funding (2007 - 2014). The Board has also backed the effort to acquire the 15,000 acre feet of drought storage, shown in 2011 and 2012.

Project Financial Summary:			
Funded to Date:	\$ 1,910,000	Expenditures through end of year:	\$ 1,863,857
Spent to Date:	\$ 1,863,857	2011-2015 Planned Expenditures:	\$ 1,950,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 3,813,857
Project Balance	\$ 46,143	Additional Funding Required	\$ 1,903,857

Description of Work	Estimated Annual Expenditures					
	2011	2012	2013	2014	2015	Total
Study/Planning	\$600,000	\$600,000	\$250,000	\$250,000	\$ 250,000	\$ 1,950,000
Design						\$ -
Construction						\$ -
15,000 af acquisition						\$ -
TOTAL	\$ 600,000	\$ 600,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,950,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	100%	\$553,857
		\$0
		\$0
Total	100%	\$553,857

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 06005E
Project Name: Jenkinson Lake Intake Protective Measures
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

The Department of Public Health (CDPH) has required improvements be made to protect the intake area of the lake from recreational use. The intake delivers water directly to the Sly Park (Reservoir A) Water Treatment Plant. CDPH has established general guidelines that include providing a closed zone within which all recreational use is prohibited within 500 feet of the intake. In order to restrict recreational use around this area, the District installed approximately 2,500 feet of fencing along the shoreline on either side of the intake in late 2007. The last improvement required by CDPH is to install a new buoy line that extends across the lake and attached to anchors imbedded in the footing of the fence endposts located on the west and east side of the cove created by Dam No. 2 and installed by 2012. Section 115842 of the California Code of Regulations granted EID an exemption allowing body-contact recreation activity at Jenkinson Lake. CDPH is requiring these improvements in order to protect the intake area from recreational use as a condition of a permit amendment.

Basis for Priority:

The installation of the new bouy line is a CDPH requirement and was deferred with CDPH approval

Project Financial Summary:			
Funded to Date:	\$ 175,000	Expenditures through end of year:	\$ 141,100
Spent to Date:	\$ 141,100	2011-2015 Planned Expenditures:	\$ 150,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 291,100
Project Balance	\$ 33,900	Additional Funding Required	\$ 116,100

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design		\$ 30,000	\$ 20,000			\$ 50,000
Construction			\$ 100,000			\$ 100,000
						\$ -
TOTAL	\$ -	\$ 30,000	\$ 120,000	\$ -	\$ -	\$ 150,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments: This project is for increased security and protection of existing water supplies.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 06010E
Project Name: Integrated Water Resources Plan
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Megerdigian **Board Approval:** 11/08/10

Project Description:

The District currently has separate master plan documents for drinking water supply, recycled water, and wastewater. An Integrated Water Resources Plan will serve to update these documents and combine them into a plan that integrates the District's total water resources. The plan will include updating water demand forecasts, demand management and conservation options, evaluation of existing supplies, evaluation of new water supply options including surface water supply, conjunctive use and recycled water. The plan also addresses environmental impacts and economic feasibility. Public involvement and stakeholder participation has begun and two stakeholder meetings have been held. The scope also includes development of a water system hydraulic model that will be used for planning, development and system capacity analysis purposes.

This project is to fund costs for consulting services and in-house labor. A contract was awarded to HDR in January 2009 to complete this work.

Basis for Priority:

This is an on-going project and updates and integration of the District's master plans are needed to plan for and manage the District's capital improvement program.

Project Financial Summary:			
Funded to Date:	\$ 619,695	Expenditures through end of year:	\$ 568,108
Spent to Date:	\$ 368,108	2011-2015 Planned Expenditures:	\$ 50,000
Cash flow through end of year:	\$ 200,000	Total Project Estimate:	\$ 618,108
Project Balance	\$ 51,587	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 50,000					\$ 50,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	Percentage	2011 Funding Amount
All District Water FCCs	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments: The purpose of the IRP is to identify sources of new water and related facilities to serve future growth.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 06069E
Project Name: Outingdale WTP Improvements
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Sullivan **Board Approval:** 11/08/10

Project Description:

The project involves the evaluation of the Outingdale water treatment plant, distribution system and raw water diversion facilities for compliance with existing and future regulations and identification of capital improvements. The evaluation will include the alternative of extending a waterline from the District's contiguous system to serve Outingdale, and abandonment of the water treatment plant, versus upgrading of the existing facilities, including improved solids handling system improvements. Compliance with existing and future treatment regulations is required. Also included is evaluation of upgrading the existing SCADA system to current District standards.

Basis for Priority:

CDPH has noted various reliability concerns with the water treatment plant.

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 5,137
Spent to Date:	\$ 5,137	2011-2015 Planned Expenditures:	\$ 75,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 80,137
Project Balance	\$ 44,863	Additional Funding Required	\$ 30,137

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$75,000					\$ 75,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ 75,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$30,137
		\$0
		\$0
Total	100%	\$30,137

Funding Comments: The project at this time is replacement and upgrade of an existing facility with no planned increase in capacity, therefore funding is 100% water rates. SRF funding may be available.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 06074E
Project Name: Folsom Lake Raw Water Transmission Main
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Rice **Board Approval:** 11/08/10

Project Description:

This project involves construction of a new raw water pipeline, approximately 5,500 linear feet from the raw water pump station to the EDHWTP. Currently a combination 30-inch and 24-inch diameter pipeline is used to convey raw water from Folsom Lake to the EDHWTP. As water treatment capacity is expanded in El Dorado Hills beyond 26 mgd, a new parallel pipeline will be needed to increase the raw water transmission capacity.

The Basis of Design Report detailing capacity and alignment options, final recommendations and survey and pothole information to support detailed design, was completed in 2010. The design schedule will be contingent on the rate of growth and service needs in the service area. Construction scheduling will be coordinated with and completed immediately prior to the Folsom Lake Intake and Pump Station project.

Basis for Priority:

Project is necessary to meet the demands of increasing growth within the El Dorado Hills and Cameron Park service areas.

Project Financial Summary:			
Funded to Date:	\$ 460,224	Expenditures through end of year:	\$ 329,121
Spent to Date:	\$ 329,121	2011-2015 Planned Expenditures:	\$ 4,600,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 4,929,121
Project Balance	\$ 131,103	Additional Funding Required	\$ 4,468,897

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design			\$100,000			\$ 100,000
Construction Costs				\$3,000,000	\$1,500,000	\$ 4,500,000
						\$ -
TOTAL	\$ -	\$ -	\$ 100,000	\$ 3,000,000	\$ 1,500,000	\$ 4,600,000

Funding Sources	Percentage	2011 Funding Amount
All District Water FCCs	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments: This project increases capacity for new development, therefore funding is 100% FCCs.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 06075E
Project Name: Serrano Transmission Main
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Sullivan **Board Approval:** 11/08/10

Project Description:

Construction of a new 18-inch pipeline with an approximate length of 3,500 linear feet to increase transmission capacity from the new Oak Ridge Pump Station to the Bass Lake Tanks. The Serrano Transmission Main (in combination with the Oak Ridge Pump Station Project No. 06083E) is needed to increase water supply to the Western Region by pumping Folsom supplies from El Dorado Hills to the Bass Lake Tanks service area, supplementing the water supply from the Gold Hill Intertie.

Design has been placed on hold until necessary. Construction of this project has been deferred until 2014 or until budgetary constraints or growth dictate a resumption of this project.

Basis for Priority:

This project is necessary to provide sufficient water supply to the service area.

Project Financial Summary:			
Funded to Date:	\$ 489,789	Expenditures through end of year:	\$ 458,633
Spent to Date:	\$ 458,633	2011-2015 Planned Expenditures:	\$ 2,000,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 2,458,633
Project Balance	\$ 31,156	Additional Funding Required	\$ 1,968,844

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction					\$ 2,000,000	\$ 2,000,000
						\$ -
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000	\$ 2,000,000

Funding Sources	Percentage	2011 Funding Amount
All District Water FCCs	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments: This project provides additional capacity for new connection District wide, therefore funding is 100% FCC's.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 07033E
Project Name: Sly Park Dams Evaluation
Project Category: Regulatory Requirements

Priority: 1 **PM:** Eymann **Board Approval:** 11/08/10

Project Description:

DSOD requires that the District evaluate Sly Park Dams to determine if a "Finding of Safety" (FOS) can be made. The District submitted the FOS report in March 2008 determining that the dams are safe for unrestricted use. EID is waiting for DSOD to complete their review of the FOS report. It is possible that DSOD may have additional evaluation or construction requirements which would arise out of their review. DSOD has shared initial findings with staff (on 9/15/10) indicating that DSOD will be certifying the Main and Auxiliary Dams, but they will require that new piezometers be installed in the Main Dam and the Auxiliary Dam. Staff has not received the formal letter yet and will develop a detailed plan and schedule upon receipt.

Basis for Priority:

Non-compliance with DSOD requirements, thus no certification issued.

Project Financial Summary:

Funded to Date:	\$ 120,000	Expenditures through end of year:	\$ 92,167
Spent to Date:	\$ 89,167	2011-2015 Planned Expenditures:	\$ 325,000
Cash flow through end of year:	\$ 3,000	Total Project Estimate:	\$ 417,167
Project Balance	\$ 27,833	Additional Funding Required	\$ 297,167

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 10,000					\$ 10,000
Design	\$ 15,000					\$ 15,000
Construction		\$ 300,000				\$ 300,000
						\$ -
TOTAL	\$ 25,000	\$ 300,000	\$ -	\$ -	\$ -	\$ 325,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments: This project is an evaluation of an existing facility for compliance with regulatory requirements, therefore funding is 100% water rates.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 08021E
Project Name: Pressure Reducing Station Replacement Program
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Strahan **Board Approval:** 11/08/10

Project Description:

An annual program to remove, replace or upgrade deteriorating pressure reducing stations to maintain service reliability throughout the District. For 2011, improvements for flow control at Upper Baumhoff PRS, GHI 6 PRS and Reservoir 9 flow control are scheduled. The Baumhoff PRS, which consists of two stations in one, has reached the end of its service life and is in need of complete replacement including valves, piping, housing, and all other equipment. Both Reservoir 9 and GHI 6 PRS will have telemetry improvements for remote operation.

Basis for Priority:

Existing stations are causing restrictions of pressure and flow in an areas where it is not needed and continued maintenance costs on equipment that do not provide any additional service reliability due to other system improvements.

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 5,070
Spent to Date:	\$ 5,070	2011-2015 Planned Expenditures:	\$ 380,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 385,070
Project Balance	\$ 44,930	Additional Funding Required	\$ 335,070

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$30,000	\$5,000	\$5,000	\$5,000		\$ 45,000
Construction Costs	\$230,000	\$35,000	\$35,000	\$35,000		\$ 335,000
						\$ -
TOTAL	\$ 260,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ -	\$ 380,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$40,000
Water FCCs	0%	\$0
		\$0
Total	100%	\$40,000

Funding Comments: Funding source will be evaluated for each project with respect to existing vs. new customers.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 08022E
Project Name: Pump Station Improvement Program
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Rice **Board Approval:** 11/08/10

Project Description:

The District has several small to medium sized pump stations throughout the service area that operate to increase pressures to a small number of customers at higher elevations. This is an annual program to upgrade pump stations that have deteriorated or reached the end of their service life. Pump stations at Reservoir 8 and Swansboro Tank are planned for 2011 upgrades to supply the necessary pressure and flow to their respective service areas, and to comply with fire flow requirements where needed. Replacement components include pumps, pressure tank, pressure switches, valves, yard piping, SCADA equipment and possibly building upgrades to accommodate larger equipment.

Funding for the remainder of 2010 includes initial feasibility level study and prioritization of pump stations for replacement and upgrades which will begin in 2011.

Basis for Priority:

Potential interruption to service throughout the District in the event of failures and continued use of expiring equipment that may pose a threat to the health and safety of customers, employees, and the public.

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 54,804
Spent to Date:	\$ 46,804	2011-2015 Planned Expenditures:	\$ 560,000
Cash flow through end of year:	\$ 8,000	Total Project Estimate:	\$ 614,804
Project Balance	\$ (4,804)	Additional Funding Required	\$ 564,804

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$50,000		\$20,000	\$ 20,000	\$ 20,000	\$ 110,000
Construction Costs		\$150,000	\$100,000	\$ 100,000	\$ 100,000	\$ 450,000
						\$ -
TOTAL	\$ 50,000	\$ 150,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 560,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	50%	\$27,402
Water FCCs	50%	\$27,402
		\$0
Total	100%	\$54,804

Funding Comments: Funding source will be evaluated for each project with respect to new capacity made available.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 08029E
Project Name: GHI Relocation at Tennessee Creek
Project Category: State/County Road Projects
Priority: 1 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

El Dorado County Department of Transportation (DOT) is replacing the Tennessee Creek Bridge, which includes widening and realigning Green Valley Road between Kenworth Drive and Rose Springs Lake. Approximately 940 feet of the Gold Hill Intertie (GHI) and a 6-inch distribution pipeline must be removed and replaced within the realigned roadway due to grade conflicts. DOT and the District have entered into a reimbursement agreement to share the cost of relocating the two waterlines. The entire length of the 6-inch distribution pipeline and 300 linear feet of the GHI will be paid for by DOT because the District has prior land rights. Approximately 640 linear feet of the GHI will be paid by the District because it is located within the county right-of-way.

Basis for Priority:

El Dorado County DOT bridge replacement project requires that District facilities must be relocated at District expense to maintain water service to our existing customers. El Dorado County has delayed the project to 2011/12

Project Financial Summary:			
Funded to Date:	\$ 95,000	Expenditures through end of year:	\$ 61,118
Spent to Date:	\$ 56,118	2011-2015 Planned Expenditures:	\$ 460,000
Cash flow through end of year:	\$ 5,000	Total Project Estimate:	\$ 521,118
Project Balance	\$ 33,882	Additional Funding Required	\$ 426,118

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$ 10,000					\$ 10,000
Construction	\$ 400,000	\$ 50,000				\$ 450,000
						\$ -
TOTAL	\$ 410,000	\$ 50,000	\$ -	\$ -	\$ -	\$ 460,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$376,118
		\$0
		\$0
Total	100%	\$376,118

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 09006E
Project Name: Blakeley Reservoir Improvements
Project Category: Regulatory Requirements
Priority: 1 **PM:** Eymann **Board Approval:** 11/08/10

Project Description:

Annual cycling of the outlet works at Blakeley reservoir are required by DSOD, and by best dam safety management practices. The channel downstream of the outlet works has not been maintained as it is part of the unused ditch system and is accordingly no longer adequate to convey normal operational releases. ROV inspections are planned for late 2010 to determine what steps will be required to mitigate this issue. Construction cost estimates will be developed after a determination is made. In order to cycle the release valve without conveying significant volumes of water, a downstream valve and slip lining of the outlet conduit may be required.

Basis for Priority:

The remediation is required by DSOD in order to safely convey outlet works discharges.

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 42,921
Spent to Date:	\$ 7,921	2011-2015 Planned Expenditures:	\$ 380,000
Cash flow through end of year:	\$ 35,000	Total Project Estimate:	\$ 422,921
Project Balance	\$ 7,079	Additional Funding Required	\$ 372,921

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$ 130,000					\$ 130,000
Construction		\$ 250,000				\$ 250,000
						\$ -
TOTAL	\$ 130,000	\$ 250,000	\$ -	\$ -	\$ -	\$ 380,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$122,921
		\$0
		\$0
Total	100%	\$122,921

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 09007E
Project Name: Update Design and Construction Standards
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Sullivan **Board Approval:** 11/08/10

Project Description:

This project will update the Water, Sewer and Recycled Water Design & Construction Standards including the technical specifications. Formatting, text updates and drawing revisions will be performed. The current Water, Sewer and Recycled Water Design & Construction Standards including the technical specifications were last updated in 1999. Acceptable products and methodology have changed since the last edition. There are numerous changes to drawings being submitted by EID staff to be included in the update. The current format is not compatible with industry standards and consequently many of the engineering firms hired by EID reformat to industry standards when preparing specifications and bid documents which adds to our cost.

Basis for Priority:

In an effort to protect and preserve the health and safety of customers, employees and the public, EID must utilize and require current construction methodologies to ensure increased service reliability.

Project Financial Summary:			
Funded to Date:	\$ 80,000	Expenditures through end of year:	\$ 63,335
Spent to Date:	\$ 58,335	2011-2015 Planned Expenditures:	\$ 50,000
Cash flow through end of year:	\$ 5,000	Total Project Estimate:	\$ 113,335
Project Balance	\$ 16,665	Additional Funding Required	\$ 33,335

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 25,000					\$ 25,000
Design	\$ 25,000					\$ 25,000
Construction						\$ -
						\$ -
TOTAL	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	50%	\$16,667
Wastewater FCCs	50%	\$16,667
		\$0
Total	100%	\$33,335

Funding Comments: Water and wastewater FCCs since the standards serve new developer projects.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 10009
Project Name: Waterline Replacement Program
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Rice **Board Approval:** 11/08/10

Project Description:

This program consists of targeted replacement of leaking waterlines, including recently accepted private waterlines within the District. The construction division has prioritized several small waterlines that have experienced several breaks or large leaks that have required multiple repairs. This multi-year program provides funding to replace problem waterlines in the distribution system. Project will result in improvements in system reliability and reduced water losses.

This project has been rolled over from the preceeding project number of 07016E.01.

Funding for 2010 includes the current Keating waterline replacement work that will be completed in 2010. Projects being prioritized for 2011 include portions of the 9,900 LF 'Volz' waterline which serves both residential and agricultural connections.

Basis for Priority:

Continued line breaks that affect the supply and quality of water to our customers and increased maintenance costs to continuously repair these lines. This project is required to protect and preserve the health and safety of customers, employees and the public.

Project Financial Summary:			
Funded to Date:	\$ 178,200	Expenditures through end of year:	\$ 202,078
Spent to Date:	\$ 102,078	2011-2015 Planned Expenditures:	\$ 690,000
Cash flow through end of year:	\$ 100,000	Total Project Estimate:	\$ 892,078
Project Balance	\$ (23,878)	Additional Funding Required	\$ 713,878

Description of Work	Estimated Annual Expenditures					
	2011	2012	2013	2014	2015	Total
Study/Planning	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000
Design	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000
Construction	\$ 120,000	\$ 120,000	\$ 160,000	\$ 120,000	\$ 120,000	\$ 640,000
						\$ -
TOTAL	\$ 130,000	\$ 130,000	\$ 170,000	\$ 130,000	\$ 130,000	\$ 690,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$153,878
		\$0
		\$0
Total	100%	\$153,878

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 10015
Project Name: Water System Upgrades
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Strahan **Board Approval:** 11/08/10

Project Description:

Capital improvements to water distribution infrastructure. These improvements help meet regulatory compliance and water use accountability. In 2010, this includes the purchase of a remote water fill station as part of a 50/50 grant with USBR. This station will improve water system security and protection from cross contamination by temporary water customers. Stage 2 of the Disinfectants/Disinfection By-Product Rule (Stage 2) establishes new health goals for the reduction and control of disinfection by-product (DBP) formation. To meet these health goals, distribution operators determine through water quality testing where in the distribution system water age has resulted or could result in elevated DBP formation and then conduct routine manual flushing to reduce water age. Auto flushers will reduce staff time and enable staff to have better control over routine flushing, resulting in better accountability and conservation of water used for routine water quality system flushing while ensuring compliance with water regulations. Installed cost estimate is \$5,000 to \$10,000 each depending on location. A goal of 5 to 10 auto flush stations per year is desired.

Basis for Priority:

Improve reliability and service level in the water distribution system. Work force efficiency.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 300,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 300,000
Project Balance	\$ -	Additional Funding Required	\$ 300,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction	\$50,000	\$100,000	\$100,000	\$50,000		\$ 300,000
						\$ -
TOTAL	\$ 50,000	\$ 100,000	\$ 100,000	\$ 50,000	\$ -	\$ 300,000

Funding Sources	Percentage	2011 Funding Amount
Water Reserves	100%	\$50,000
		\$0
		\$0
Total	100%	\$50,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: 89069E
Project Name: Water Rights for 17,000 Acre Feet
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Cumpston **Board Approval:** 11/08/10

Project Description:

The State Water Resources Control Board tentatively awarded 17,000-acre feet of new water rights to EID and EDCWA in October 1996. The sources of the water are from the Project 184 storage lakes and South Fork American River. The State Board awarded the water rights on August 16, 2001 with numerous conditions. The District challenged the Term 91 condition. District has won a 2006 court decision overturning the Term 91 condition. A USBR Long Term Warren Act contract is needed to use Folsom Reservoir as a point of diversion. Application has been made to the USBR. An EIR/EIS is required and will be completed in 2010 or early 2011. It is the goal to get approval of the Long Term Warren Act Contract in 2011. Water rights, along with treatment and conveyance improvements, will allow for new EDU's and with the associated FCC's, to fund the improvements. This achieves the District goal of developing a project that will provide reliable water sources to meet present and future County approved growth.

Basis for Priority:

The District made application to the USBR in July 2004 for a 40-year Warren Act Contract. Approval by the USFWS has occurred. NOAA Fisheries approval is near. Final approval of the contract by USBR may depend upon the status of Delta litigation and environmental issues. Final approval of the Warren Act Contract is expected in 2011.

Project Financial Summary:			
Funded to Date:	\$ 2,924,414	Expenditures through end of year:	\$ 2,938,351
Spent to Date:	\$ 2,823,351	2011-2015 Planned Expenditures:	\$ 50,000
Cash flow through end of year:	\$ 115,000	Total Project Estimate:	\$ 2,988,351
Project Balance	\$ (13,937)	Additional Funding Required	\$ 63,937

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$50,000					\$ 50,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	100%	\$63,937
		\$0
		\$0
Total	100%	\$63,937

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: NEW
Project Name: Corrosion Control Technologies Bench Study
Project Category: Regulatory Requirements

Priority: 1 PM: Strahan Board Approval: 11/08/10

Project Description:

Current corrosion control treatment technology (CCTT) employed by EID to protect the drinking water system infrastructure and control potential lead and copper levels within household plumbing systems was evaluated in 2009. The evaluation resulted in a recommendation to change the current CCTT to a practice that will eliminate zinc residuals within the system while still protecting the interior infrastructure of EID's pipes and storage system. In order to assess the effectiveness of CCTT alternatives, a bench study must be completed to determine what potential impacts could be experienced before deploying the preferred technology to the drinking water system.

Basis for Priority:

Regulatory compliance.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 150,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 150,000
Project Balance	\$ -	Additional Funding Required	\$ 150,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 150,000					\$ 150,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$150,000
		\$0
		\$0
Total	100%	\$150,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: NEW
Project Name: Critical Asset Security System (HSGP Grant Reimb)
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Strahan **Board Approval:** 11/08/10

Project Description:

The District has received approval from the El Dorado County Grant Approval Authority (the multi-agency body responsible for evaluating and awarding local Homeland Security and emergency management grants) to receive 100% funding for defined critical asset security systems on a reimbursement basis. Installation includes security monitoring equipment at specific potable water facilities to provide effective detection and response elements to provide protection for the community water supply.

Basis for Priority:

The Homeland Security Grant Program (HSGP) requires that the District fund and manage and complete the project in 2011. Upon completion the County of El Dorado will provide a \$39,000 reimbursement to the District.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 50,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 50,000
Project Balance	\$ -	Additional Funding Required	\$ 50,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 50,000					\$ 50,000
						\$ -
TOTAL	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$50,000
		\$0
		\$0
Total	100%	\$50,000

Funding Comments: The District will be reimbursed \$39,000 from the County of El Dorado-Sheriff OES.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: NEW
Project Name: Ditch Water Rights SCADA Upgrades
Project Category: Regulatory Requirements

Priority: 1 PM: Strahan Board Approval: 11/08/10

Project Description:

In August 2010, the District and USBR executed a Warren Act Contract for the Rediversion of the Ditch Water Rights. A requirement of that contract is to report diversions at several gaging stations to the USBR on a regular basis. In order to provide accurate and reliable diversion data, the gage stations known as S42, H2, W5, and W4 require upgrading to automation. The automation upgrades consist of installation of telemetry equipment and SCADA.

Basis for Priority:

Since the Warren Act has been signed, the District is required to report to the USBR. Upgrading the SCADA at the gage stations will provide reliable and accurate reporting.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 40,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 40,000
Project Balance	\$ -	Additional Funding Required	\$ 40,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 40,000					\$ 40,000
						\$ -
TOTAL	\$ 40,000	\$ -	\$ -	\$ -	\$ -	\$ 40,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$40,000
		\$0
		\$0
Total	100%	\$40,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: NEW
Project Name: DOT Construction Projects - Water
Project Category: State/County Road Projects

Priority: 1 **PM:** Rice **Board Approval:** 11/08/10

Project Description:

The Board has directed staff to streamline contracting procedures with the El Dorado County Department of Transportation (DOT) and City of Placerville for the two agencies' joint projects. EID has many water and sewer lines in roads maintained by the El Dorado County Department of Transportation (DOT). From time to time, DOT initiates a road project where either the EID water, wastewater or recycled waterlines need to be relocated or upgraded, which presents opportunities to join forces with DOT in the project by simultaneously upgrading and/or relocating our facilities. EID and DOT staff have identified several methods to improve mutual co-operation in conducting County road construction projects that impact EID facilities.

Basis for Priority:

Projects are required by law, regulation, contract, agreement or license. This includes projects required to meet requirements imposed by federal, State, or local governments. This also includes relocation of District facilities necessitated by State or County road improvements.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	\$ 8,000
Spent to Date:		2011-2015 Planned Expenditures:	\$ 520,000
Cash flow through end of year:	\$ 8,000	Total Project Estimate:	\$ 528,000
Project Balance	\$ (8,000)	Additional Funding Required	\$ 528,000

Description of Work	Estimated Annual Expenditures					
	2011	2012	2013	2014	2015	Total
Study/Planning						\$ -
Design	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$ 100,000
Construction Costs	\$80,000	\$80,000	\$80,000	\$100,000	\$80,000	\$ 420,000
						\$ -
TOTAL	\$ 100,000	\$ 100,000	\$ 100,000	\$ 120,000	\$ 100,000	\$ 520,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$108,000
		\$0
		\$0
Total	100%	\$108,000

Funding Comments: Funding is 100% rates. Typically work involves replacement or relocation of existing facilities. However, funding split will be further evaluated for each project.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: NEW
Project Name: Fair Lane Water Line Relocation
Project Category: State/County Road Projects

Priority: 1 **PM:** Rice **Board Approval:** 11/08/10

Project Description:

The project involves relocation of 500 LF of existing 8-inch waterline to accommodate subsequent retaining wall construction and City of Placerville sewer relocation as part of the new Western Placerville Freeway Interchange proposed for construction beginning in 2011. The water line relocation needs to occur prior to start of the retaining wall which is one of the very first steps in sequencing construction of the new interchange. The District staff has completed design of the water line relocation and the project is pending final release from the City of Placerville.

This project was previously PN 08019E.05

Basis for Priority:

Projects are required by law, regulation, contract, agreement or license. This includes projects required to meet requirements imposed by federal, State, or local governments. This also includes relocation of District facilities necessitated by State or County road improvements.

Project Financial Summary:			
Funded to Date:	\$ 110,000	Expenditures through end of year:	\$ 8,000
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 140,000
Cash flow through end of year:	\$ 8,000	Total Project Estimate:	\$ 148,000
Project Balance	\$ 102,000	Additional Funding Required	\$ 38,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$8,000	\$0	\$0	\$0	\$0	\$ 8,000
Construction Costs	\$132,000	\$0	\$0	\$0	\$0	\$ 132,000
						\$ -
TOTAL	\$ 140,000	\$ -	\$ -	\$ -	\$ -	\$ 140,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$38,000
		\$0
		\$0
Total	100%	\$38,000

Funding Comments: Funding is 100% rates. Typically work involves replacement or relocation of existing facilities. However, funding split will be further evaluated for each project.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: NEW
Project Name: HWY 49 / Patterson PRS Relocation (DOT)
Project Category: State/County Road Projects

Priority: 1 **PM:** Rice **Board Approval:** 11/08/10

Project Description:

The project involves relocation of existing pressure reducing station (PRS) facilities as part of the County DOT project to widen and install signals at Highway 49 and Patterson Road. DOT and the District are investigating alternatives to allow the PRS to remain in place and reduce District costs.

This project was previously PN 08019E.06

Basis for Priority:

Projects are required by law, regulation, contract, agreement or license. This includes projects required to meet requirements imposed by federal, State, or local governments. This also includes relocation of District facilities necessitated by State or County road improvements.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 200,000
Cash flow through end of year:		Total Project Estimate:	\$ 200,000
Project Balance	\$ -	Additional Funding Required	\$ 200,000

Description of Work	Estimated Annual Expenditures					
	2011	2012	2013	2014	2015	Total
Study/Planning						\$ -
Design	\$20,000					\$ 20,000
Construction Costs	\$180,000					\$ 180,000
						\$ -
TOTAL	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$200,000
		\$0
		\$0
Total	100%	\$200,000

Funding Comments: Funding is 100% rates. Typically work involves replacement or relocation of existing facilities. However, funding split will be further evaluated for each project.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number:

NEW

Project Name:

Main Ditch Assessment - Forebay to Reservoir 1

Project Category:

Reliability & Service Level Improvements

Priority:

1

PM:

Megerdigian

Board Approval:

11/08/10

Project Description:

The Main Ditch is approximately three miles long and conveys a maximum of 15,080 acre-feet of raw water annually at a maximum rate of 40 cubic feet per second from Forebay Reservoir to the Reservoir 1 water treatment plant. Because the Main Ditch is an unlined earthen canal, a portion of the flow is lost to seepage and evaporation. Also, the quality of the water is degraded as the water travels through the ditch; this presents a challenge in meeting drinking water regulations. Previous studies of the ditch have shown that water losses could be as high as 1,300 acre-feet a year, depending on flow rates and weather conditions. This water could be made available for drinking water or annual power generation of about 2,000 MWh. The evaluation will prepare alternatives for the Main Ditch to conserve water and protect public health.

Basis for Priority:

Improves water quality, conserves water supply and protects health and safety of service.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 150,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 150,000
Project Balance	\$ -	Additional Funding Required	\$ 150,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$50,000					\$ 50,000
Design		\$100,000				\$ 100,000
Construction Costs			*	*		\$ -
Land Procurement						\$ -
TOTAL	\$ 50,000	\$ 100,000	\$ -	\$ -	\$ -	\$ 150,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$50,000
		\$0
		\$0
Total	100%	\$50,000

Funding Comments: Staff is seeking grant funding for this project as a water conservation project.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: NEW
Project Name: Main Ditch Remediation - Reservoir 1 to Blakely Reservoir
Project Category: Reliability & Service Level Improvements
Priority: 3 **PM:** Megerdigian **Board Approval:** 11/08/10

Project Description:

A consultant prepared a "Main Ditch Abandonment Feasibility Report" as a result of the extent of erosion on the Main Ditch downstream of the Reservoir 1 Water Treatment Plant. This study identified and prioritized all sections of the Main Ditch from Reservoir 1 to Blakely Reservoir and provided recommendations for remediation options, developed budgetary cost estimates, a timescale for the remediation work, and determined sections which may be suitable for formal abandonment. The next step is implementation in a phased plan over several years. Phase 1 will consist of preparing the construction design and bid documents and environmental documentation for the entire project. Phase 2 will consist of remediation work that has been identified as high and medium priority. Phase 3 will be the remediation work for the remaining portions of the Main Ditch to provide complete abandonment.

The Main Ditch downstream of Reservoir 1 Water Treatment Plant has been eroding since being constructed in the late 1800's. It has eroded to an extent where it is jeopardizing neighboring properties and limiting access to the properties. Property owners have requested that EID remediate the ditch to control the future erosion and restore access to certain properties. Some sections of this ditch are no longer used but still are a maintenance burden. Formal abandonment procedures may need to be started for some sections after completion of the remediation process.

Basis for Priority:

This project is anticipated to be needed, but does not yet have a defined scope or schedules and which we have a significant level of control over schedule.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 200,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 200,000
Project Balance	\$ -	Additional Funding Required	\$ 200,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design		\$200,000				\$ 200,000
Construction Costs			*	*		\$ -
						\$ -
TOTAL	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ 200,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: NEW
Project Name: Reservoir 1 WTP Chlorine Conversion and Backwash Waste Clarification
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Rice **Board Approval:** 11/08/10

Project Description:

This project consists of two critical unit process upgrades related to safety and water quality; 1) Conversion of existing gaseous chlorination storage and feed facilities to liquid sodium hypochlorite feed and 2) addition of a waste stream clarification process to curtail return of waste solids and pathogens from the filter backwash process. Design criteria for both projects to be developed by District staff. Portions of the detailed design are planned for outside consultant, with significant effort still by District engineering staff.

The existing facility does not include any containment or neutralization equipment to mitigate a chlorine gas leak. Conversion to liquid hypochlorite represents elimination of a major potential liability to the District.

Addition of a simple package clarification process will concentrate the waste solids and route them directly to the existing drying beds instead of back to the head of the plant. Improved removal of solids from the treatment process will greatly improve overall plant efficiency and performance. This corrective action is covered by the EPA Filter Backwash Rule.

2011 funding is for feasibility level planning and in-house design development with District operations and maintenance staff. Outside design will include use of structural, geotechnical, and electrical consultants.

Basis for Priority:

Required for compliance with 2003 International Fire Code and 2003 Uniform Fire Code requirements for scrubbing or fully containing gaseous chlorine leaks and protection of public health and safety. The project mitigates continued liability associated with large scale delivery, handling, and storage of chlorine gas.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ 35,000
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 845,000
Cash flow through end of year:	\$ 35,000	Total Project Estimate:	\$ 880,000
Project Balance	\$ (35,000)	Additional Funding Required	\$ 880,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$ 45,000					\$ 45,000
Construction	\$ 550,000	\$ 250,000				\$ 800,000
						\$ -
TOTAL	\$ 595,000	\$ 250,000	\$ -	\$ -	\$ -	\$ 845,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$630,000
		\$0
		\$0
Total	100%	\$630,000

Funding Comments: Project involves no planned increase in capacity, therefore funding is 100% water rates.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: NEW
Project Name: Reservoir A Process Improvements

Project Category: Reliability & Service Level Improvements

Priority: 2 PM: Strahan Board Approval: 11/08/10

Project Description:

This CIP is for the replacement of obsolete motor operated valve actuators and the installation of flow monitoring devices. Eight of the twelve Sly Park WTP filters were installed in 1988 and have been in continuous operation. Each filter has 5 electric motor operated valves that cycle multiple times per day. The valve operators are at the end of their service life and need replacing. In addition, the manufacturer of the valve actuators has informed the District that the actuator model we use is no longer manufactured or supported beyond "stock on hand". This impacts the District's ability to ensure system reliability by relying on obsolete equipment for critical process control. Also included in this CIP is the installation of bi-directional flow meters on each filter. The Surface Water Treatment Rule limits the filter loading of gravity multi-media filters to 6 gallons per minute per square foot filtration rates. To establish the filtration rate, each filter requires a meter to determine the total flow passing through the filter media. In addition, the rate at which the filters are backwashed is also not measured due to the lack of meters. Installation of meters will allow operations staff to ensure compliance with the Surface Water Treatment Rule and optimize filtration and backwash processes.

Funding will also be utilized for rehabilitation of drying beds beginning in 2011.

Basis for Priority:

Unable to validate compliance with Surface Water Treatment Rule maximum filtration rate. Unable to optimize backwash water rate for filter bed cleaning. Continued inefficient operations of filters. Water treatment solids residuals are dewatered utilizing gravity drying beds that have failed and are in need of redesign and rebuild.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 800,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 800,000
Project Balance	\$ -	Additional Funding Required	\$ 800,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$150,000	\$300,000	\$300,000	\$50,000		\$ 800,000
						\$ -
TOTAL	\$ 150,000	\$ 300,000	\$ 300,000	\$ 50,000	\$ -	\$ 800,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$150,000
		\$0
		\$0
Total	100%	\$150,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: NEW
Project Name: Reservoir A WTP Chlorine conversion
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Rice **Board Approval:** 11/08/10

Project Description:

Conversion of existing gaseous chlorination storage and feed facilities to liquid sodium hypochlorite feed. Project design criteria to be developed by District staff and detailed design by outside consultant. The existing facility does not include any containment or neutralization equipment to mitigate a chlorine gas leak.

Basis for Priority:

Required for compliance with 2003 International Fire Code and 2003 Uniform Fire Code requirements for scrubbing or fully containing gaseous chlorine leaks and protection of public health and safety. The project mitigateS continued liability associated with large scale delivery, handling, and storage of chlorine gas.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 1,000,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 1,000,000
Project Balance	\$ -	Additional Funding Required	\$ 1,000,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$50,000					\$ 50,000
Construction Costs		\$150,000	\$800,000			\$ 950,000
						\$ -
TOTAL	\$ 50,000	\$ 150,000	\$ 800,000	\$ -	\$ -	\$ 1,000,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$50,000
		\$0
		\$0
Total	100%	\$50,000

Funding Comments: Project involves no planned increase in capacity, therefore funding is 100% water rates.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: NEW
Project Name: Ridgeview Tank No. 2
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Sullivan **Board Approval:** 11/08/10

Project Description:

This project involves construction of an additional storage tank, rehabilitation of existing storage tank, and upgrade of the existing onsite pump station. Based on estimated average day and maximum day demands at buildout and current fire flow requirements, the future storage required to serve the Ridgeview Tank storage zone is approximately 2,800,000 gallons, which exceeds the current reservoir capacity of 1,000,000 gallons. The existing pump station has exceeded its useful service life and must be replaced to ensure system reliability and regulatory requirements.

Basis for Priority:

To ensure service reliability and satisfy a DHS compliance order for this facility.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 2,350,750
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 2,350,750
Project Balance	\$ -	Additional Funding Required	\$ 2,350,750

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$50,000					\$ 50,000
Design		\$380,750				\$ 380,750
Construction Costs			\$1,920,000			\$ 1,920,000
						\$ -
TOTAL	\$ 50,000	\$ 380,750	\$ 1,920,000	\$ -	\$ -	\$ 2,350,750

Funding Sources	Percentage	2011 Funding Amount
Water Rates	95%	\$47,500
Water FCCs	5%	\$2,500
		\$0
Total	100%	\$50,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: NEW
Project Name: Silva Valley Interchange (DOT)
Project Category: State/County Road Projects

Priority: 1 **PM:** Brink **Board Approval:** 11/08/10

Project Description:

The new Silva Valley Interchange at Hwy 50 has been in the planning stages for many years. El Dorado County DOT plans to fast-track the design to allow advertisement for bid in spring 2011. EID has existing water, recycled water and sanitary sewer utilities in the public right-of-way that must be relocated at EID's cost. The design will be performed by the same consultant DOT is using for the design of the interchange, and the relocations performed by DOT's contractor under a new reimbursement agreement with DOT. The project will also impact an existing recycled water line that is located in a private easement. DOT will pay the full cost of the design and relocation of this facility.

Basis for Priority:

Since we have utilities in the public right of way, EID must relocate them to make way for DOT's project.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 450,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 450,000
Project Balance	\$ -	Additional Funding Required	\$ 450,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ -					\$ -
Design	\$ 100,000					\$ 100,000
Construction	\$ 350,000					\$ 350,000
						\$ -
TOTAL	\$ 450,000	\$ -	\$ -	\$ -	\$ -	\$ 450,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	70%	\$315,000
Wastewater Rates	20%	\$90,000
Recycle. Water Rates	10%	\$45,000
Total	100%	\$450,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: NEW
Project Name: Strawberry WTP Evaluation
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Sullivan **Board Approval:** 11/08/10

Project Description:

Numerous improvements have been identified by the operations staff. Evaluation and planning work will be performed to determine the improvements and environmental requirements. Design work will follow in preparation for improvements in future years. A partial list includes: repair or replace the backwash tank, replace existing river intake pumps, install generator containment area.

Basis for Priority:

Project maintains the existing assets and improves water quality and reliability of supply.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 150,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 150,000
Project Balance	\$ -	Additional Funding Required	\$ 150,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$100,000	\$50,000				\$ 150,000
Construction						\$ -
						\$ -
TOTAL	\$ 100,000	\$ 50,000	\$ -	\$ -	\$ -	\$ 150,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$100,000
		\$0
		\$0
Total	100%	\$100,000

Funding Comments: This project improves the existing plant with no increase in capacity, therefore funding is 100% Rates.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: NEW
Project Name: SUMMERFIELD DITCH
Project Category: Regulatory Requirements

Priority: 1 PM: Megerdigian Board Approval: 11/08/10

Project Description:

The District has a legal obligation to provide water to Finnon Lake upon its restoration by the Mosquito Volunteer Fire Department, which is scheduled for completion by 2012. This obligation was conveyed to the District with the annexation of the Mosquito Area. EID held a public workshop in August 2002 at the Mosquito Fire Department to discuss the status of the Summerfield Ditch and the Slab Creek water rights which have now been transferred to Folsom Lake. A citizens committee was formed as a result of the workshop and staff worked with this committee until early 2004. Of concern to the committee was that only one source of water, the cross canyon pipeline, would be available for all current and future demands, including Finnon Lake, as well as fire protection and other emergencies. At the end of this process, EID staff offered the construction of a second potable water storage tank in the future to meet buildout demands. The Board concurred with staff at the April 19, 2004 Board Meeting for proposed future storage for the Mosquito Area at some time in the future. In order to meet the Finnon Lake water obligations, infrastructure needs to be constructed to provide either treated or raw water. Staff will investigate 2 options: construction of about 15,000 LF of pipeline to convey raw water, or a much shorter pipeline connected to the treated water system to fulfill this contractual obligation. Along with providing a water system to supply Finnon Lake, the unused wells will be abandoned. In the future when buildout is nearing, staff will review the need for the storage tank.

Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 100,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 100,000
Project Balance	\$ -	Additional Funding Required	\$ 100,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 25,000					\$ 25,000
Design						\$ -
Construction	\$ 75,000					\$ 75,000
						\$ -
TOTAL	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$100,000
		\$0
		\$0
Total	100%	\$100,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: NEW
Project Name: Water Rights Optimization
Project Category: Master Planning

Priority: 1 PM: Megerdigian Board Approval: 11/08/10

Project Description:

This Study is to evaluate various options and provide recommendations for the best long-term economical method to meet water demands using current and future water supplies through optimization of existing points of diversion and potential new points of diversion. As an example, the Study will evaluate options for relocating water supplies, currently slated for diversion at Folsom Lake, higher in the system to more fully utilize the water right and potentially reduce annual pumping costs. Required infrastructure and associated costs needed to treat and convey those supplies will be identified. Operational strategies will be investigated to optimize existing and future water supplies to take full advantage of District facilities while continuing to maximize water supply availability and hydroelectric power generation. Legal and environmental considerations will also require assessment. The Study will be used to supplement and build upon previous and ongoing master planning efforts.

Basis for Priority:

This project provides measurable progress towards achieving the Districts goals and must be completed by June 30, 2011 or funding for the consultant contract in the amount of \$280,000 will be lost.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 100,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 100,000
Project Balance	\$ -	Additional Funding Required	\$ 100,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 100,000					\$ 100,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$100,000
		\$0
		\$0
Total	100%	\$100,000

Funding Comments: Funding is to cover staff time to complete the study.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number: NEW
Project Name: Water Tank Recoating Program
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Rice **Board Approval:** 11/08/10

Project Description:

The District operates over 30 steel storage tanks, many of which have not been thoroughly inspected inside for coating and corrosion issues or failures for up to 15 years. Coating systems of the period 10 to 15 years ago were typically recommended to be inspected annually and recoated every 7 to 10 years. Insufficient inspection and coating system maintenance can lead to excessive maintenance, small leaks, major repairs, or the need for complete replacement.

The program will involve a survey of all welded steel tanks, identification and prioritization of repair needs, and bidding for coating remediation services. Emphasis will be placed on interior coatings which are difficult to access and schedule downtimes for repairs. The proposed budget is based on coating several tank interior paint systems each year along with minor exterior touch up work.

Funding for 2011 is to initiate planning level prioritization of water storage tanks for painting repairs. Actual construction and painting will occur beginning in 2012 and continue.

Basis for Priority:

Project purpose is to maintain existing assets and prolong their useful service life and reliability.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ 6,000
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 875,000
Cash flow through end of year:	\$ 6,000	Total Project Estimate:	\$ 881,000
Project Balance	\$ (6,000)	Additional Funding Required	\$ 881,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$75,000	\$200,000	\$200,000	\$200,000	\$ 200,000	\$ 875,000
						\$ -
TOTAL	\$ 75,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 875,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$81,000
		\$0
		\$0
Total	100%	\$81,000

Funding Comments: Project involves no planned increase in capacity, therefore funding is 100% water rates.

2011 CAPITAL IMPROVEMENT PLAN

Program: Water

Project Number:

SDWL04

Project Name:

Reservoir Floating Cover Replacement Program

Project Category:

Regulatory Requirements

Priority:

1

PM:

Rice

Board Approval:

11/08/10

Project Description:

This project consists of replacement of the District's reservoirs currently fitted with floating covers. The District has completed a study that evaluated the condition of the existing floating covers and identified current deficiencies and repairs required to extend their useful life. The study also looked at replacing the reservoirs with steel tanks. Moose Hall Res. will be abandoned and replaced with a pressure reducing station and a new pump station. The District's Storage Evaluation Report identifies the required sizes of the reservoirs to serve current and future demands. Replacement of these reservoirs is required per the CDPH Compliance Order. Funding includes installation of various improvements to the existing floating covers to extend their life until replacement and proceeding with design and environmental work for the overall program.

Basis for Priority:

Violation of the CDPH Compliance Order.

Project Financial Summary:			
Funded to Date:	\$ 400,000	Expenditures through end of year:	\$ 147,884
Spent to Date:	\$ 147,884	2011-2015 Planned Expenditures:	\$ 300,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 447,884
Project Balance	\$ 252,116	Additional Funding Required	\$ 47,884

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$50,000	\$50,000	\$50,000			\$ 150,000
Construction Costs	\$50,000	\$50,000	\$50,000	*		\$ 150,000
						\$ -
TOTAL	\$ 100,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ 300,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	80%	\$0
Water FCCs	20%	\$0
		\$0
Total	100%	\$0

Funding Comments: This program includes replacement of existing capacity and enlargement for future connections. Funding split will be evaluated further for each project.

Wastewater Projects

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: 01004E
Project Name: Deer Creek WWTP Crossing
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Brink **Board Approval:** 11/08/10

Project Description:

In 2008 the Board approved the final design of the bridge, and in 2010 approved the construction contract. Construction is scheduled to be complete in 2010, along with mitigation planting for trees removed during the construction of the bridge. Mitigation monitoring for tree planting will need to continue for five years after project completion. A new stream gauge is also being installed as part of the project.

Basis for Priority:

The project is in construction.

Project Financial Summary:			
Funded to Date:	\$ 1,748,582	Expenditures through end of year:	\$ 1,482,059
Spent to Date:	\$ 1,182,059	2011-2015 Planned Expenditures:	\$ 210,000
Cash flow through end of year:	\$ 300,000	Total Project Estimate:	\$ 1,692,059
Project Balance	\$ 266,523	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					
	2011	2012	2013	2014	2015	Total
Study/Planning						\$ -
Design						\$ -
Construction	\$ 200,000	\$ 2,500	\$ 2,500	\$ 2,500	\$ 2,500	\$ 210,000
						\$ -
TOTAL	\$ 200,000	\$ 2,500	\$ 2,500	\$ 2,500	\$ 2,500	\$ 210,000

Funding Sources	Percentage	2011 Funding Amount
Wastewater Rates	75%	\$0
CP Sewer FCCs	15%	\$0
ML Sewer FCCs	10%	\$0
Total	100%	\$0

Funding Comments: funding is based on existing and future capacity of facilities

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: 04013E
Project Name: Deer Creek Wastewater Treatment Plant (DCWWTP) Maintenance Building
Project Category: Reliability & Service Level Improvements
Priority: 3 **PM:** Sullivan **Board Approval:** 11/08/10

Project Description:

Replacement of existing under sized maintenance building with a larger and up-to-date building. A new building to replace the existing building is necessary to handle the increased activity of the plant maintenance due to process upgrades, improvements and increased complexity.

Currently, the building has been designed and can be made ready for bidding with a review from structural and architectural engineers to insure compliance with current code.

Basis for Priority:

Reliable maintenance may not be possible without sufficient facilities. OSHA compliance issues for workplace safety.

Project Financial Summary:			
Funded to Date:	\$ 124,305	Expenditures through end of year:	\$ 89,583
Spent to Date:	\$ 89,583	2011-2015 Planned Expenditures:	\$ 650,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 739,583
Project Balance	\$ 34,722	Additional Funding Required	\$ 615,278

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design			\$ 50,000			\$ 50,000
Construction				\$600,000		\$ 600,000
						\$ -
TOTAL	\$ -	\$ -	\$ 50,000	\$ 600,000	\$ -	\$ 650,000

Funding Sources	Percentage	2011 Funding Amount
Wastewater Rates	78%	\$0
CP Sewer FCCs	10%	\$0
ML Sewer FCCs	12%	\$0
Total	100%	\$0

Funding Comments: Funding 78% Rates, and 22% Deer Creek Sewer FCC's. Based on plant capacity and sewer liability.

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: 06055E
Project Name: Deer Creek/Motherlode Collection System (CAP)
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Sullivan **Board Approval:** 11/08/10

Project Description:

The objective of this project is to reduce sanitary sewer overflows and sources of inflow and infiltration (I/I). This CIP will target replacement of air relief valves, repair/rehabilitation of manholes and cleanouts and minor repairs at the lift stations.

Basis for Priority:

Reduction of sanitary sewer overflows is a high-priority for the district. If this project is not approved spills may continue and expose the district to mandatory fines.

Project Financial Summary:			
Funded to Date:	\$ 250,000	Expenditures through end of year:	\$ 137,395
Spent to Date:	\$ 137,395	2011-2015 Planned Expenditures:	\$ 375,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 512,395
Project Balance	\$ 112,605	Additional Funding Required	\$ 262,395

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$75,000	\$75,000	\$75,000	\$75,000	\$ 75,000	\$ 375,000
						\$ -
TOTAL	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000

Funding Sources	Percentage	2011 Funding Amount
Wastewater Rates	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments: Funding is 100% wastewater rates as no new capacity is being added.

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: 06056E
Project Name: El Dorado Hills WWTP Corrective Action Plan (CAP)
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Sullivan **Board Approval:** 11/08/10

Project Description:

The objective of this project is to reduce sanitary sewer overflows and sources of inflow and infiltration (I/I). This CIP will target replacement of air relief valves, repair/rehabilitation of manholes and cleanouts and minor repairs at the lift stations.

Basis for Priority:

Reduction of sanitary sewer overflows is a high-priority for the district. If this project is not approved spills may continue and expose the district to mandatory fines.

Project Financial Summary:			
Funded to Date:	\$ 200,000	Expenditures through end of year:	\$ 75,362
Spent to Date:	\$ 75,362	2011-2015 Planned Expenditures:	\$ 375,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 450,362
Project Balance	\$ 124,638	Additional Funding Required	\$ 250,362

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction	\$75,000	\$75,000	\$75,000	\$75,000	\$ 75,000	\$ 375,000
						\$ -
TOTAL	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000

Funding Sources	Percentage	2011 Funding Amount
Wastewater Rates	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments: Project funding is 100% replacement reserves for rehabilitation work.

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: 06062E
Project Name: El Dorado Hills Wastewater Treatment Plant NPDES Permit Process
Project Category: Regulatory Requirements

Priority: 1 **PM:** Wells **Board Approval:** 11/08/10

Project Description:

In 2007 El Dorado Hills Wastewater Treatment Plant was issued a new NPDES Permit for the facility which is currently under expansion. The permit contains 106 compliance items some of which require extra studies, data collection and other extensive work. This ongoing project will be for engineering and environmental studies of the El Dorado Hills WWTP. Engineering and environmental studies determine reasonable process requirements that would eliminate potential future capital expenditures to comply with the permit.

As of this date, there are two metals, aluminum and zinc, that have final effluent limits that we cannot comply with. In order to come into compliance, staff will need to contract with a consultant to develop a water-effects ratio for both metals. Most of the 2011 planned expenditures are for development of the WER's and staff time.

In addition, a report of waste discharge is due to the RWQCB in mid 2011 and our permit will be renewed in late 2011 or early 2012. A significant amount of staff time is required to prepare the RWD. Additional time is required to review and negotiate our new permit with regional board staff.

Basis for Priority:

The District must comply with the regulatory requirements of the new permit. If the above budget is not approved, delays in responding to the changing discharge permit requirement systems may cause the District to be unable to meet those requirements and can subject the District to potential fines and lawsuits.

Project Financial Summary:			
Funded to Date:	\$ 325,000	Expenditures through end of year:	\$ 310,762
Spent to Date:	\$ 310,762	2011-2015 Planned Expenditures:	\$ 300,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 610,762
Project Balance	\$ 14,238	Additional Funding Required	\$ 285,762

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$250,000	\$50,000				\$ 300,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 250,000	\$ 50,000	\$ -	\$ -	\$ -	\$ 300,000

Funding Sources	Percentage	2011 Funding Amount
Wastewater Rates	69%	\$162,676
EDH Sewer FCCs	31%	\$73,086
		\$0
Total	100%	\$235,762

Funding Comments: 69% rates, and 31% sewer FCC's based on plant capacity (4 MGD) and sewer liability report.

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: 07017E
Project Name: Camino Heights Disposal Upgrade
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Sullivan **Board Approval:** 11/08/10

Project Description:

The plant improvements as required by the Cleanup and Abatement Order have been completed. The project description below is left for information only. The last remaining portion of the project includes revising the Report of Waste Discharge to the Regional Water Quality Control Board and negotiating a new facility permit. The new permit will include the process changes that have been completed at the plant.

The improvements to the surface drainage around pond 1 and 3 has been completed. A cut-off trench has been installed above pond 2. The inspection (smoke test and camera work) of the sewer system has been completed. No major problems were found in the collection system. The SDI (subterranean drip irrigation) has been installed and is now operational. The SDI system will allow operations to discharge to the disposal field during times of predicted rain forecasts and wet weather, significantly reducing the potential for pond capacity violations.

Basis for Priority:

All items have been constructed. Staff needs to complete the Report of Waste Discharge and negotiate a new permit for the plant. These items will be complete in early 2011.

Project Financial Summary:			
Funded to Date:	\$ 609,286	Expenditures through end of year:	\$ 571,394
Spent to Date:	\$ 571,394	2011-2015 Planned Expenditures:	\$ 37,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 608,394
Project Balance	\$ 37,892	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 37,000					\$ 37,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 37,000	\$ -	\$ -	\$ -	\$ -	\$ 37,000

Funding Sources	Percentage	2011 Funding Amount
Wastewater Rates	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments: Wastewater rates are the appropriate source of funding as no new capacity is being added.

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: 07029E
Project Name: Deer Creek Wastewater Treatment Plant NPDES Permit
Project Category: Regulatory Requirements
Priority: 1 **PM:** Wells **Board Approval:** 11/08/10

Project Description:

The wastewater treatment plants are constantly faced with new requirements by regulatory agencies either by the issuance of a new permit or by interim orders. This fund will be for engineering and environmental studies to address new requirements as they arise. The DCWWTP received a new NPDES permit in 2008. The new permit contains many compliance items which require study and possible mitigation measure to meet compliance schedules delineated with the permit.

Staff will need to initiate and complete a zinc water effects ratio by 2012.

In addition, staff will need to submit a report of waste discharge in 2012 and begin permit negotiations with regional board staff in 2012.

Basis for Priority:

The District must comply with the regulatory requirements of the new permit. If the above budget is not approved, delays in responding to the changing discharge permit requirement systems may cause the District to be unable to meet those requirements and can subject the District to potential fines and lawsuits.

Project Financial Summary:			
Funded to Date:	\$ 188,414	Expenditures through end of year:	\$ 158,943
Spent to Date:	\$ 158,943	2011-2015 Planned Expenditures:	\$ 235,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 393,943
Project Balance	\$ 29,471	Additional Funding Required	\$ 205,529

Description of Work	Estimated Annual Expenditures					
	2011	2012	2013	2014	2015	Total
Study/Planning	\$175,000	\$ 40,000	\$ 20,000			\$ 235,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 175,000	\$ 40,000	\$ 20,000	\$ -	\$ -	\$ 235,000

Funding Sources	Percentage	2011 Funding Amount
Wastewater Rates	65%	\$94,594
CP Sewer FCCs	17%	\$24,740
ML Sewer FCCs	18%	\$26,195
Total	100%	\$145,529

Funding Comments: Funding is 65% Replacement Reserve, 17% Cameron Park Sewer FCC's, and 18% Mother Lode Sewer FCC's; based on capacity of 3.6 MGD

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: 08007E
Project Name: Wastewater Master Plan and SSMP
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Wells **Board Approval:** 11/08/10

Project Description:

The District's most recent wastewater master plan was completed in November 2001. Typically, master plans are updated every 5-6 years. The purpose of the master plan is to take a 20 year planning view of wastewater treatment and collection system treatment needs, future flows, facility needs and costs. This project includes a condition assessment of 10 of the District's lift stations. In addition, the project includes developing a dynamic model of the sewer collection system. The sewer model is a requirement of the new collection system Waste Discharge Requirement and Sewer System Management Plan. Our consultant has completed the model and will soon be training staff to run the model.

Basis for Priority:

This projects provides measurable progress toward achieving the District's goals. This project is currently underway and is approximately 70 percent complete.

Project Financial Summary:			
Funded to Date:	\$ 670,229	Expenditures through end of year:	\$ 566,410
Spent to Date:	\$ 566,410	2011-2015 Planned Expenditures:	\$ 100,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 666,410
Project Balance	\$ 103,819	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 100,000					\$ 100,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Funding Sources	Percentage	2011 Funding Amount
WW FCC's	40%	\$0
replacement reserves	60%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: 08008E
Project Name: DOT Construction Projects - Wastewater
Project Category: State/County Road Projects
Priority: 1 **PM:** Brink **Board Approval:** 11/08/10

Project Description:

The Board has directed staff to streamline contracting procedures with the El Dorado County Department of Transportation (DOT) for the two agencies' joint projects. EID has many water and sewer lines in roads maintained by the DOT. From time to time, DOT initiates a road project where either EID water, wastewater or recycled waterlines need to be relocated or upgraded, which presents opportunities to join forces with DOT in the project by simultaneously upgrading and/or relocating our facilities. EID and DOT staffs have identified several methods to improve mutual co-operation in conducting County road construction projects that impact EID facilities.

This CIP is for District funds that would be needed to relocate our wastewater or recycle water facilities that conflict with a County road project. This CIP is intended for minor projects. The large utility relocation projects will have a specific CIP that identifies all the work associated with that project.

Basis for Priority:

Projects are required by law, regulation, contract, agreement or license. This includes projects required to meet requirements imposed by federal, State, or local governments. This also includes relocation of District facilities necessitated by State or County road improvements.

Project Financial Summary:			
Funded to Date:	\$ 117,000	Expenditures through end of year:	\$ 114,331
Spent to Date:	\$ 109,331	2011-2015 Planned Expenditures:	\$ 400,000
Cash flow through end of year:	\$ 5,000	Total Project Estimate:	\$ 514,331
Project Balance	\$ 2,669	Additional Funding Required	\$ 397,331

Description of Work	Estimated Annual Expenditures					
	2011	2012	2013	2014	2015	Total
Study/Planning						\$ -
Design	\$20,000	\$20,000	\$20,000	\$20,000		\$ 80,000
Construction Costs	\$80,000	\$80,000	\$80,000	\$80,000		\$ 320,000
						\$ -
TOTAL	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ -	\$ 400,000

Funding Sources	Percentage	2011 Funding Amount
Wastewater Rates	100%	\$97,331
		\$0
		\$0
Total	100%	\$97,331

Funding Comments: Funding is 100% rates. Typically work involves replacement or relocation of existing facilities. However, funding split will be further evaluated for each project.

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: 08009E
Project Name: Mother Lode Forcemain Repairs Phase IIB
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Brink **Board Approval:** 11/08/10

Project Description:

The Motherlode Forcemain runs from the El Dorado lift station to the Deer Creek WWTP. This section of pipe and other sections experience full pipe and open channel conditions making them susceptible to hydrogen sulfide corrosion. There is evidence that many sections along the forcemain are deteriorated. The pipeline is also nearing capacity and in the future, the entire length of the forcemain needs to be replaced. The replacement line will be of a larger size to accommodate approved growth and the resulting increased flow. The Phase IIB portion will replace approximately 2,500 feet of pipeline in the vicinity of South Shingle Springs Road and will connect to pipelines that were replaced in earlier phases.

Basis for Priority:

If the pipe is not replaced, additional line breaks and subsequent sewer spills may occur. If sewer spills occur, the District may be subject to regulatory fines.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ 26,156
Spent to Date:	\$ 1,156	2011-2015 Planned Expenditures:	\$ 1,200,000
Cash flow through end of year:	\$ 25,000	Total Project Estimate:	\$ 1,226,156
Project Balance	\$ (26,156)	Additional Funding Required	\$ 1,226,156

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction	\$1,200,000					\$ 1,200,000
						\$ -
TOTAL	\$ 1,200,000	\$ -	\$ -	\$ -	\$ -	\$ 1,200,000

Funding Sources	Percentage	2011 Funding Amount
WW FCC's	35%	\$429,155
replacement reserves	65%	\$797,001
		\$0
Total	100%	\$1,226,156

Funding Comments: Replacement reserves 35%, wastewater FCC 65%; based on ratio of existing and future EDU's

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: 09015E
Project Name: Yates Lift Station Upgrade
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Mackay **Board Approval:** 11/08/10

Project Description:

The project involves the upgrade of Yates Lift Station. Currently the lift station is an old steel corroded wet well with low service level. The electrical controls also need to be upgraded to increase operational efficiency. The pumps were replaced in 2005 due to wear and tear of the existing pumps. Existing valves and piping still need to be replaced. An additional 30 EDUs is expected to be discharged to the wet well in the future, requiring the upgrade to handle the additional loading. The new wet well will increase operational efficiency and accommodate future growth.

Basis for Priority:

The lift station will not be able to accommodate future growth and continue to degrade increasing the risk of potential failures in the future which could result in hazards to the public and regulatory fines.

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 3,572
Spent to Date:	\$ 2,072	2011-2015 Planned Expenditures:	\$ 46,428
Cash flow through end of year:	\$ 1,500	Total Project Estimate:	\$ 50,000
Project Balance	\$ 46,428	Additional Funding Required	\$ 0

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$ 5,000					\$ 5,000
Construction	\$ 41,000					\$ 41,000
						\$ -
TOTAL	\$ 46,000	\$ -	\$ -	\$ -	\$ -	\$ 46,000

Funding Sources	Percentage	2011 Funding Amount
Wastewater Rates	77%	\$0
ML Sewer FCCs	23%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: 10010
Project Name: Lift Station Upgrades
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Brink **Board Approval:** 11/08/10

Project Description:

This is a program level project to address issues of safety and reliability within the District's system of sewer lift stations. As part of the 2010 Master Plan, consulting engineers performed condition assessments at ten separate lift stations. Results of these assessments along with staff input and analysis will be used to schedule lift station upgrades and repairs; pump replacements, wet-well repairs or improvements, electrical, back-up power, and remediation of any structural or capacity deficiencies. Complete replacement of Business Park 1 Lift Station and Summit 1 Station are planned for 2011. Reliability improvements are also planned for Timberline Lift Station.

Basis for Priority:

This program provides life-cycle replacement of sewer lift stations thereby providing safe, reliable collection system assets.

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 73,801
Spent to Date:	\$ 23,801	2011-2015 Planned Expenditures:	\$ 5,600,000
Cash flow through end of year:	\$ 50,000	Total Project Estimate:	\$ 5,673,801
Project Balance	\$ (23,801)	Additional Funding Required	\$ 5,623,801

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$ 200,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 600,000
Construction Costs	\$2,000,000	\$750,000	\$750,000	\$750,000	\$750,000	\$ 5,000,000
						\$ -
TOTAL	\$ 2,200,000	\$ 850,000	\$ 850,000	\$ 850,000	\$ 850,000	\$ 5,600,000

Funding Sources	Percentage	2011 Funding Amount
Wastewater Rates	100%	\$2,223,801
		\$0
		\$0
Total	100%	\$2,223,801

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: 10016
Project Name: Coach Lane Sewer Line
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Sullivan **Board Approval:** 11/08/10

Project Description:

The Coach Lane gravity pipe section which requires replacement begins at the intersection of Coach Lane and Rodeo Road and ends 0.2 mile east of the intersection of Coach Lane and Cameron Park Drive. The pipeline is 6-inch diameter and has various sections of asbestos cement and PVC pipe. The pipe is experiencing cracks, holes and corrosion along the invert that require a complete replacement with new PVC pipe and new service lateral connections. Therefore, this project consists of replacing approximately 1,700 feet of the existing pipe and manholes. Existing services must be maintained during the replacement.

Per the General Waste Discharge Requirements (WDR's) for the collection systems, the District is required to have a pipeline repair and replacement program.

Basis for Priority:

Reduction of I/I and elimination of SSO's will be difficult to obtain. Regulatory fines could be imposed.

Project Financial Summary:			
Funded to Date:	\$ 85,666	Expenditures through end of year:	\$ 301,530
Spent to Date:	\$ 85,666	2011-2015 Planned Expenditures:	\$ 863,458
Cash flow through end of year:	\$ 215,864	Total Project Estimate:	\$ 1,164,988
Project Balance	\$ (215,864)	Additional Funding Required	\$ 1,079,322

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$863,458					\$ 863,458
						\$ -
TOTAL	\$ 863,458	\$ -	\$ -	\$ -	\$ -	\$ 863,458

Funding Sources	Percentage	2011 Funding Amount
Wastewater Rates	100%	\$1,079,322
		\$0
		\$0
Total	100%	\$1,079,322

Funding Comments: replacement and/or repair of existing collection system pipes; 100 % WW rates

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: 10017
Project Name: Bridlewood Lift Station Upgrades
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Sullivan **Board Approval:** 11/08/10

Project Description:

The purpose of this CIP is to replace the lift station pumps, appurtenances, and associated piping that have substantial deterioration. The project will require bypass pumping. The construction will utilize in-house labor.

Basis for Priority:

Improvements to improve reliability of lift station is necessary to reduce and/or eliminate SSO's withing the collection system. Regulatory fines could be imposed is reliability is compromised.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ 5,000
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 95,000
Cash flow through end of year:	\$ 5,000	Total Project Estimate:	\$ 100,000
Project Balance	\$ (5,000)	Additional Funding Required	\$ 100,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 5,000					\$ 5,000
Design	\$ 10,000					\$ 10,000
Construction	\$ 80,000					\$ 80,000
						\$ -
TOTAL	\$ 95,000	\$ -	\$ -	\$ -	\$ -	\$ 95,000

Funding Sources	Percentage	2011 Funding Amount
Wastewater Rates	100%	\$100,000
		\$0
		\$0
Total	100%	\$100,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: 10018
Project Name: Rancho Ponderosa Decommission
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Sullivan **Board Approval:** 11/08/10

Project Description:

The Rancho Ponderosa WWTP (RPWWTP) has been replaced with a new lift station to carry the sewage off to the Deer Creek / Mother Load collection system. The RPWWTP consisted of two small ponds and a small disinfection building and basin. In order to reclaim the property and properly demolish all the existing treatment facilities a decommission plan and then execution of the plan is necessary. The plan will require coordination with the RWQCB including a revocation of the operations license. The plan may include monitoring and/or sampling of the facility prior and post demolition.

Basis for Priority:

The facility was taken off line in 2009. In order to reclaim the property for other uses in an environmentally responsible manner, a proper decommissioning is necessary and required by the RWQCB.

Project Financial Summary:			
Funded to Date:	\$ 167,919	Expenditures through end of year:	\$ 15,357
Spent to Date:	\$ 357	2011-2015 Planned Expenditures:	\$ 150,000
Cash flow through end of year:	\$ 15,000	Total Project Estimate:	\$ 165,357
Project Balance	\$ 152,562	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 150,000					\$ 150,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000

Funding Sources	Percentage	2011 Funding Amount
Wastewater Rates	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: NEW
Project Name: DCWWTP Regulatory Compliance
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Brink **Board Approval:** 11/08/10

Project Description:

The project will complete the installation of a new headworks at the plant which will greatly reduce maintenance and increase operational efficiency.
 This project also includes installing covers over the filters to reduce the growth of algae which results in increased backwashing, reduced filter efficiency and potential violations.

This project continues the work of the previous project 02012E.

Basis for Priority:

The improvements will greatly increase the operational efficiency of the DCWWTP and aid in meeting regulatory compliance.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 110,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 110,000
Project Balance	\$ -	Additional Funding Required	\$ 110,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$ 10,000					\$ 10,000
Construction	\$ 100,000					\$ 100,000
						\$ -
TOTAL	\$ 110,000	\$ -	\$ -	\$ -	\$ -	\$ 110,000

Funding Sources	Percentage	2011 Funding Amount
Wastewater Rates	78%	\$85,800
CP Sewer FCCs	10%	\$11,000
ML Sewer FCCs	12%	\$13,200
Total	100%	\$110,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: NEW
Project Name: Bass Lake Fencing
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Caulfield **Board Approval:** 11/08/10

Project Description:

Install fencing around the perimeter of the Bass Lake Facility for added security and safety of the residents and children around Bass Lake.

Basis for Priority:

Safety and Security issue: to prevent/reduce vandalism and theft from the millions of dollars worth of EID assets. To prevent/reduce catastrophic and/or tragedy that can occur around an unsupervised lake.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 120,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 120,000
Project Balance	\$ -	Additional Funding Required	\$ 120,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 120,000					\$ 120,000
						\$ -
TOTAL	\$ 120,000	\$ -	\$ -	\$ -	\$ -	\$ 120,000

Funding Sources	Percentage	2011 Funding Amount
	100%	\$120,000
		\$0
		\$0
Total	100%	\$120,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: NEW
Project Name: DCWWTP Solids Processing Analysis
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Wells/Caulfield **Board Approval:** 11/08/10

Project Description:

Each year the District spends approximately \$270,000 in hauling and disposal costs for sludge removal from Deer Creek and El Dorado Hills WWTPs. The sludge thickening process at El Dorado Hills has recently been improved with the addition of a new digester. That plant has the ability to produce a thick, dry sludge that has a low water content. Producing sludge with a low water content is critical in keeping hauling and disposal costs low. However, the solids processing at Deer Creek utilizes an aerobic digester along with an older belt filter press. The water content in the sludge at Deer Creek is much higher and results in higher sludge hauling and disposal costs. The purpose of this study is to investigate improvements to the existing solids processing and investigate other forms of solids processing that may result in a better life cycle cost and reduction in operation and maintenance costs. This study will also include the investigation of energy producing systems that operate in conjunction with biosolids process.

Basis for Priority:

The basis for this study is to review the biosolids process at DCWWTP with the goal of reducing disposal and hauling costs, reduce operation and maintenance costs and to investigate the potential for energy generation with the solids processing process.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 70,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 70,000
Project Balance	\$ -	Additional Funding Required	\$ 70,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 70,000					\$ 70,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 70,000	\$ -	\$ -	\$ -	\$ -	\$ 70,000

Funding Sources	Percentage	2011 Funding Amount
Wastewater Rates	100%	\$70,000
		\$0
		\$0
Total	100%	\$70,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: NEW
Project Name: EDHWWTP Filter Covers
Project Category: Reliability & Service Level Improvements

Priority: 1 **PM:** Sullivan **Board Approval:** 11/08/10

Project Description:

Currently, there are six media filters at the EDHWWTP. Four of the filters are existing and two new filters have been installed as part of the Phase IIIA project. The filters are utilized to meet our discharge requirements and to produce Title 22 tertiary treated recycled water. A UV disinfection system has also been installed with the Phase IIIA project due to the THM constituent requirement in the EDHWWTP NPDES permit. THM's are a chlorine disinfection byproduct that can be created when chlorine comes in contact with organic material. With the installation of the UV system, plant operations will completely eliminate the use of chlorine within the plant process. Removal of chlorine throughout the plant processes will eliminate the potential of THM production and violation of our NPDES permit. However, elimination of chlorine will allow for algae production within the plant process areas that are exposed to UV rays. Since the top of the filters are uncovered, the wastewater is exposed to the atmosphere and the UV rays. The purpose of this project is to construct filter covers on all 6 filters. The covers will be pool-type covers that can mechanically slide open.

Basis for Priority:

The new covers are needed to reduce the UV rays and eliminate algae production in the filters. Installation of the covers will reduce the risk of bacteria production and violation of our NPDES permit.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ 20,000
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 120,000
Cash flow through end of year:	\$ 20,000	Total Project Estimate:	\$ 140,000
Project Balance	\$ (20,000)	Additional Funding Required	\$ 140,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$ 20,000					\$ 20,000
Construction	\$ 100,000					\$ 100,000
						\$ -
TOTAL	\$ 120,000	\$ -	\$ -	\$ -	\$ -	\$ 120,000

Funding Sources	Percentage	2011 Funding Amount
Recycled Water Reserves	48%	\$67,200
Recycled Water FCC's	22%	\$30,800
Wastewater reserves	30%	\$42,000
Total	100%	\$140,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Wastewater

Project Number: NEW
Project Name: Generator Replacement Program
Project Category: Regulatory Requirements

Priority: 1 **PM:** Sullivan **Board Approval:** 11/08/10

Project Description:

The District currently has 54 permanently located (stationary) generators. Thirteen are larger than 200 Kw and are emergency standby power at the waste water and water treatment plants as well as pumping stations. Some of the sewer lift stations also have either diesel or propane generators for emergency power. This program is to replace these aging assets to ensure reliable service and safe operations at our facilities.

Basis for Priority:

Regulatory compliance and reduction of SSO's

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 450,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 450,000
Project Balance	\$ -	Additional Funding Required	\$ 450,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction	\$150,000	\$75,000	\$75,000	\$75,000	\$ 75,000	\$ 450,000
						\$ -
TOTAL	\$ 150,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 450,000

Funding Sources	Percentage	2011 Funding Amount
Wastewater Rates	100%	\$150,000
		\$0
		\$0
Total	100%	\$150,000

Funding Comments:

Project Number: NEW
Project Name: Motherlode Forcemain Flow Monitoring and Modeling
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Wells **Board Approval:** 11/08/10

Project Description:

As part of the Wastewater Master Plan project, the District initiated flow monitoring in the collection system in the winter of 2008, and completed the development of a dynamic sewer model in 2009. The model results indicate that a portion of the trunk line on the Motherlode Forcemain is flowing at full capacity during wet weather events. If the model is correct and the pipe is flowing full during rain events, a large sewer spill could occur during a 2-year or greater storm event. This section of the Motherlode Forcemain is mostly 12-inch pipe and it approximately 9,000 feet in length. It should be noted that although we have named this section of pipe the Motherlode Forcemain, this 9,000 foot section is actually a gravity section. Staff would like to further investigate the flow in this section of the Motherlode Forcemain. Therefore, the scope of this project would include installing 4 flow monitors in the 12-inch pipeline during the 2010-2011 winter season. The flow monitoring results would then be compared with rain events and calibrated with our current dynamic sewer model. The results will determine if the pipeline has adequate capacity or if it must be upsized.

Basis for Priority:

To reduce the potential for large sanitary sewer overflows.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 75,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 75,000
Project Balance	\$ -	Additional Funding Required	\$ 75,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 75,000					\$ 75,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ 75,000

Funding Sources	Percentage	2011 Funding Amount
Wastewater Rates	100%	\$75,000
		\$0
		\$0
Total	100%	\$75,000

Funding Comments:

Recycled Water Projects

2011 CAPITAL IMPROVEMENT PLAN

Program: Recycled Water

Project Number: 05007E
Project Name: 800 Tank & Pipeline
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Brink **Board Approval:** 11/08/10

Project Description:

The project has been constructed and awaiting warranty repairs from the Developer. With the acceptance of the Recycled Water Master Plan and mandate of recycled water use, which greatly expands the use of recycled water, a new tank was needed to serve existing and approved development. A new 2.0 million gallon tank at the 800 elevation and associated pipeline was needed to serve existing customers and a portion of the Valley View subdivision, which is currently under construction. The tank construction was completed in 2007 and warranty repairs are being conducted.

This tank is an essential piece of the recycled water distribution system and provides daily storage of recycled water for use in the 800 zone. The tank is subject to reimbursement per the agreement with the developer. A majority of the required reimbursement was made in early 2010. The balance is anticipated to be paid in late 2010 or early 2011 upon final acceptance of the warranty repairs and warranty bond.

Basis for Priority:

Project has been constructed.

Project Financial Summary:

Funded to Date:	\$ 3,308,749	Expenditures through end of year:	\$ 1,208,197
Spent to Date:	\$ 1,058,197	2011-2015 Planned Expenditures:	\$ 150,000
Cash flow through end of year:	\$ 150,000	Total Project Estimate:	\$ 1,358,197
Project Balance	\$ 2,100,552	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 150,000					\$ 150,000
						\$ -
TOTAL	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000

Funding Sources	Percentage	2011 Funding Amount
Recycled Water Rates	39%	\$0
RW FCCs	61%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Recycled Water

Project Number: 05008E
Project Name: 960 Tank Replacement
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Brink **Board Approval:** 11/08/10

Project Description:

The construction project has been completed and awaiting project closeout. The description below is left for information.

The existing 960 tank was a 1.0 million gallon tank that was converted to recycled water use when the facility was no longer needed for the potable water system. With the acceptance of the Recycled Water Master Plan and mandate of recycled water, which greatly expanded the use of recycled water, the tank was not of adequate size to serve existing and approved development. A new 2.0 million gallon tank at the 940 elevation was needed to serve existing customers and the Valley View subdivision. With the project, the existing 960 tank was abandoned and the site retained for future facilities. This 940 tank is an essential piece of the recycled water distribution system and provides daily storage of recycled water for use in existing development in the new 940 zone and pumping to the future 1125 zone.

The project was conducted in accordance with the reimbursement agreement with the developer. A majority of the required reimbursement was made in early 2010. The balance is anticipated to be paid in late 2010 or early 2011 upon final acceptance of the warranty repairs and warranty bond. Staff is reviewing developer cost documentation and warranty items are being addressed.

Basis for Priority:

Project has been constructed. Final payment to developer will be made in 2010 or early 2011.

Project Financial Summary:			
Funded to Date:	\$ 3,732,084	Expenditures through end of year:	\$ 1,272,138
Spent to Date:	\$ 1,122,138	2011-2015 Planned Expenditures:	\$ 150,000
Cash flow through end of year:	\$ 150,000	Total Project Estimate:	\$ 1,422,138
Project Balance	\$ 2,459,946	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 150,000					\$ 150,000
						\$ -
TOTAL	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000

Funding Sources	Percentage	2011 Funding Amount
Recycled Water Rates	34%	\$0
RW FCC	66%	\$0
		\$0
Total	100%	\$0

Funding Comments: FCC credits applied to reimburse the developer's costs in accordance with the reimbursement agreement

2011 CAPITAL IMPROVEMENT PLAN

Program: Recycled Water

Project Number: 07034E
Project Name: Seasonal Storage - BODR / EIR
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Brink **Board Approval:** 11/08/10

Project Description:

Seasonal Storage of recycled water is needed to meet current and forecasted recycled water demands. Currently there is more demand than supply, resulting in supplementation of the recycled water system with potable water and, if necessary, raw water from Bass Lake. On March 27, 2006 the Board approved the consultant award of the Seasonal Storage BODR project. The purpose of the project was to evaluate all potential sites that could be used for Seasonal Storage, followed by a detailed geotechnical investigation and 30% level design being conducted on selected sites. The purpose of this effort was to determine the most economical site for seasonal storage so the Board can make a decision on how to proceed.

The BODR is substantially complete, with the final task of assembling the final report. At the Board's direction, staff has started preparation of the EIR, is pursuing a Change of Use permit with the State Water Resources Control Board and has initiated discussions with the land owner.

Basis for Priority:

Substantial work has been done to date, but the tasks stated above and directed by the Board still need to be completed.

Project Financial Summary:			
Funded to Date:	\$ 1,735,035	Expenditures through end of year:	\$ 1,391,109
Spent to Date:	\$ 1,316,109	2011-2015 Planned Expenditures:	\$ 120,000
Cash flow through end of year:	\$ 75,000	Total Project Estimate:	\$ 1,511,109
Project Balance	\$ 343,926	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 100,000					\$ 100,000
Design	\$ 20,000					\$ 20,000
Construction						\$ -
						\$ -
TOTAL	\$ 120,000	\$ -	\$ -	\$ -	\$ -	\$ 120,000

Funding Sources	Percentage	2011 Funding Amount
RW FCC's	50%	\$0
RW rates	50%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Recycled Water

Project Number: 08012E
Project Name: Seasonal Storage Design
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Brink **Board Approval:** 11/08/10

Project Description:

Seasonal storage of recycled water is needed to meet current and forecasted recycled water demands without supplementation. On March 26, 2006 the Board approved the award of the Seasonal Storage BODR. The purpose of the BODR was to evaluate potential seasonal storage sites to determine potential costs, environmental issues and permitting issues. This project would build off the BODR. The design of Seasonal Storage would be very complicated and involve many meetings with the public and regulatory agencies. Operational permits will be needed from the RWQCB and California Department of Public Health.

Proceeding to the design phase of the Seasonal Storage Project will get the District one step closer to meeting the Board's Policy of "using recycled water where feasible". It will also provide a drought proof source of water and allow better use of our potable water, especially in times of drought. The project could provide the District the opportunity to form regional partnerships to share the benefits of the project.

Basis for Priority:

Additional treated water and raw water supplementation of the recycled water system will be required if seasonal storage is not built. A drought resistant source of water will not be secured. Additional recycled water connections may have to be restricted to reduce the demand on the system.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 1,600,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 1,600,000
Project Balance	\$ -	Additional Funding Required	\$ 1,600,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design			\$100,000	\$1,500,000		\$ 1,600,000
Construction Costs						\$ -
						\$ -
TOTAL	\$ -	\$ -	\$ 100,000	\$ 1,500,000	\$ -	\$ 1,600,000

Funding Sources	Percentage	2011 Funding Amount
Recycled Water FCCs	50%	\$0
Recycled Water Rates	50%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Recycled Water

Project Number: 10011
Project Name: Recycled Water System Improvements
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Brink **Board Approval:** 11/08/10

Project Description:

The project involves the development of a recycled water model in compliance with the settlement agreement with CSPA. The recycled water model must be complete by December 2010. In addition, if the model outcome indicates that upgrades to the recycled water distribution system are necessary to help prevent future recycled water spills, then the District is obligated to make repairs to the distribution system before the settlement agreement can be terminated.

Basis for Priority:

Development of recycled water model is a requirement of the settlement agreement. The model must be complete by December 2010.

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 47,051
Spent to Date:	\$ 27,051	2011-2015 Planned Expenditures:	\$ 120,000
Cash flow through end of year:	\$ 20,000	Total Project Estimate:	\$ 167,051
Project Balance	\$ 2,949	Additional Funding Required	\$ 117,051

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$ 20,000					\$ 20,000
Construction	\$ 100,000					\$ 100,000
						\$ -
TOTAL	\$ 120,000	\$ -	\$ -	\$ -	\$ -	\$ 120,000

Funding Sources	Percentage	2011 Funding Amount
Recycled Water Reserves	100%	\$117,051
		\$0
		\$0
Total	100%	\$117,051

Funding Comments: This project does not add any new capacity to the recycled water system, so the funding source is 100% recycled water reserves

2011 CAPITAL IMPROVEMENT PLAN

Program: Recycled Water

Project Number: NEW
Project Name: Recycled Tank Recoating Program
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Rice **Board Approval:** 11/08/10

Project Description:

The District operates four recycled water storage tanks. Two of these tanks have never been inspected for a condition assessment of the exterior and interior coatings. These are the Bridlewood and Village C welded steel storage tanks. This project would allow for an interior and exterior inspection of the tank coatings.
 The proposed budget involves a survey of both welded steel tanks, identification and prioritization of repair needs, and bidding for coating remediation services if required. Emphasis will be placed on inspection of interior coatings which are difficult to access and schedule downtimes for repairs.

Basis for Priority:

Project purpose is to maintain existing assets and prolong their useful service life and reliability.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 15,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 15,000
Project Balance	\$ -	Additional Funding Required	\$ 15,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$ 15,000					\$ 15,000
Construction Costs		*	*	*	*	\$ -
						\$ -
TOTAL	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ 15,000

Funding Sources	Percentage	2011 Funding Amount
RW FCC's	0%	\$0
RW rates	100%	\$15,000
		\$0
Total	100%	\$15,000

Funding Comments: Project involves no planned increase in capacity, therefore funding is 100% recycled water rates.

Hydroelectric Projects

2011 CAPITAL IMPROVEMENT PLAN

Program: **Hydroelectric**

Project Number: 03011H
Project Name: Forebay Dredging/Upgrades
Project Category: Regulatory Requirements

Priority: 1 **PM:** Eymann **Board Approval:** 11/08/10

Project Description:

The reservoir is currently restricted 3 feet below the spillway crest by DSOD and FERC. DSOD requires that the dam's stability be improved to minimum standards. Reservoir sediments negatively impact El Dorado Project operations and have reached concerning levels. The spillway outfall requires remediation as well as the two unused penstocks within the dam which require permanent abandonment. The District is 80% complete with the preliminary alternatives evaluation to complete these regulatory requirements and outstanding maintenance issues and to evaluate water reliability and power generation revenue enhancements provided by increasing reservoir storage. This work is required to meet DSOD and FERC stability criteria, avoid further or permanent reservoir storage restriction, and improve drinking water and power generation reliability. DSOD requires a remediation plan and schedule by the end of 2010. Construction costs are not yet included until the full scope and schedule for the project is determined.

Basis for Priority:

DSOD/FERC dam safety mandate. Currently have operational limitations, decrease in power generation income, decrease in drinking water reliability.

Project Financial Summary:			
Funded to Date:	\$ 2,312,741	Expenditures through end of year:	\$ 1,280,391
Spent to Date:	\$ 1,160,391	2011-2015 Planned Expenditures:	\$ 800,000
Cash flow through end of year:	\$ 120,000	Total Project Estimate:	\$ 2,080,391
Project Balance	\$ 1,032,350	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$250,000	\$100,000				\$ 350,000
Design	\$ 150,000	\$ 300,000	*			\$ 450,000
Construction			*	*	*	\$ -
						\$ -
TOTAL	\$ 400,000	\$ 400,000	\$ -	\$ -	\$ -	\$ 800,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: 04005H
Project Name: Powerhouse Upgrades
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Eymann **Board Approval:** 11/08/10

Project Description:

The following powerhouse upgrade projects are proposed: 1 - Install upper level emergency egress; 2 - Repair TSV vaults from groundwater intrusion; 3 - Install fiber cabling; 4 - Replace Allen Bradley.

In 2011 we anticipate the completion of project 1. Projects 2-4 are of lower priority.

Basis for Priority:

These are needed repair/replacement and safety improvements

Project Financial Summary:			
Funded to Date:	\$ 427,556	Expenditures through end of year:	\$ 401,442
Spent to Date:	\$ 381,442	2011-2015 Planned Expenditures:	\$ 150,000
Cash flow through end of year:	\$ 20,000	Total Project Estimate:	\$ 551,442
Project Balance	\$ 26,114	Additional Funding Required	\$ 123,886

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$20,000	\$20,000				\$ 40,000
Construction	\$80,000	\$30,000				\$ 110,000
						\$ -
TOTAL	\$ 100,000	\$ 50,000	\$ -	\$ -	\$ -	\$ 150,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$39,160
Water Rates	47%	\$34,726
		\$0
Total	100%	\$73,886

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: 06030H
Project Name: Bridge Replacement at Camp 2
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Eymann **Board Approval:** 11/08/10

Project Description:

The road into Camp 2 contains an elevated bridge section that has large rocks intruding into the structure. These rocks need to be scaled from the adjacent slope to prevent a catastrophic slide which could destroy the bridge. The bridge foundation piers are not sufficiently load rated to allow access by vehicles larger than that of a pick-up truck. This project provides funding for environmental permitting, engineering, design, and construction. A preliminary design report was prepared in 2010. Several options for repair or replacement were investigated. Full bridge replacement was investigated using either steel or wood. The steel replacement bridge is the most feasible of the options, with an estimated construction cost of \$650,000.

Basis for Priority:

Access road repair and replacement is necessary in order to maintain the safety and reliability of the El Dorado Canal system. This access road may become unusable and thereby prevent required maintenance and de-icing of the canal at this critical location.

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 31,565
Spent to Date:	\$ 11,565	2011-2015 Planned Expenditures:	\$ 700,000
Cash flow through end of year:	\$ 20,000	Total Project Estimate:	\$ 731,565
Project Balance	\$ 18,435	Additional Funding Required	\$ 681,565

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$10,000					\$ 10,000
Design	\$ 40,000	*				\$ 40,000
Construction		\$ 650,000				\$ 650,000
						\$ -
TOTAL	\$ 50,000	\$ 650,000	\$ -	\$ -	\$ -	\$ 700,000

Funding Sources	Percentage	2011 Funding Amount
Water FCC's	53%	\$16,729
Water Reserves	47%	\$14,836
		\$0
Total	100%	\$31,565

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: 07013H
Project Name: Echo Lake Dam Evaluation
Project Category: Regulatory Requirements
Priority: 1 **PM:** Eymann **Board Approval:** 11/08/10

Project Description:

Further Part 12D studies are required for Echo Lake Dam: the studies include performing new hydrologies and stability analyzes. A supplemental Flood Operations plan was developed to mitigate potential dam overtopping in the design storm. These evaluations have been completed and are currently under FERC/DSOD and FERC Part 12D Independent Consultant Review. These studies have been mandated by the Division of Safety of Dams and the Federal Energy Regulatory Commission.

Basis for Priority:

FERC and DSOD compliance

Project Financial Summary:			
Funded to Date:	\$ 371,951	Expenditures through end of year:	\$ 99,375
Spent to Date:	\$ 94,375	2011-2015 Planned Expenditures:	\$ 100,000
Cash flow through end of year:	\$ 5,000	Total Project Estimate:	\$ 199,375
Project Balance	\$ 272,576	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$100,000	*	*			\$ 100,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: 07032H
Project Name: Camp 5 Improvements
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

Camp 5 is located in Pollock Pines and serves as the main headquarters for Hydroelectric operations staff. Since acquiring Project 184 from PG&E, minimal improvements have been made to the site. All of the concrete and paving has deteriorated and rainfall site drainage is insufficient. These deficiencies cause dangerous driving conditions and icy roads in the winter months which is hazardous to staff. This project includes grading and paving of most of the driving areas, addition of storm drains to direct rainfall away from the site, and a concrete area for truck wash down. Also included is installation of a retaining wall below the existing office building to provide a structurally sound foundation. Camp 5 is the headquarters for all canal, flume, and power generation staff. A safe work site will insure staff safety at the site.

Basis for Priority:

Although not mandated by regulation the Camp 5 headquarters driving area will continue to deteriorate and present unsafe conditions for staff. Rainfall will continue to accumulate in the poorly graded area causing ice and snow accumulation in the winter.

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 1,721
Spent to Date:	\$ 1,721	2011-2015 Planned Expenditures:	\$ 2,000,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 2,001,721
Project Balance	\$ 48,279	Additional Funding Required	\$ 1,951,721

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design			\$200,000			\$ 200,000
Construction Costs				\$1,800,000		\$ 1,800,000
						\$ -
TOTAL	\$ -	\$ -	\$ 200,000	\$ 1,800,000	\$ -	\$ 2,000,000

Funding Sources	Percentage	2011 Funding Amount
Water FCC's	53%	\$0
Water Reserves	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: 08002H
Project Name: Flume 9 Replacement
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

EID staff has reviewed recommendations stated in the Flume Conditions Evaluation Report prepared by Carlton Engineering. According to the report, thirteen flumes are near or beyond the estimated 50-year service life of wooden flumes with additional flumes require various levels of repair. Additionally, numerous existing canal sections need to be upgraded or replaced to increase the reliability of the water conveyance system. After dynamic flow testing was completed on the canal in November 2003, priorities were established for flume and canal replacement. This project will replace Flume 9 which consist of replacing approximately 141 feet of wooden flume with a new concrete flume and remove hazardous trees and rock from the hillside to reduce the potential for future flume damage. This project will also include erosion damage which threatens Flume 10. The project began construction in 2010. Project close-out is expected in 2011.

Basis for Priority:

The flume system will continue to deteriorate potentially causing flume failures that can spill sediment and torrents of water into environmentally sensitive areas.

Project Financial Summary:			
Funded to Date:	\$ 1,977,038	Expenditures through end of year:	\$ 2,037,023
Spent to Date:	\$ 237,023	2011-2015 Planned Expenditures:	\$ 100,000
Cash flow through end of year:	\$ 1,800,000	Total Project Estimate:	\$ 2,137,023
Project Balance	\$ (59,985)	Additional Funding Required	\$ 159,985

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction	\$100,000					\$ 100,000
						\$ -
TOTAL	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Funding Sources	Percentage	2011 Funding Amount
Water FCC's	53%	\$84,792
Water Reserves	47%	\$75,193
		\$0
Total	100%	\$159,985

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: 08003H
Project Name: Flume 41 Replacement
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

EID staff has reviewed recommendations stated in the Flume Conditions Evaluation Report prepared by Carlton Engineering. According to the report, thirteen flumes are near or beyond the estimated 50-year service life of wooden flumes with additional flumes require various levels of repair. Additionally, numerous existing canal sections need to be upgraded or replaced to increase the reliability of the water conveyance system. After dynamic flow testing was completed on the canal in November 2003, priorities were established for flume and canal replacement. This project will replace Flume 41 which consists of 700 feet of wooden flume with a new concrete flume and remove hazardous trees and rocks from the hillside to reduce the potential for future flume damage. In addition, the project scope will include access road improvements to reduce construction costs by reducing helicopter use and for canal and flume maintenance. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply. In addition this project will help ensure reliability of power generation. Road improvements are scheduled for 2011, ahead of the flume replacement project scheduled for 2012.

Basis for Priority:

The flume system will continue to deteriorate potentially causing flume failures that can spill sediment and water into environmentally sensitive areas.

Project Financial Summary:			
Funded to Date:	\$ 514,581	Expenditures through end of year:	\$ 448,502
Spent to Date:	\$ 348,502	2011-2015 Planned Expenditures:	\$ 4,500,000
Cash flow through end of year:	\$ 100,000	Total Project Estimate:	\$ 4,948,502
Project Balance	\$ 66,079	Additional Funding Required	\$ 4,433,921

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 800,000	\$ 3,550,000	\$ 150,000			\$ 4,500,000
						\$ -
TOTAL	\$ 800,000	\$ 3,550,000	\$ 150,000	\$ -	\$ -	\$ 4,500,000

Funding Sources	Percentage	2011 Funding Amount
Water FCC's	53%	\$388,978
Water Reserves	47%	\$344,943
		\$0
Total	100%	\$733,921

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: 08004H
Project Name: Flume 46A and 47 Replacement
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

EID staff has reviewed recommendations stated in the Flume Conditions Evaluation Report prepared by Carlton Engineering. According to the report, thirteen flumes are near or beyond the estimated 50-year service life of wooden flumes with additional flumes requiring various levels of repair. Additionally, numerous existing canal sections need to be upgraded or replaced to increase the reliability of the water conveyance system. After dynamic flow testing was completed on the canal in November 2003, priorities were established for flume and canal replacement. This project will replace Flumes 46A and 47 which consist of 140 feet of wooden flume with a new wood or concrete flume by District crews or a contractor and remove hazardous trees and rocks from the hillside to reduce the potential for future flume damage. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply. In addition this project will help ensure reliability of power generation.

Basis for Priority:

These are projects that provide measurable progress toward achieving the District's goals, but over which the District has a moderate level of control as to when they should be performed.

Project Financial Summary:			
Funded to Date:	\$ 146,503	Expenditures through end of year:	\$ 65,469
Spent to Date:	\$ 65,469	2011-2015 Planned Expenditures:	\$ 1,450,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 1,515,469
Project Balance	\$ 81,034	Additional Funding Required	\$ 1,368,966

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$ 100,000					\$ 100,000
Construction				\$600,000	\$750,000	\$ 1,350,000
						\$ -
TOTAL	\$ 100,000	\$ -	\$ -	\$ 600,000	\$ 750,000	\$ 1,450,000

Funding Sources	Percentage	2011 Funding Amount
Water FCC's	53%	\$10,052
Water Reserves	47%	\$8,914
		\$0
Total	100%	\$18,966

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: 08005H
Project Name: Spillway 47C Upgrades
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Brink **Board Approval:** 11/08/10

Project Description:

In 2007, staff visited spillway locations with the USFS to evaluate each site and develop a plan as required by 4(e) Condition C41. The approved plan requires the evaluation of Spillway 47C to determine its structural integrity and determine methods of remediation of the deteriorated structure and channel. By agreement, the improvements to SW47C must be completed by 2012. Canal and spillway replacements are necessary in order to maintain reliability of the water supply. In addition this project will help ensure reliability of power generation. SW47C was identified as requiring improvements to the spill channel before being put into service as a preferred spillway. Staff has determined that channel improvements are not practical and have identified other facilities to protect the 14-mile Tunnel from debris and ice. Those facilities include: improvements to SW46 to provide for automated canal release, construction of a trash rack and bypass box culvert at the 14-Mile Tunnel entrance, and abandonment of SW47C. Land acquisitions may be required associated with the bypass culvert at the 14-Mile tunnel, and temporary construction easements may also be required for the project.

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:			
Funded to Date:	\$ 82,879	Expenditures through end of year:	\$ 82,815
Spent to Date:	\$ 72,815	2011-2015 Planned Expenditures:	\$ 2,400,000
Cash flow through end of year:	\$ 10,000	Total Project Estimate:	\$ 2,482,815
Project Balance	\$ 64	Additional Funding Required	\$ 2,399,936

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$400,000					\$ 400,000
Construction		\$2,000,000				\$ 2,000,000
						\$ -
TOTAL	\$ 400,000	\$ 2,000,000	\$ -	\$ -	\$ -	\$ 2,400,000

Funding Sources	Percentage	2011 Funding Amount
Water FCC's	53%	\$211,966
Water Reserves	47%	\$187,970
		\$0
Total	100%	\$399,936

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: 08013H
Project Name: El Dorado County Hydroelectric Development Plan
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Megerdigian **Board Approval:** 11/08/10

Project Description:

In coordination with the EDC Water Agency, this project is to review the potential of new hydroelectric projects within El Dorado County which are capable of self funding through power revenues and would provide new water supply infrastructure. EID and EDCWA jointly funded, 50/50, a contract with EN2 Resources to prepare a county-wide plan that identified potential new hydroelectric generation sites. That report is complete and through the course of the study, a grant opportunity to study more generation projects throughout the county was received from the California Energy Commission.

Basis for Priority:

Project is underway with the grant declaration approved by the Board and the grant awarded by the CEC.

Project Financial Summary:			
Funded to Date:	\$ 475,000	Expenditures through end of year:	\$ 303,565
Spent to Date:	\$ 253,565	2011-2015 Planned Expenditures:	\$ 70,000
Cash flow through end of year:	\$ 50,000	Total Project Estimate:	\$ 373,565
Project Balance	\$ 171,435	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$70,000					\$ 70,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 70,000	\$ -	\$ -	\$ -	\$ -	\$ 70,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: NEW
Project Name: Canals and Flumes System Upgrades
Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

EID staff has reviewed recommendations stated in the Flume Conditions Evaluation Report prepared by Carlton Engineering. According to the report, thirteen flumes are near or beyond the estimated 50-year service life of wooden flumes with additional flumes require various levels of repair. Additionally, numerous existing canal sections need to be upgraded or replaced to increase the reliability of the water conveyance system. After dynamic flow testing was completed on the canal in November 2003, priorities were established for flume and canal replacement. Projects anticipated include flume repair/replacement of transitions at flume 42-43 and 48; spillway 42; and construct a bridge at Camp M. Also included is labor, materials, lumber, helicopter contract work, and equipment for support from Camp 5 crews. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply.

This project continues the work of the previous Project No. 10008

At the El Dorado Canal Spillway 2, all the existing hydraulic operated spillways need to be converted to hydraulic accumulators in order to improve reliability. Currently the hydraulic rams are operated by a 12V DC motor/pump. The opening energy is stored in the batteries. With remote generators and cold temperatures, and no AC power, the reliability of this system is compromised. By using hydraulic accumulators, the stored energy is in the compressed gas/over oil accumulator, and only a small amount of DC energy is needed to open the porting valves.

Basis for Priority:

These are projects that provide measurable progress toward achieving the District's goals, but over which the District has a moderate level of control as to when they should be performed.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 1,450,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 1,450,000
Project Balance	\$ -	Additional Funding Required	\$ 1,450,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$ 250,000
Construction Costs	\$300,000	\$150,000	\$450,000	\$150,000	\$150,000	\$ 1,200,000
						\$ -
TOTAL	\$ 350,000	\$ 200,000	\$ 500,000	\$ 200,000	\$ 200,000	\$ 1,450,000

Funding Sources	Percentage	2011 Funding Amount
Water FCC's	53%	\$185,500
Water Reserves	47%	\$164,500
		\$0
Total	100%	\$350,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: NEW
Project Name: Caples Lake Dam Regulatory Improvements

Project Category: Regulatory Requirements

Priority: 1 PM: Eymann Board Approval: 11/08/10

Project Description:

The 85 year-old outlet gates were replaced in 2008. Further Part 12D studies and remediations are required for Caples Lake Main and Auxiliary Dams: the studies include performing new hydrologies, stability analyzes, structural analyzes. These studies are under FERC/DSOD and the 2009 Part 12D Independant Consultant. A piezometer evaluation report has been prepared and will be submitted to FERC and DSOD for review. It will be determined whether new piezometers will need to be constructed. These studies and repairs have been mandated by the Division of Safety of Dams and the Federal Energy Regulatory Commission. Additional geotechnical research has been required by the 2009 IC which is currently underway.

This project continues the work of the previously approved and funded PN 07012H.

Basis for Priority:

Non-compliance with FERC and DSOD requirements

Project Financial Summary:			
Funded to Date:	\$ 2,648,201	Expenditures through end of year:	\$ 2,360,406
Spent to Date:	\$ 2,310,406	2011-2015 Planned Expenditures:	\$ 160,000
Cash flow through end of year:	\$ 50,000	Total Project Estimate:	\$ 2,520,406
Project Balance	\$ 287,795	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$50,000	\$50,000				\$ 100,000
Design	\$ 10,000					\$ 10,000
Construction	\$ 50,000					\$ 50,000
						\$ -
TOTAL	\$ 110,000	\$ 50,000	\$ -	\$ -	\$ -	\$ 160,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: New
Project Name: Diversion Dam Fish Screen
Project Category: Reliability & Service Level Improvements

Priority: 3 **PM:** Eymann **Board Approval:** 11/08/10

Project Description:

The existing fish screens on the El Dorado Diversion Dam are susceptible to ice and debris plugging. The existing fish screens and air supply manifolds are also reaching end of life as spot failures have occurred. Investigations and trial installations of alternate screening methods will begin in 2012. If it is determined that the alternate method is superior to the existing, the existing will be replaced. If the alternate is not superior, an in-kind replacement will occur. If screen or manifold failure rates increase, it may become necessary to replace the screens sooner than than 2013-2014.

Basis for Priority:

Anticipated maintenance need and the opportunity to improve the efficiency and reliability of the fish screen system.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 700,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 700,000
Project Balance	\$ -	Additional Funding Required	\$ 700,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning		\$50,000				\$ 50,000
Design			\$150,000			\$ 150,000
Construction Costs				\$500,000		\$ 500,000
						\$ -
TOTAL	\$ -	\$ 50,000	\$ 150,000	\$ 500,000	\$ -	\$ 700,000

Funding Sources	Percentage	2011 Funding Amount
Water Reserves	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: NEW
Project Name: Echo Conduit Replacement
Project Category: Reliability & Service Level Improvements

Priority: 1 PM: Eymann Board Approval: 11/08/10

Project Description:

The Echo conduit is a 36-inch steel pipe that is situated above grade directly above Highway 50 and delivers water from Echo Lake to an open ditch, the tunnel, and ultimately to the South Fork of the American River for diversion into the El Dorado Canal. The conduit is the sole means of bringing 1,890 acre-feet of pre-1914 water rights and direct diversion water to the SFAR for District uses. The water also constitutes substantial annual power generation. In 2005, the tunnel portion of the Echo Lake water conveyance system was slip-lined under an emergency project due to multiple cave-ins. The conduit portion of the conveyance and its supporting timber foundation has reached the end of its useful life. Snow loading has crushed the conduit at several locations and, in conjunction with corrosion, has caused cracking at the joints. One of the conduit sections failed in 2003 and in 2009 new failures were observed requiring the District to decrease the flow in the conduit by 1/3 until the conduit can be replaced. Various conduit replacement alternatives need to be evaluated. In the meantime, before replacement, the conduit will continue to be "band-aided" and operated at a reduced flow rate.

Basis for Priority:

FERC has requested a plan and schedule to replace or repair the conduit. This project will maintain existing assets and provide increased water delivery safety, reliability, and power generation.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ 10,000
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 3,735,000
Cash flow through end of year:	\$ 10,000	Total Project Estimate:	\$ 3,745,000
Project Balance	\$ (10,000)	Additional Funding Required	\$ 3,745,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$60,000					\$ 60,000
Design	\$100,000	\$75,000				\$ 175,000
Construction Costs			\$3,500,000	*	*	\$ 3,500,000
						\$ -
TOTAL	\$ 160,000	\$ 75,000	\$ 3,500,000	\$ -	\$ -	\$ 3,735,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$90,100
Water Reserves	47%	\$79,900
		\$0
Total	100%	\$170,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: NEW
Project Name: El Dorado Diversion Dam Upgrades
Project Category: Regulatory Requirements

Priority: 1 **PM:** Eymann **Board Approval:** 11/08/10

Project Description:

Project includes: 1- The screen forebay needs to be pinned to the foundation to resist buoyancy. 2- The fish ladder will be improved by re-configuration and extension per CDFG fish passage requirements. 3 - Protection of air storage tanks to reduce the frequency of freezing the fish screens during blow-down. The fish ladder aspect of the project is awaiting approval by DFG with construction planned for summer/fall 2012.

This item includes support from EID's Camp 5 Operations and Maintenance crews including labor, materials and equipment to complete the required modifications and repairs to the Diversion structure facilities.

Basis for Priority:

Non-compliance with FERC and DFG requirements.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	\$ 10,000
Spent to Date:		2011-2015 Planned Expenditures:	\$ 810,000
Cash flow through end of year:	\$ 10,000	Total Project Estimate:	\$ 820,000
Project Balance	\$ (10,000)	Additional Funding Required	\$ 820,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$ 40,000	\$60,000				\$ 60,000
Construction		\$750,000				\$ 750,000
						\$ -
TOTAL	\$ 40,000	\$ 810,000	\$ -	\$ -	\$ -	\$ 810,000

Funding Sources	Percentage	2011 Funding Amount
Water FCC's	53%	\$26,500
Water Rates	47%	\$23,500
		\$0
Total	100%	\$50,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: NEW
Project Name: Flume 3 Replacement
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

EID staff has reviewed recommendations stated in the Flume Conditions Evaluation Report prepared by Carlton Engineering. According to the report, thirteen flumes are near or beyond the estimated 50-year service life of wooden flumes with additional flumes require various levels of repair. Additionally, numerous existing canal sections need to be upgraded or replaced to increase the reliability of the water conveyance system. After dynamic flow testing was completed on the canal in November 2003, priorities were established for flume and canal replacement. This project will replace Flume 3 which consist of 125 feet of wooden flume with a new wooden flume and remove hazardous trees and rocks from the hillside to reduce the potential for future flume damage. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply. In addition this project will help ensure reliability of power generation.

Basis for Priority:

These are projects that provide measurable progress toward achieving the District's goals, but over which the District has a moderate level of control as to when they should be performed.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ 700,000
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 700,000
Cash flow through end of year:	\$ 700,000	Total Project Estimate:	\$ 1,400,000
Project Balance	\$ (700,000)	Additional Funding Required	\$ 1,400,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction		\$ 700,000				\$ 700,000
						\$ -
TOTAL	\$ -	\$ 700,000	\$ -	\$ -	\$ -	\$ 700,000

Funding Sources	Percentage	2011 Funding Amount
Water FCC's	53%	\$371,000
Water Reserves	47%	\$329,000
		\$0
Total	100%	\$700,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number:

NEW

Project Name:

Flume 39-40 Replacement

Project Category:

Reliability & Service Level Improvements

Priority:

2

PM:

Noel

Board Approval:

11/08/10

Project Description:

EID staff has reviewed recommendations stated in the Flume Conditions Evaluation Report prepared by Carlton Engineering. According to the report, thirteen flumes are near or beyond the estimated 50-year service life of wooden flumes with additional flumes require various levels of repair. Additionally, numerous existing canal sections need to be upgraded or replaced to increase the reliability of the water conveyance system. After dynamic flow testing was completed on the canal in November 2003, priorities were established for flume and canal replacement. This project will replace 550 feet of old wooden flume with new wooden flume and remove hazardous trees and rocks from the hillside to reduce the potential for future flume damage. This project will be split into two outages and completed by District crews. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply. In addition this project will help ensure reliability of power generation.

For 2011 - 320 feet of on-grade flume will be replaced. Design for drainage ditches and a retaining wall will be required.

For 2012 - 200 feet of elevated sections crossing a drainage will be replaced and Spillway 22 will be upgraded.

Basis for Priority:

The flume system will continue to deteriorate potentially causing flume failures that can spill sediment and torrents of water into environmentally sensitive areas.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 2,750,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 2,750,000
Project Balance	\$ -	Additional Funding Required	\$ 2,750,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$100,000	\$150,000				\$ 250,000
Construction Costs	\$1,000,000	\$1,500,000				\$ 2,500,000
						\$ -
TOTAL	\$ 1,100,000	\$ 1,650,000	\$ -	\$ -	\$ -	\$ 2,750,000

Funding Sources	Percentage	2011 Funding Amount
Water FCC's	53%	\$583,000
Water Reserves	47%	\$517,000
		\$0
Total	100%	\$1,100,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: NEW
Project Name: Flume 4 Replacement
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

EID staff has reviewed recommendations stated in the Flume Conditions Evaluation Report prepared by Carlton Engineering. According to the report, thirteen flumes are near or beyond the estimated 50-year service life of wooden flumes with additional flumes require various levels of repair. Additionally, numerous existing canal sections need to be upgraded or replaced to increase the reliability of the water conveyance system. After dynamic flow testing was completed on the canal in November 2003, priorities were established for flume and canal replacement. This project will replace Flume 4 which consist of 400 feet of wooden flume with a new concrete flume, and remove hazardous trees and rocks from the hillside to reduce the potential for future flume damage. Also SW 5 will be upgraded and automated. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply. In addition this project will help ensure reliability of power generation.

Basis for Priority:

The flume system will continue to deteriorate potentially causing flume failures that can spill sediment and torrents of water into environmentally sensitive areas.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 2,900,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 2,900,000
Project Balance	\$ -	Additional Funding Required	\$ 2,900,000

Description of Work	Estimated Annual Expenditures					
	2011	2012	2013	2014	2015	Total
Study/Planning						\$ -
Design				\$200,000		\$ 200,000
Construction Costs					\$ 2,700,000	\$ 2,700,000
						\$ -
TOTAL	\$ -	\$ -	\$ -	\$ 200,000	\$ 2,700,000	\$ 2,900,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Reserves	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: NEW
Project Name: Flume 42-43 Replacement
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

EID staff has reviewed recommendations stated in the Flume Conditions Evaluation Report prepared by Carlton Engineering. According to the report, thirteen flumes are near or beyond the estimated 50-year service life of wooden flumes with additional flumes requiring various levels of repair. Additionally, numerous existing canal sections need to be upgraded or replaced to increase the reliability of the water conveyance system. After dynamic flow testing was completed on the canal in November 2003, priorities were established for flume and canal replacement. This project will replace 432 feet of wooden flume with a new concrete flume and remove hazardous trees and rocks from the hillside to reduce the potential for future flume damage. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply. In addition this project will help ensure reliability of power generation.

Basis for Priority:

The flume system will continue to deteriorate potentially causing flume failures that can spill sediment and torrents of water into environmentally sensitive areas.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 200,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 200,000
Project Balance	\$ -	Additional Funding Required	\$ 200,000

Description of Work	Estimated Annual Expenditures					
	2011	2012	2013	2014	2015	Total
Study/Planning						\$ -
Design					\$ 200,000	\$ 200,000
Construction						\$ -
						\$ -
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ 200,000

Funding Sources	Percentage	2011 Funding Amount
Water FCC's	53%	\$0
Water Reserves	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: NEW
Project Name: Flume 44 Replacement
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

EID staff has reviewed recommendations stated in the Flume Conditions Evaluation Report prepared by Carlton Engineering. According to the report, thirteen flumes are near or beyond the estimated 50-year service life of wooden flumes with additional flumes requiring various levels of repair. Additionally, numerous existing canal sections need to be upgraded or replaced to increase the reliability of the water conveyance system. After dynamic flow testing was completed on the canal in November 2003, priorities were established for flume and canal replacement. This project will replace 473 feet of old wooden flume with a new concrete flume and remove hazardous trees and rocks from the hillside to reduce the potential for future flume damage. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply. In addition this project will help ensure reliability of power generation.

Basis for Priority:

The flume system will continue to deteriorate potentially causing flume failures that can spill sediment and torrents of water into environmentally sensitive areas.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 2,200,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 2,200,000
Project Balance	\$ -	Additional Funding Required	\$ 2,200,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design			\$200,000			\$ 200,000
Construction Costs				\$200,000	\$1,800,000	\$ 2,000,000
						\$ -
TOTAL	\$ -	\$ -	\$ 200,000	\$ 200,000	\$ 1,800,000	\$ 2,200,000

Funding Sources	Percentage	2011 Funding Amount
Water FCC's	53%	\$0
Water Reserves	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: NEW
Project Name: Flume 45 Replacement
Project Category: Reliability & Service Level Improvements

Priority: 2 PM: Noel Board Approval: 11/08/10

Project Description:

EID staff has reviewed recommendations stated in the Flume Conditions Evaluation Report prepared by Carlton Engineering. According to the report, thirteen flumes are near or beyond the estimated 50-year service life of wooden flumes with additional flumes requiring various levels of repair. Additionally, numerous existing canal sections need to be upgraded or replaced to increase the reliability of the water conveyance system. After dynamic flow testing was completed on the canal in November 2003, priorities were established for flume and canal replacement. This project will replace Flume 45, which consist of 1000 feet of wooden flume, with new concrete flumes and remove hazardous trees and rocks from the hillside to reduce the potential for future flume damage. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply. In addition this project will help ensure reliability of power generation.

Basis for Priority:

The flume system will continue to deteriorate potentially causing flume failures that can spill sediment and torrents of water into environmentally sensitive areas.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 6,550,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 6,550,000
Project Balance	\$ -	Additional Funding Required	\$ 6,550,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design	\$150,000					\$ 150,000
Construction Costs			\$5,400,000	\$ 1,000,000		\$ 6,400,000
						\$ -
TOTAL	\$ 150,000	\$ -	\$ 5,400,000	\$ 1,000,000	\$ -	\$ 6,550,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$79,500
Water reserves	47%	\$70,500
		\$0
Total	100%	\$150,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: NEW
Project Name: Flume 48 Replacement
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Noel **Board Approval:** 11/08/10

Project Description:

EID staff has reviewed recommendations stated in the Flume Conditions Evaluation Report prepared by Carlton Engineering. According to the report, thirteen flumes are near or beyond the estimated 50-year service life of wooden flumes with additional flumes requiring various levels of repair. Additionally, numerous existing canal sections need to be upgraded or replaced to increase the reliability of the water conveyance system. After dynamic flow testing was completed on the canal in November 2003, priorities were established for flume and canal replacement. This project will replace 448 feet of wooden flume with a new concrete flume and remove hazardous trees and rocks from the hillside to reduce the potential for future flume damage. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply. In addition this project will help ensure reliability of power generation.

Basis for Priority:

The flume system will continue to deteriorate potentially causing flume failures that can spill sediment and torrents of water into environmentally sensitive areas.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 200,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 200,000
Project Balance	\$ -	Additional Funding Required	\$ 200,000

Description of Work	Estimated Annual Expenditures					
	2011	2012	2013	2014	2015	Total
Study/Planning						\$ -
Design					\$ 200,000	\$ 200,000
Construction						\$ -
						\$ -
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ 200,000

Funding Sources	Percentage	2011 Funding Amount
Water FCC's	53%	\$0
Water Reserves	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

Project Number: NEW
Project Name: Flume 52A Replacement
Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Brink **Board Approval:** 11/08/10

Project Description:

EID staff has reviewed recommendations stated in the Flume Conditions Evaluation Report prepared by Carlton Engineering. According to the report, thirteen flumes are near or beyond the estimated 50-year service life of wooden flumes, with additional flumes that require various levels of repair. Additionally, numerous existing canal sections need to be upgraded or replaced to increase the reliability of the water conveyance system. After dynamic flow testing was completed on the canal in November 2003, priorities were established for flume and canal replacement. This project will replace Flume 52A, which consist of 400-feet of wooden flume, with new concrete flumes and remove hazardous trees and rocks from the hillside to reduce the potential for future flume damage. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply. In addition this project will help ensure reliability of power generation.

Basis for Priority:

The flume system will continue to deteriorate potentially causing flume failures that can spill sediment and torrents of water into environmentally sensitive areas and resulting water outages.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 200,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 200,000
Project Balance	\$ -	Additional Funding Required	\$ 200,000

Description of Work	Estimated Annual Expenditures					
	2011	2012	2013	2014	2015	Total
Study/Planning						\$ -
Design					\$ 200,000	\$ 200,000
Construction						\$ -
						\$ -
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ 200,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: NEW
Project Name: Lake Aloha Dam Regulatory Improvements
Project Category: Regulatory Requirements

Priority: 1 **PM:** Eymann **Board Approval:** 11/08/10

Project Description:

Five of the twelve dams at Lake Aloha were repaired in 2004. Part 12D studies and remediation are required for Lake Aloha Dams: the studies included new hydrologies, stability analyzes and outlet tower reinforcement. The new hydrology and stability analysis has been completed and submitted to FERC for their review. The outlet tower reinforcement design is 60% complete. It is likely that construction will be in 2012 due to lengthy regulatory review periods. These studies and repairs have been mandated by DSOD and FERC.

This project continues the work of the previously approved and funded PN 04002H.

Basis for Priority:

Non-compliance with FERC and DSOD dam safety regulations.

Project Financial Summary:			
Funded to Date:	\$ 1,025,199	Expenditures through end of year:	\$ 744,635
Spent to Date:	\$ 669,635	2011-2015 Planned Expenditures:	\$ 250,000
Cash flow through end of year:	\$ 75,000	Total Project Estimate:	\$ 994,635
Project Balance	\$ 280,564	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 30,000	\$ 25,000				\$ 55,000
Design	\$ 10,000	\$ 10,000				\$ 20,000
Construction		\$ 175,000				\$ 175,000
						\$ -
TOTAL	\$ 40,000	\$ 210,000	\$ -	\$ -	\$ -	\$ 250,000

Funding Sources	Percentage	2011 Funding Amount
Water FCC's	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: NEW
Project Name: Silver Lake Dam Regulatory Improvements
Project Category: Regulatory Requirements

Priority: 1 **PM:** Eymann **Board Approval:** 11/08/10

Project Description:

In 2009, the outlet tower and gate were replaced. Part 12D studies and remediation work are required for Silver Lake Dam: the studies include performing new hydrologies, stability analyzes, and structural analyzes. FERC and the 2009 Part 12D Independent Consultant are reviewing the flood study. Significant further studies or remediation are anticipated. The gunite dam re-facing is planned for 2013.

This project continues the work of the previously approved and funded PN 06017H.

Basis for Priority:

Non-compliance with FERC license and DSOD dam safety program requirements.

Project Financial Summary:			
Funded to Date:	\$ 1,657,488	Expenditures through end of year:	\$ 1,092,551
Spent to Date:	\$ 1,072,551	2011-2015 Planned Expenditures:	\$ 1,240,000
Cash flow through end of year:	\$ 20,000	Total Project Estimate:	\$ 2,332,551
Project Balance	\$ 564,937	Additional Funding Required	\$ 675,063

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$100,000	\$140,000				\$ 240,000
Design						\$ -
Construction			\$1,000,000			\$ 1,000,000
						\$ -
TOTAL	\$ 100,000	\$ 140,000	\$ 1,000,000	\$ -	\$ -	\$ 1,240,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Rates	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Hydroelectric

Project Number: NEW
Project Name: SPI Land Purchase
Project Category: Reliability & Service Level Improvements
Priority: 3 **PM:** Hilton **Board Approval:** 11/08/10

Project Description:

Each construction project along the El Dorado Canal is located in confined areas with limited access. Staging areas for each project are required and a central location is necessary. Annually, the District pays a fee to Sierra Pacific Industries to lease the 3 to 5 acre parcel that is used for construction staging, equipment and material storage, helicopter flights and fueling, and all other miscellaneous needs for canal system maintenance. SPI may have plans in the near future to sell the parcel, which would jeopardize the lease and use by the District. This parcel is centrally located for the canal system and is key to continued maintenance of the El Dorado Canal and roads leading to the canal.

Basis for Priority:

The SPI land site is vital to the continued maintenance of the El Dorado Canal. In the future, when SPI decides to sell the parcel, the District may be without a centrally located staging area.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 100,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 100,000
Project Balance	\$ -	Additional Funding Required	\$ 100,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning		\$100,000				\$ 100,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000

Funding Sources	Percentage	2011 Funding Amount
Water FCCs	53%	\$0
Water Reserves	47%	\$0
		\$0
Total	100%	\$0

Funding Comments:

Recreation Projects

2011 CAPITAL IMPROVEMENT PLAN

Program: Recreation

Project Number: 09011R
Project Name: Pinecone Campground Tent Cabins
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Jagers **Board Approval:** 11/08/10

Project Description:

The Sly Park Master Plan includes a provision for tent platforms to be constructed in campsites 19-38 within the Pinecone Campground at Jenkinson Lake. These campsites are sloped. The slope is continually degraded by campers attempting to create a level spot for their tents. During periods of heavy rain the degraded ground is further eroded by the groundwater run-off. The scope of work for this project includes: Installing ten tent platforms and cabins in campsites 19 -38. The platforms will be constructed using blocks and fill which will provide a longer asset life and less maintenance than wood construction. Tent cabins, which have a higher per night rate than the unimproved campsite, could pay for themselves and the platforms within one year.

Basis for Priority:

Campsites 19-38 will continue to sustain environmental damage. Project is discretionary but improves campground and eliminates potential for continued erosion.

Project Financial Summary:			
Funded to Date:	\$ 33,750	Expenditures through end of year:	\$ 1,798
Spent to Date:	\$ 1,798	2011-2015 Planned Expenditures:	\$ 30,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 31,798
Project Balance	\$ 31,952	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$15,000	\$15,000				\$ 30,000
						\$ -
TOTAL	\$ 15,000	\$ 15,000	\$ -	\$ -	\$ -	\$ 30,000

Funding Sources	Percentage	2011 Funding Amount
Property Tax	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Recreation

Project Number: 09022R
Project Name: Sly Park Master Plan Implementation
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Jagers **Board Approval:** 11/08/10

Project Description:

The scope of this project will be to analyze and implement financially feasible park improvements as described in the Sly Park Master Plan. The addition of these new facilities could generate more income, protect the environment, and provide facilities that enhance the visitors experience. Scope of work for 2011 includes facility improvements needed to incorporate the now separate camping areas for Boy and Girl Scouts into one location at Scout Hill. Currently Scout Hill has no restroom facilities or water spigots. In 2009 the Boy Scouts organized a successful volunteer effort to install a waterline to the site. 2011 site improvements will include waterless toilets, water spigots, road and grounds improvements. The existing Girl Scout camp is located between two areas whose primary use is celebratory activities and large group camping, resulting in a crowded party atmosphere verses a nature experience. The master plan designates the existing Girl Scout Camp as cabin camping for the event center. Additional revenue could be realized by allowing event center visitors to participate in outdoor camping in the former Girls Scout camp prior to the construction of the future cabins.

Basis for Priority:

Continued increased risk to the environment (no restrooms), health and safety risk for scout campers, and revenue generation. The project is discretionary, but improves camping for visitors which is one of the goals of the Master Plan.

Project Financial Summary:			
Funded to Date:	\$ 45,000	Expenditures through end of year:	\$ 48,040
Spent to Date:	\$ 48,040	2011-2015 Planned Expenditures:	\$ 60,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 108,040
Project Balance	\$ (3,040)	Additional Funding Required	\$ 63,040

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$5,000	\$5,000				\$ 10,000
Design						\$ -
Construction Costs	\$25,000	\$25,000				\$ 50,000
						\$ -
TOTAL	\$ 30,000	\$ 30,000	\$ -	\$ -	\$ -	\$ 60,000

Funding Sources	Percentage	2011 Funding Amount
Property tax	100%	\$33,040
		\$0
		\$0
Total	100%	\$33,040

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Recreation

Project Number: 10002
Project Name: Hazel Creek Campground Restoration
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Jagers **Board Approval:** 11/08/10

Project Description:

Re-vegetate and restore Hazel Creek corridor to reduce erosion and sedimentation into Jenkinson Lake. Reconfigure campsite providing a 50 foot buffer from the creek. Rehabilitate Hazel camp sites with new vegetation - trees, shrubs, and groundcover. Install new bridges at the trail crossing of Hazel Creek and crossing of Unnamed Creek. The start date for this project is subject to approval of grant funding. The current campground contains 15 sites, the re-design reduces the number to 12. However the current redesign calls for 2 wood cabins, the additional revenue for these cabins makes up all but about \$4,000 in annual revenue lost by the reduction in sites.

Basis for Priority:

This project is in outlined in the Sly Park Master Plan.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 153,466
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 153,466
Project Balance	\$ -	Additional Funding Required	\$ 153,466

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$153,466					\$ 153,466
						\$ -
TOTAL	\$ 153,466	\$ -	\$ -	\$ -	\$ -	\$ 153,466

Funding Sources	Percentage	2011 Funding Amount
Water Reserves	100%	\$153,466
Current Grant funding		\$0
		\$0
Total	100%	\$153,466

Funding Comments: Grant application has been submitted to fund the full cost of the project.

2011 CAPITAL IMPROVEMENT PLAN

Program: Recreation

Project Number: 10013
Project Name: Vegetation Rehabilitation
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Jagers **Board Approval:** 11/08/10

Project Description:

Sly Park Recreation Area is an extremely popular regional destination attracting nearly 300,000 visitors annually. Due to the high visitor use, uncontrolled access, and beetle infestation many areas are now void of vegetation. Winter storms wash the soil from these areas into streams and the lake, resulting in further erosion and water quality concerns. Visitor conflicts occur at a higher percentage in the areas with decreased vegetation, increasing staff time and health and safety of the visitors. The El Dorado County special use permit for the implementation of the Sly Park Master Plan includes "Objective 7.4.4: Forest and Oak Woodland Resources. Protect and conserve forest and woodland resources for their wildlife habitat, recreation, water production, domestic livestock grazing, production of a sustainable flow of wood products, and aesthetic values". Planting and protecting native trees and shrubs with fencing and barrier rocks will reduce environmental damage by stabilizing soils. To reduce costs, small trees and shrubs will be transplanted from heavily vegetated locations whenever possible.

Basis for Priority:

Environmental damage will continue resulting in negative effects on recreation grounds, water quality, wildlife, fisheries, visitor experience and revenue.

Project Financial Summary:

Funded to Date:	\$ 15,000	Expenditures through end of year:	\$ 1,754
Spent to Date:	\$ 1,754	2011-2015 Planned Expenditures:	\$ 25,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 26,754
Project Balance	\$ 13,246	Additional Funding Required	\$ 11,754

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$ 25,000
						\$ -
TOTAL	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000

Funding Sources	Percentage	2011 Funding Amount
Property Tax	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Recreation

Project Number: NEW
Project Name: Sly Park Boundary and Border Fencing
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Jagers **Board Approval:** 11/08/10

Project Description:

A large portion of the south side of Sly Park Recreation Area along Mormon Immigrant Trail is currently fenced with barbed wire. The barbed wire is dangerous to authorized visitors and ineffective in excluding unregistered guests in group areas. Complaints from group area registered guests about intruding unregistered guests are numerous. Unregistered guest use traffic has created trails which are confused as official trails. Registered guests have been injured by the use of the unofficial trails. For example, a bicycle injury occurred last year when a 7-year old bicyclist followed a trail which ended leaving her into coming traffic on Mormon Immigrant Trail. Sly Park also needs improved border fencing between selected camping areas. Border fencing would reduce visitor conflict and protect natural resources.

Basis for Priority:

Fencing is needed for the protection and safety of Sly Park Recreation Area visitors and natural resources.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 75,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 75,000
Project Balance	\$ -	Additional Funding Required	\$ 75,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$50,000	\$25,000				\$ 75,000
						\$ -
TOTAL	\$ 50,000	\$ 25,000	\$ -	\$ -	\$ -	\$ 75,000

Funding Sources	Percentage	2011 Funding Amount
Property Tax	100%	\$50,000
		\$0
		\$0
Total	100%	\$50,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Recreation

Project Number: NEW
Project Name: Sly Park Day Use Parking Improvements
Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Jagers **Board Approval:** 11/08/10

Project Description:

The Sly Park Master Plan includes a provision for improved day use parking throughout the grounds. Sly Park Recreation Area continues to see increased use. In 2010 the recreation area day use filled to capacity on 3 consecutive weekends in July and 7 consecutive weekends in 2011 beginning in June and ending in August. The majority of the visitor-preferred day use areas provide undefined parking on dirt surfaces. Vegetation needed to prevent soil erosion and water quality degradation is being destroyed rapidly. Improving the day use parking would result in improved vegetation, water quality, and revenue. Requested funding is for required CEQA review and materials. Ground preparation would be done by in-house labor.

Basis for Priority:

Improving the day use parking would result in improved vegetation, water quality, and revenue.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 100,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 100,000
Project Balance	\$ -	Additional Funding Required	\$ 100,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$50,000	\$50,000				\$ 100,000
						\$ -
TOTAL	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ -	\$ 100,000

Funding Sources	Percentage	2011 Funding Amount
Property Tax	100%	\$50,000
		\$0
		\$0
Total	100%	\$50,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: Recreation

Project Number: NEW
Project Name: Sly Park Trail Improvements
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Jagers **Board Approval:** 11/08/10

Project Description:

The Sly Park Master Plan includes a provision for many trail improvements within the Sly Park Recreation Area. The 2011 funding request includes required CEQA review and materials for improvements.

Basis for Priority:

Adequate trails are needed for visitor safety, and protection of natural resources.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 35,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 35,000
Project Balance	\$ -	Additional Funding Required	\$ 35,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$15,000	\$5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 35,000
						\$ -
TOTAL	\$ 15,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 35,000

Funding Sources	Percentage	2011 Funding Amount
Property Tax	100%	\$15,000
		\$0
		\$0
Total	100%	\$15,000

Funding Comments:

General District Projects

2011 CAPITAL IMPROVEMENT PLAN

Program: **General District**

Project Number: 06044G
Project Name: New Headquarters Facility Phase III
Project Category: Regulatory Requirements
Priority: 1 **PM:** Sullivan **Board Approval:** 11/08/10

Project Description:

In January 2004, the Board authorized the preparation of a new master plan on the remaining HQ facilities. The project was split into phases. Phase III is the design and construction of the upper yard, shops and warehouse facilities. The third phase of the master plan is included in this CIP project. This project was approved by the Board for construction and the contract awarded in August 2008. However the project was put on hold in September 2008 due to the financial crisis. District staff will re-evaluate the scope and requirements of the project and provide a recommended course of action regarding the project.

Basis for Priority:

This project is still under the City of Placerville mandate to improve health and safety , access, parking and zoning requirements.

Project Financial Summary:			
Funded to Date:	\$ 6,963,450	Expenditures through end of year:	\$ 615,706
Spent to Date:	\$ 615,706	2011-2015 Planned Expenditures:	\$ 50,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 665,706
Project Balance	\$ 6,347,744	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 50,000	*	*	*	*	\$ 50,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	Percentage	2011 Funding Amount
99 Revenue Bonds	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: General District

Project Number: 08014G
Project Name: AMR and small meter replacement - Phase III
Project Category: Reliability & Service Level Improvements

Priority: 2 PM: Pritchard Board Approval: 11/08/10

Project Description:

This project replaces old, inaccurate, or broken small meters and adds automated meter read capability to new and existing meters. The project is MISSION REQUIRED because it provides for replacement of inaccurate and non-working meters and enables all meters to be read in time for billing. The LIABILITY/RISK to the District if this project is not implemented includes increased likelihood of employee injury, increased labor expenses for manually reading the meters and inputting manual data into the computer system, and loss of customer confidence due to inaccurate and estimated reads. REGULATORY: Continued implementation of meter replacement and AMR technology keeps the District in compliance with the CUWCC's MOU BMP# 4. SAFETY/SECURITY: This project reduces employee exposure to injury caused by scaling uneven and unsafe terrain; bending and stooping; raising heavy lids; and exposure to dangerous pets, snakes, spiders, and hazards on private property.

As of August 18, 2010 there are 19,563 meters that are equipped with radio read devices. There are currently 23,035 5/8", 3/4" and 1" meters that require upgrading to radio read. Projected funding for 2011 should allow the District to install approximately 300 additional radio read meters completing 47.5% of the District. Funding for 2012 should achieve 48% completion, 2013 69% and 2014 90%.

Basis for Priority:

Hiring of additional personnel, collection of inaccurate data, reduced customer satisfaction, increased likelihood of employee injuries, and non-compliance with BMP #4.

Project Financial Summary:

Funded to Date:	\$ 487,581	Expenditures through end of year:	\$ 487,581
Spent to Date:	\$ 442,977	2011-2015 Planned Expenditures:	\$ 6,100,000
Cash flow through end of year:	\$ 44,604	Total Project Estimate:	\$ 6,587,581
Project Balance	\$ -	Additional Funding Required	\$ 6,100,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Implementation	\$50,000	\$50,000	\$3,000,000	\$3,000,000		\$ 6,100,000
						\$ -
						\$ -
						\$ -
TOTAL	\$ 50,000	\$ 50,000	\$ 3,000,000	\$ 3,000,000	\$ -	\$ 6,100,000

Funding Sources	Percentage	2011 Funding Amount
Replacement Reserves	100%	\$50,000
		\$0
		\$0
Total	100%	\$50,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: General District

Project Number: 09005G
Project Name: IT Master Plan- Security Enhancements
Project Category: Reliability & Service Level Improvements

Priority: 2 PM: Eberhard Board Approval: 11/08/10

Project Description:

This project will enhance and implement plans, policies, and procedures required to ensure IT security. It includes the development, execution, and continuous improvement of an IT Security Plan that contains control policies and procedures. This includes purchase and implementation of an intrusion protection system (IPS), and the purchase and implementation of a network access control (NAC) system.

Basis for Priority:

If this project is not approved the District will not be able to effectively safeguard information against unauthorized use, disclosure, modification, damage, or loss. These projects address elevating concerns from government agencies to adequately protect utility information technology assets from cyber attack.

Project Financial Summary:

Funded to Date:	\$ 250,000	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 250,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 250,000
Project Balance	\$ 250,000	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Intrusion Protection System (IPS) install and refresh		\$100,000				\$ 100,000
Network Access Control (NAC) install and refresh			\$100,000			\$ 100,000
Firewall refresh	\$50,000					\$ 50,000
						\$ -
TOTAL	\$ 50,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ 250,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	58%	\$0
WW Rates	42%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: General District

Project Number: 10003
Project Name: IT - User System Reliability and Maintenance
Project Category: Reliability & Service Level Improvements
Priority: 3 **PM:** Ranstrom **Board Approval:** 11/08/10

Project Description:

Implement projects required to maintain end user system reliability and technology updates. This includes the implementation of user activity monitoring system, an upgrade/refresh of the user productivity applications, and thin client desktop appliance implementation.

Basis for Priority:

If this project is not approved the District's end-user computer system reliability and associated employee productivity would be affected.

Project Financial Summary:			
Funded to Date:	\$ 66,000	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 60,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 60,000
Project Balance	\$ 66,000	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Desktop/Productivity Apps	\$20,000		\$20,000	\$20,000		\$ 60,000
Virtual Desktop						\$ -
Utilities / Tools						\$ -
						\$ -
TOTAL	\$ 20,000	\$ -	\$ 20,000	\$ 20,000	\$ -	\$ 60,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	58%	\$0
WW Rates	42%	\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: General District

Project Number: 10004
Project Name: IT - Business Network Reliability
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Ranstrom **Board Approval:** 11/08/10

Project Description:

Implement projects required to maintain the reliability of the District's business network infrastructure. This includes implementing advanced network monitoring, refresh of the core switches and routers in datacenter, refresh of routers and LAN switches in district facilities.

Basis for Priority:

If this project is not approved the District's critical network infrastructure would be affected by lowering reliability and not meeting the capacity requirements of the information system integration projects planned for 2010.

Project Financial Summary:			
Funded to Date:	\$ 160,000	Expenditures through end of year:	\$ 105,757
Spent to Date:	\$ 105,757	2011-2015 Planned Expenditures:	\$ 664,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 769,757
Project Balance	\$ 54,243	Additional Funding Required	\$ 609,757

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Implementation		\$45,000	\$105,000	\$409,000		\$ 559,000
VoIP Hardware	\$ 75,000					\$ 75,000
Consulting	\$ 30,000					\$ 30,000
						\$ -
TOTAL	\$ 105,000	\$ 45,000	\$ 105,000	\$ 409,000	\$ -	\$ 664,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	58%	\$29,439
WW Rates	42%	\$21,318
		\$0
Total	100%	\$50,757

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: General District

Project Number: 10005
Project Name: IT Master Plan - Business Efficiency Improvements
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Ranstrom **Board Approval:** 11/08/10

Project Description:

Design, implement and integrate core information systems, databases, and end user applications in District-wide technology initiatives that provide access to data when and where it is required. For 2011 and 2012, integrate GIS, CIS, and CMMS, including technical upgrades to the GIS system, definition of GIS-related data and process standards, and populating geospatial asset information. Subsequent projects include GIS, CIS, CMMS, Asset Mgmt, Records Mgmt, Financial Mgmt, Property Mgmt, Fleet Mgmt, and LIMS.

Basis for Priority:

If this project is not approved the District will not be able to take advantage of employee efficiency and service delivery improvements enabled by integrating the functionality of the systems identified.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 1,290,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 1,290,000
Project Balance	\$ -	Additional Funding Required	\$ 1,290,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Integrate GIS + CIS + CMMS	\$400,000	\$300,000	\$140,000			\$ 840,000
Integrate SCADA + GIS			\$150,000	\$100,000	\$100,000	\$ 350,000
Implement WIMS	\$100,000					\$ 100,000
						\$ -
						\$ -
TOTAL	\$ 500,000	\$ 300,000	\$ 290,000	\$ 100,000	\$ 100,000	\$ 1,290,000

Funding Sources	Percentage	2011 Funding Amount
Water Reserves	50%	\$250,000
Wastewater Reserves	50%	\$250,000
		\$0
Total	100%	\$500,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: General District

Project Number: 10006
Project Name: IT - Server and Storage Reliability
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Ranstrom **Board Approval:** 11/08/10

Project Description:

Implement projects required to maintain the reliability, performance, capacity, and security of the District's server and storage infrastructure. This includes the refresh of core servers, the purchase of servers for the backup datacenter, SCADA server redesign and refresh, security surveillance server upgrade, the implementation of an application software patch management system, and environmental monitoring systems for the datacenters.

Basis for Priority:

If this project is not approved the District's critical server and storage infrastructure hosting essential SCADA and business systems would be effected by lowering reliability and not meet the functional requirements of the information system integration projects planned for 2010.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 1,495,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 1,495,000
Project Balance	\$ -	Additional Funding Required	\$ 1,495,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Datacenter server farm upgrade	\$250,000			\$125,000		\$ 375,000
Consolidated data storage expansion	\$40,000	\$40,000	\$40,000	\$380,000		\$ 500,000
Distributed Surveillance Servers	\$200,000			\$25,000		\$ 225,000
OS/Tools	\$60,000	\$50,000	\$50,000	\$55,000		\$ 215,000
Storage for Data Protection and Recovery		\$20,000		\$25,000		\$ 45,000
Environmental enclosures in facilities	\$100,000		\$35,000			\$ 135,000
TOTAL	\$ 650,000	\$ 110,000	\$ 125,000	\$ 610,000	\$ -	\$ 1,495,000

Funding Sources	Percentage	2011 Funding Amount
Water Reserves	100%	\$650,000
		\$0
		\$0
Total	100%	\$650,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: General District

Project Number: NEW
Project Name: 2011 Equipment Replacement
Project Category: Regulatory Requirements

Priority: 1 **PM:** Price **Board Approval:** 11/08/10

Project Description:

Diesel Particulate Filters (DPF) are State mandated for "on road" diesel fueled vehicles. Staff is requesting the purchase of ten additional DPF that are required to bring the district into compliance with the Air Resources Board . As equipment ages it becomes more costly to repair and maintain as well as the reliability to perform its designed job. Staff is also requesting to replace an easement machine that is used by the Wastewater Collections for pipe cleaning projects in remote access areas to aid in the prevention of sanitary sewer overflow (SSO).

QTY	Item Description	Unit Cost	Extended Cost
	Easement Machine	36,500.00	\$36,500.00
4	Diesel Retrofit devices	15,000.00	\$60,000.00
6	Diesel Retrofit devices	22,000.00	\$132,000.00
Total Equipment Cost			\$228,500.00

Basis for Priority:

As of 12/31/2010 eight of the districts on road diesel vehicles will be out of compliance with the State Air Resources Board mission standard and the remaining two more will follow 12/31/2011. The easement machine has been worked past the machines capabilities and needs replacement. This is a critical piece of equipment for the maintenance of the Districts remote sewer pipelines and plays a key role in reducing sanitary sewer overflows (SSO).

Project Financial Summary:			
Funded to Date:	\$ 196,837	Expenditures through end of year:	\$ 132,048
Spent to Date:	\$ 132,048	2011-2015 Planned Expenditures:	\$ 228,500
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 360,548
Project Balance	\$ 64,790	Additional Funding Required	\$ 163,710

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Equipment	\$ 228,500					\$ 228,500
						\$ -
						\$ -
						\$ -
TOTAL	\$ 228,500	\$ -	\$ -	\$ -	\$ -	\$ 228,500

Funding Sources	Percentage	2011 Funding Amount
Water Reserves	100%	\$163,710
		\$0
		\$0
Total	100%	\$163,710

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: General District

Project Number: NEW
Project Name: 2012 Equipment Replacement
Project Category: Regulatory Requirements

Priority: 1 **PM:** Price **Board Approval:** 11/08/10

Project Description:

Purchase of additional equipment and vehicles for District Operations. As in previous years, the District will assess and replace equipment that has met its useful life.

Basis for Priority:

Maintain and upgrade fleet of vehicles and equipment to meet regulatory requirements.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	\$ -
Spent to Date:		2011-2015 Planned Expenditures:	\$ 500,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 500,000
Project Balance	\$ -	Additional Funding Required	\$ 500,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Equipment		\$ 500,000				\$ 500,000
						\$ -
						\$ -
						\$ -
TOTAL	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000

Funding Sources	Percentage	2011 Funding Amount
Water Reserves	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: General District

Project Number: NEW
Project Name: Asset Management Program
Project Category: Master Planning
Priority: 2 **PM:** Mueller **Board Approval:** 11/08/10

Project Description:

Perform preliminary work towards development of an asset management program, including condition assessment of existing infrastructure and develop strategies to maintain and replace District facilities.

Basis for Priority:

Develop comprehensive management plan for District assets

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 50,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 50,000
Project Balance	\$ -	Additional Funding Required	\$ 50,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Study/Planning	\$ 50,000	*	*	*	*	\$ 50,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	Percentage	2011 Funding Amount
Water/Wastewater rates	100%	\$50,000
		\$0
		\$0
Total	100%	\$50,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: **General District**

Project Number: NEW
Project Name: Cellular Enhancement - EID HQ Buildings
Project Category: Reliability & Service Level Improvements

Priority: 3 **PM:** Ranstrom **Board Approval:** 11/08/10

Project Description:

This project involves installation of a dual band bi-directional amplifier for enhancement of Cellular coverage within the Main and Annex buildings. It will require installation of multiple antenna systems within the lower floor of the buildings and outside antennas to bring in a clean signal from all Cellular providers to be amplified by the BDA.

Basis for Priority:

Current Cellular coverage within the Main and Annex buildings is limited at best, especially on the lower floors, where signal loss is greater, and that includes the EOC center where communications are critical.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 20,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 20,000
Project Balance	\$ -	Additional Funding Required	\$ 20,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
BDA Purchase	\$ 10,000					\$ 10,000
Additional Hardware	\$ 3,000					\$ 3,000
Installation	\$ 7,000					\$ 7,000
						\$ -
TOTAL	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ 20,000

Funding Sources	Percentage	2011 Funding Amount
Water Reserves	100%	\$20,000
		\$0
		\$0
Total	100%	\$20,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: General District

Project Number: New
Project Name: Business Continuity & Availability
Project Category: Reliability & Service Level Improvements

Priority: 1 **PM:** Ranstrom **Board Approval:** 11/08/10

Project Description:

Implement projects required to implement and maintain system continuity through the District's business and SCADA network infrastructure. This includes implementing redundant designs for the network, server, VDI and storage infrastructures.

Basis for Priority:

If this project is not approved we will be unable to provide the redundancy to prevent critical infrastructure failures. These failures could impact our ability to provide core services to our customers with potential impact on the SCADA systems.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	\$ -
Spent to Date:		2011-2015 Planned Expenditures:	\$ 445,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 445,000
Project Balance	\$ -	Additional Funding Required	\$ 445,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
SAN/Virtualization System Replication	\$ 200,000					\$ 200,000
Network Redundancy	\$ 180,000					\$ 180,000
Consulting	\$ 25,000					\$ 25,000
Storage improvements	\$ 40,000					\$ 40,000
TOTAL	\$ 445,000	\$ -	\$ -	\$ -	\$ -	\$ 445,000

Funding Sources	Percentage	2011 Funding Amount
Water Rates	100%	\$445,000
		\$0
		\$0
Total	100%	\$445,000

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: General District

Project Number: NEW
Project Name: IT - SCADA/Radio Network Compliance
Project Category: Regulatory Requirements

Priority: 1 **PM:** **Board Approval:** 11/08/10

Project Description:

Implement projects required to meet FCC mandated conversion of District's radio network to narrowband by 2013, including the replacement of 50% of existing hilltop repeaters that are not compatible with narrowband broadcasting. The radio network is the primary communications system for most SCADA devices, and also provides voice communications for field staff across the District.

Basis for Priority:

If this project is not approved the District would be out of licensing compliance with FCC regulation. Half of the repeaters that must be changed in this project are also beyond their useful life of 20 years, so failure to perform the project could affect reliability of the District's radio communication infrastructure that supports the SCADA systems and field employees.

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 160,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 160,000
Project Balance	\$ -	Additional Funding Required	\$ 160,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
System Implementation		\$160,000				\$ 160,000
						\$ -
						\$ -
						\$ -
TOTAL	\$ -	\$ 160,000	\$ -	\$ -	\$ -	\$ 160,000

Funding Sources	Percentage	2011 Funding Amount
Water Reserves	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: General District

Project Number: **New**
Project Name: **IT - Wireless LAN access**
Project Category: **Reliability & Service Level Improvements**
Priority: **3** **PM:** **Ranstrom** **Board Approval:** **11/08/10**

Project Description:

Install WAPs (wireless access points) at EDH, Bass Lake, Deer Creek, Camp 5 facilities to provide high speed wireless network access to employees. Improves productivity for facility and field employees and contractors without physical network cabling required. Expands network access beyond the handfull of network drops in office work area. Reduces use of slower and more costly cellular data access from these sites.

Basis for Priority:

Supports broader employee access of Hansen and GIS applications driven by layoffs and efficiency improvements. Lack of simple high speed network access will hamper use of these key business applications.

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 50,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 50,000
Project Balance	\$ -	Additional Funding Required	\$ 50,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Wireless LAN access		\$50,000				\$ 50,000
						\$ -
						\$ -
						\$ -
TOTAL	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	Percentage	2011 Funding Amount
Water Reserves	100%	\$0
		\$0
		\$0
Total	100%	\$0

Funding Comments:

2011 CAPITAL IMPROVEMENT PLAN

Program: General District

Project Number: NEW
Project Name: Real Estate Program Master Plan
Project Category: Master Planning

Priority: 2 **PM:** Hilton **Board Approval:** 11/08/10

Project Description:

This project includes the solicitation of professional consulting services to develop a Real Estate Program Master Plan. The Master Plan will develop program management procedures and business processes required for the successful operation of the District's right of way acquisition needs and real property assets, including criteria and priorities for the disposition of surplus real property.

Basis for Priority:

The District is one of the largest property owners in El Dorado County, with real property assets that pose both substantial risks of liability costs and opportunities for significant revenues via the disposition of surplus property. New acquisitions are continual, and asset management is minimal at best. The District currently has only two full-time employees committed to the District's Real Estate Program; a program that because of the District's past dereliction has been extremely neglected. The development and documentation of necessary procedures and processes are required for the effective management of this program, to provide efficiency and continuity. Accomplishing this objective requires external resources to supplement staff.

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2011-2015 Planned Expenditures:	\$ 50,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 50,000
Project Balance	\$ -	Additional Funding Required	\$ 50,000

Description of Work	Estimated Annual Expenditures					Total
	2011	2012	2013	2014	2015	
Professional Services	\$50,000					\$ 50,000
						\$ -
						\$ -
						\$ -
TOTAL	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	Percentage	2011 Funding Amount
Water Reserves	100%	\$50,000
		\$0
		\$0
Total	100%	\$50,000

Funding Comments: