

COMMUNITY INVESTMENT PLAN FOR FISCAL YEARS 2011 TO 2016

Preliminary Recommended

	Fiscal Year						Prior Allocation	Balance to Complete	Total Project Cost
	2011	2012	2013	2014	2015	2016			
UTILITIES ENTERPRISE:									
Carroll Highlands Pumping Station Renovation	\$110,000	\$0	\$0	\$0	\$0	\$0	\$291,280	\$0	\$401,280
Freedom District - Hydrant Replacements	105,800	111,100	116,700	122,500	128,600	135,000	0	0	719,700
Freedom District - Hydraulic Looping along Brangles Road	0	0	0	563,800	0	0	0	0	563,800
Freedom District - Relief Sewer No. 2	0	0	0	0	0	745,500	0	0	745,500
Freedom District - Relief Sewer No.4 (Snowden's Creek)	0	0	0	0	255,530	0	0	0	255,530
Freedom District - Relief Sewer No. 6	846,300	0	0	0	0	0	110,700	0	957,000
Freedom District - Relief Sewer No.10 (Sykesville Interceptor)	0	47,300	0	307,450	0	0	0	0	354,750
Freedom District - Water Main Loops	0	0	0	0	0	722,350	0	0	722,350
Freedom Wastewater Treatment Plant Enhanced Nutrient Removal	0	0	5,300,000	5,450,000	0	0	750,000	0	11,500,000
Freedom and Hampstead Water Meter Replacements	165,400	173,600	182,300	191,400	201,000	211,000	0	0	1,124,700
Gravity Sewer Main - Houcksville Rd to Treatment Plant	0	0	0	105,500	0	774,100	0	0	879,600
Hampstead Facility Paving	0	0	0	0	0	84,000	0	0	84,000
Hampstead Grit Removal System	0	0	0	65,600	0	360,800	0	0	426,400
Hodges Road Maint. Facility Improvements	0	0	0	0	66,200	696,250	0	0	762,450
Liberty Road 8" Water Main - North Side	0	0	0	0	0	539,500	0	0	539,500
Meter Vault Replacements	44,100	46,300	48,600	51,000	53,500	56,200	0	0	299,700
North Carroll Farms Pump Station Rehabilitation	0	0	0	410,000	0	0	0	0	410,000
North Pump Station Wet Well & Pump Rehabilitation	0	0	137,000	1,001,000	0	0	0	0	1,138,000
North Station - Replace Force & Gravity Sewer Mains	698,000	0	0	0	0	0	284,925	0	982,925
Sanitary Sewer Main Lining	248,000	260,000	274,000	287,000	301,000	317,000	0	0	1,687,000
Sanitary Sewer Manhole Rehabilitation	165,400	173,600	182,300	191,400	201,000	211,100	0	0	1,124,800
Sanitary Sewer Studies	0	90,000	0	0	0	0	275,000	0	365,000
Shiloh Pumping Station Entrance	0	0	25,000	95,000	0	0	0	0	120,000
Tank Painting, Repair & Rehabilitation	47,000	47,000	47,000	47,000	47,000	47,000	0	0	282,000
Vehicle Mounted Computerized Meter Reading System	0	0	0	0	0	67,000	0	0	67,000
Water Main Blow-off Replacements	0	0	0	125,000	131,000	138,000	0	0	394,000
Water Meter Conversion	0	0	0	0	0	67,500	0	0	67,500
Water Service Line Replacement	0	0	0	0	0	170,000	0	0	170,000
West Hampstead Collector Sewer Main Upgrade/ Repair	0	0	0	106,000	0	583,000	0	0	689,000
UTILITIES ENTERPRISE TOTAL	\$2,430,000	\$948,900	\$6,312,900	\$9,119,650	\$1,384,830	\$5,925,300	\$1,711,905	\$0	\$27,833,485

SOURCES OF FUNDING:

Bonds	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000	\$0	\$150,000
Enterprise Fund - Utilities	862,116	880,129	3,062,900	4,998,400	1,129,300	5,179,800	818,950	0	16,931,595
Maintenance Fee	223,716	31,566	1,750,000	1,815,617	54,535	159,108	212,990	0	4,247,532
Area Connection Charges	1,344,168	37,205	1,500,000	1,774,933	200,995	586,392	529,965	0	5,973,658
Developer Funded	0	0	0	530,700	0	0	0	0	530,700
UTILITIES ENTERPRISE TOTAL	\$2,430,000	\$948,900	\$6,312,900	\$9,119,650	\$1,384,830	\$5,925,300	\$1,711,905	\$0	\$27,833,485

Carroll Highlands Pumping Station Renovation

Freedom Sewer

6407

Robin Hooper, Budget Analyst (410) 386-2082

This project provides funding for the renovation and modernization of the Carroll Highlands Pumping Station which was built in 1979. Some of the renovations would consist of upgrading the grinder, existing pumps and motors, piping and valves, electrical systems and controls, replacing the generator, the HVAC, ladders and landings in the wet well, site fencing, and gates.

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	100,000						271,280		371,280
Equipment/Furnishings									0
Other	10,000						20,000		30,000

EXPENDITURES

TOTAL	110,000	0	0	0	0	0	291,280	0	401,280
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SOURCES OF FUNDS

Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee	47,668						102,290		149,958
Area Connection Charges	62,332						188,990		251,322
Developer Funded									0

PROJECTED OPERATING IMPACTS

0	0	0	0	0	0	0
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Freedom District - Hydraulic Looping along Brangles Road

Freedom Water

6417

Robin Hooper, Budget Analyst (410) 386-2082

This project provides planned funding to connect the water main in the Freedom area from Brangles Road near Melstone Valley to Ridge Road to provide adequate looping in the Freedom water system. Looping mains connects dead ends in two water lines. By connecting these lines water flows more evenly throughout the system and maintains a constant water pressure.

Projected operating impacts include: maintenance costs.

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design				70,400					70,400
Land Acquisition									0
Site Work									0
Construction				448,400					448,400
Equipment/Furnishings									0
Other				45,000					45,000

EXPENDITURES

TOTAL	0	0	0	563,800	0	0	0	0	563,800
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SOURCES OF FUNDS

Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee									0
Area Connection Charges				33,100					33,100
Developer Funded				530,700					530,700

PROJECTED OPERATING IMPACTS	0	0	0	0	4,150	4,350			
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Freedom District - Relief Sewer No. 2

Freedom Sewer

6374

Robin Hooper, Budget Analyst (410) 386-2082

This project provides planned funding to replace the existing eight inch sewer main with a sixteen inch main for 4,200 feet from MH247-1 behind Harvest Farms Road south through right-of-ways crossing Harvest Farms Rd., Carroll Highlands Road, and Sunset Drive to the Carroll Highlands Pump Station. The existing sewer main is currently flowing at three quarter to full capacity in the eight inch pipe. Enlarging the main would provide relief to the sewer system, allow for increased flows resulting from future development and/or major storm events, and eliminate inflow & infiltration.

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design						114,700			114,700
Land Acquisition									0
Site Work									0
Construction						573,300			573,300
Equipment/Furnishings									0
Other						57,500			57,500
EXPENDITURES									
TOTAL	0	0	0	0	0	745,500	0	0	745,500
SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee						159,108			159,108
Area Connection Charges						586,392			586,392
Developer Funded									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			

Freedom District - Water Main Loops

Freedom Water

Proj #

Robin Hooper, Budget Analyst (410) 386-2082

This project provides planned funding to connect various water mains in the Freedom area to provide adequate looping in the Freedom water system. Looping mains connect dead ends of two separate water lines. By connecting these lines water flows more evenly throughout the system and maintains a constant water pressure.

Below is a priority list of locations planned for FY 16.

- Sunset Drive to Lake Circle Drive - 475'
- Slacks Road (at MacBeth Way) to Quad Lane - 1150'
- Oklahoma Avenue from Schoolhouse Rd. to Main Street (Sykesville) - 1300'

Projected operating impacts include: maintenance fees.

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design						111,000			111,000
Land Acquisition									0
Site Work									0
Construction						555,750			555,750
Equipment/Furnishings									0
Other						55,600			55,600
EXPENDITURES									
TOTAL	0	0	0	0	0	722,350	0	0	722,350
SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities						722,350			722,350
Maintenance Fee									0
Area Connection Charges									0
Developer Funded									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0

Freedom Wastewater Treatment Plant Enhanced Nutrient Removal

Freedom Sewer

6419

Robin Hooper, Budget Analyst (410) 386-2082

The Freedom District WWTP was originally built in 1975 and was upgraded to achieve Biological Nutrient Removal (BNR) in 1992. The MDE (Maryland Department of the Environment) has identified this facility as one of the 66 major wastewater treatment plants targeted to meet the Enhanced Nutrient Removal (ENR) effluent limits. MES is currently designing upgrades to the plant that will address the MDE requirements for enhanced nutrient removal. Maryland Environmental Services (MES) operates, maintains and currently holds the National Pollution Discharge Elimination System Permit (NPDES) issued by the MDE. This permit requires that in addition to providing secondary treatment, every effort be made to optimize the current nutrient removal performance and extend it to a year-round operation.

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction			5,300,000	5,450,000			750,000		11,500,000
Equipment/Furnishings									0
Other									0
EXPENDITURES									
TOTAL	0	0	5,300,000	5,450,000	0	0	750,000	0	11,500,000
SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities			2,050,000	2,200,000			750,000		5,000,000
Maintenance Fee			1,750,000	1,750,000					3,500,000
Area Connection Charges			1,500,000	1,500,000					3,000,000
Developer Funded									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0

Gravity Sewer Main - Houcksville Rd to Treatment Plant

Hampstead Sewer

Proj #

Robin Hooper, Budget Analyst (410) 386-2082

This project provides planned funding to replace the existing ten-inch gravity sewer main that receives flows from an existing ten-inch force main near Houcksville Road and many house connections through the Roberts Fields subdivision. The gravity main carries flows to the Hampstead treatment plant. At least 50 percent of the main will need to be replaced with a larger sewer main or parallel sewer main. An alternative route along MD 88 and through off-site property will also be evaluated. This project will be coordinated with the Hampstead Grit Removal system.

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design				70,500					70,500
Land Acquisition				35,000					35,000
Site Work									0
Construction						703,600			703,600
Equipment/Furnishings									0
Other						70,500			70,500
EXPENDITURES									
TOTAL	0	0	0	105,500	0	774,100	0	0	879,600
SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities				105,500		774,100			879,600
Maintenance Fee									0
Area Connection Charges									0
Developer Funded									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0

Hodges Road Maint. Facility Improvements

Freedom Water/Sewer

Proj #

Robin Hooper, Budget Analyst (410) 386-2082

This project provides planned funding for various maintenance and improvements to the Hodges Road Maintenance Facility. The maintenance facility was built in the early 1980's and serves as the base of operations for Bureau of Utilities personnel who maintain the Freedom Area facilities. A 40' x 40' building was added approximately five years ago for parts storage and to house the Jetter truck.

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design					66,200				66,200
Land Acquisition									0
Site Work						42,883			42,883
Construction						618,681			618,681
Equipment/Furnishings						1,608			1,608
Other						33,078			33,078
EXPENDITURES									
TOTAL	0	0	0	0	66,200	696,250	0	0	762,450
SOURCES OF FUNDS									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities					66,200	696,250			762,450
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			

Meter Vault Replacements

Freedom Water

6414

Robin Hooper, Budget Analyst (410) 386-2082

This project provides funding for the replacement of approximately 1,000 water meter vaults in the Freedom area that were installed in the late 1970s. The new vaults are made of PVC and will replace the old vaults made of bituminous coated cardboard, which are deteriorating.

Replacement areas:

Piney Ridge Village Sections 1 and 2 - 82 vaults
 Hilltop Estates - 16 vaults
 Carrolltowne Estates - 185 vaults
 Carroll Dale - 26 vaults
 Hodges Road - 37 vaults

Oklahoma Estates - 146 vaults
 Clipper Hill Estates - 135 vaults
 Westchester Estates - 46 vaults
 Lexington Run Estates - 114 vaults
 Norris Avenue - 92 vaults

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	44,100	46,300	48,600	51,000	53,500	56,200			299,700
Equipment/Furnishings									0
Other									0

EXPENDITURES

TOTAL	44,100	46,300	48,600	51,000	53,500	56,200	0	0	299,700
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SOURCES OF FUNDS

Bonds									0
Enterprise Fund - Utilities	44,100	46,300	48,600	51,000	53,500	56,200			299,700
Maintenance Fee									0
Area Connection Charges									0
Developer Funded									0

PROJECTED OPERATING IMPACTS

	0	0	0	0	0	0
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North Carroll Farms Pump Station Rehabilitation

Hampstead Sewer

Proj #

Robin Hooper, Budget Analyst (410) 386-2082

This project provides planned funding to renovate the North Carroll Farms Pumping Station with new pumps, upgrade outdated controls, and increase the wet well size to decrease the times the pumps start and stop between running. Low flow conditions causes production of hydrogen sulfide gas at the base of the pump and deteriorates the pump castings. Plans are for two new pumps and controls, replacing the current generator and upgrading the electrical system. The diesel fuel containment system will be addressed as well. Currently there is no system in place.

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
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Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings				410,000					410,000
Other									0

EXPENDITURES

TOTAL	0	0	0	410,000	0	0	0	0	410,000
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SOURCES OF FUNDS

Bonds									0
Enterprise Fund - Utilities				410,000					410,000
Maintenance Fee									0
Area Connection Charges									0
Developer Funded									0

PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0
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North Station - Replace Force & Gravity Sewer Mains

Hampstead Sewer

6398

Robin Hooper, Budget Analyst (410) 386-2082

This project provides funding to replace the existing six-inch force main installed in 1969 with a new eight-inch force main. This will help meet existing demand and allow for future development near the North Station facility located near the intersection of Maryland Routes 30 and 482. A new gravity main will also be constructed to meet the existing main near Panther Drive.

Operating Impacts: Maintenance

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	49,000						111,000		160,000
Land Acquisition							26,900		26,900
Site Work									0
Construction	545,100						147,025		692,125
Equipment/Furnishings									0
Other	103,900								103,900
EXPENDITURES									
TOTAL	698,000	0	0	0	0	0	284,925	0	982,925
SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities	168,916						68,950		237,866
Maintenance Fee									0
Area Connection Charges	529,084						215,975		745,059
Developer Funded									0
PROJECTED OPERATING IMPACTS	0	1,650	1,730	1,820	1,910	2,010			

Sanitary Sewer Manhole Rehabilitation

Freedom/Hampstead Sewer

6403

Robin Hooper, Budget Analyst (410) 386-2082

This project provides funding to rehabilitate the Freedom Area's 3,000 sanitary sewer manholes and Hampstead's 1,000 sanitary sewer manholes. A comprehensive sewer evaluation is underway to assess the condition of the existing manholes and to determine the most cost effective repairs. The funding for this project will address 25 to 40 manholes annually. Repair strategies include foam injection rehabilitation and structure rehabilitation by spray on lining. Currently 68 manholes and 8 lamp lines have been replaced or repaired. Of those, 49 were in the Freedom District and 19 were in Hampstead.

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	165,400	173,600	182,300	191,400	201,000	211,100			1,124,800
Equipment/Furnishings									0
Other									0
EXPENDITURES									
TOTAL	165,400	173,600	182,300	191,400	201,000	211,100	0	0	1,124,800
SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities	165,400	173,600	182,300	191,400	201,000	211,100			1,124,800
Maintenance Fee									0
Area Connection Charges									0
Developer Funded									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0

Sanitary Sewer Studies

Freedom/Hampstead Sewer

6385

Robin Hooper, Budget Analyst (410) 386-2082

This project provides planned funding for a study of the Freedom and Hampstead sewer collection systems. The study includes suggestions for improvements in technology as well as inspecting and assessing the condition of the sewer mains and laterals. Video camera inspection is utilized to inspect as much of the system as can be accessed. These inspections will help determine sections of sanitary lines with deficiencies. Spot inspections will take place in areas where video camera inspection is not feasible. Flow monitoring during the wet time of the year will provide information on any infiltration and inflow problems that may exist. This information can be used in modeling the system and pumping stations, as well as helping to determine needs for modifications to system capacity or efficiency.

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design		90,000					275,000		365,000
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings									0
Other									0
EXPENDITURES									
TOTAL	0	90,000	0	0	0	0	275,000	0	365,000
SOURCES OF FUNDS									
Bonds							150,000		150,000
Enterprise Fund - Utilities		90,000							90,000
Maintenance Fee									0
Area Connection Charges							125,000		125,000
Developer Funded									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0

Shiloh Pumping Station Entrance

Hampstead Sewer

Proj #

Robin Hooper, Budget Analyst (410) 386-2082

This project provides funding for the design and construction of a new entrance road approximately 330 feet in length into the Shiloh Pumping Station. This will provide improved sight distance and greater safety for vehicles entering and leaving the station entrance.

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design			20,000						20,000
Land Acquisition			5,000						5,000
Site Work									0
Construction				80,000					80,000
Equipment/Furnishings									0
Other				15,000					15,000

EXPENDITURES

TOTAL	0	0	25,000	95,000	0	0	0	0	120,000
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SOURCES OF FUNDS

Bonds									0
Enterprise Fund - Utilities			25,000	95,000					120,000
Maintenance Fee									0
Area Connection Charges									0
Developer Funded									0

PROJECTED OPERATING IMPACTS	0	0	0	0	0	0
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Tank Painting, Repair & Rehabilitation

Freedom Water

6332

Robin Hooper, Budget Analyst (410) 386-2082

This project provides on-going funding to provide protective coatings to water storage tanks in the Freedom district. The Bartholow tank and Bark Hill tank have been painted in the past few years. Providing protective coatings provides clean, safe drinking water and extends the life of water tanks. The following water tanks are planned for painting as funds become available:

Tank Site	Date Built
Martz Road	1989
Pleasant Valley	1991
Linton Springs	1998
Liberty	1999

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	10,000	10,000	10,000	10,000	10,000	10,000			60,000
Land Acquisition									0
Site Work	34,000	34,000	34,000	34,000	34,000	34,000			204,000
Construction									0
Equipment/Furnishings									0
Other	3,000	3,000	3,000	3,000	3,000	3,000			18,000
EXPENDITURES									
TOTAL	47,000	47,000	47,000	47,000	47,000	47,000	0	0	282,000

SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities	47,000	47,000	47,000	47,000	47,000	47,000			282,000
Maintenance Fee									0
Area Connection Charges									0
Developer Funded									0

PROJECTED OPERATING IMPACTS						
	0	0	0	0	0	0

Water Meter Conversion

Freedom Water

Robin Hooper, Budget Analyst (410) 386-2082

Proj #

This project provides funding for the conversion of approximately 2,500 "curb stop type" water house connections to "meter vault type" connections in the Freedom area of the County. The conversion to meter vaults would move the meter from inside of the houses to a vault located in the County right of way. The conversion will allow for easier maintenance by county personnel and greatly reduce after hour appointments with the home owners. The annual allocation for this project funds the conversion of approximately 50 house connections each year.

Below is a priority list of subdivisions planned for FY 16 and beyond.

Hawk Ridge - 325	Brimfield - 150	Harvest Farms - 300
Shannon Run - 250	Flanders - 50	Squires - 20
Eldersburg Estates - 225	Hammond Estates - 150	Melstone Valley - 30
Benjamins Claim - 150	Piney Ridge - 100	
Heritage Heights - 80	Parrish Park - 225	
Carrolltowne 3A & B - 150	Springmount Estates - 10	
Collin Estates - 10	Stafford Estates - 10	

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction						67,500			67,500
Equipment/Furnishings									0
Other									0
EXPENDITURES									
TOTAL	0	0	0	0	0	67,500	0	0	67,500

SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities						67,500			67,500
Maintenance Fee									0
Area Connection Charges									0

PROJECTED OPERATING IMPACTS									
	0	0	0	0	0	0			0

