Appendix 2

Submission to the

2004 SUPPLEMENTARY CAPITAL BUDGET



City of Vancouver May 2004

DEPARTMENT: Corporate Services – Fac				
CATEGORY (Choose one of the following ca	itegories):			
acility: X Information Techn	ology: 🗆		Other:	
ROJECT DESCRIPTION: Upgrade Huma	an Resources T	raining Centre in	n City Hall	•
ROJECT SUMMARY: (Consider History,	Objectives, Tir	ming, Costs, & F	unctional breakdow	m)
ISTORY:				,
R Training Centre 1999 the Training Centre for Human Res	ources had to 1	morre from a 2.1	on SE office on the	
anCity building to accommodate the SAP	Consultant Te	am. Renovation	s were auickly und	ertaken in a 4 612
pace formerly occupied by Information Te	chnology on th	ie subground lev	el of City Hall to h	ouse the HR Train
entre and classrooms for SAP Training. The	his was an inte	rim measure unt	til the Training Cen	tre could move to
ermanent facility in 450 West Broadway. I	n addition, this	s subground spa	ce was being reserv	red to service
ouncil's desire for a large committee room terim solution is not working well. HR's s	1 In City mail. I taff and Organ	In the past rive y	ears, priorities hav	e changed and the
aff have developed a joint program and pla	an to upgrade t	he existing spac	e. (contd on page 2)) ани элт и аш
	- ~	- -		,
BJECTIVES:	N 4 4a	4 4		
collocate the eight members of the S&Ol vironment suitable for classrooms and train	D team; to upg	rade the space to	o an efficient functi	onal layout and
			-	<i>-</i>
DGET (include functional breakdown):				
DGET (include functional breakdown): Renovation (hard and soft costs): Furniture and Equipment:	\$560,000 \$162,000			
Renovation (hard and soft costs):				
Renovation (hard and soft costs): Furniture and Equipment: TOTAL: MING:	\$162,000 \$722,000			
Renovation (hard and soft costs): Furniture and Equipment: TOTAL:	\$162,000 \$722,000	ompletion:		
Renovation (hard and soft costs): Furniture and Equipment: TOTAL: MING: Start:	\$162,000 \$722,000 Co			
Renovation (hard and soft costs): Furniture and Equipment: TOTAL: MING: Start:	\$162,000 \$722,000 Co		to schedule and use t	he facility.
Renovation (hard and soft costs): Furniture and Equipment: TOTAL: MING: Start: OST SAVING AND OTHER BENEFITS: proved team coordination; improved learning e	\$162,000 \$722,000 Co		to schedule and use t	he facility.
Renovation (hard and soft costs): Furniture and Equipment: TOTAL: MING: Start: OST SAVING AND OTHER BENEFITS: proved team coordination; improved learning e	\$162,000 \$722,000 Co	increased ability		he facility.
Renovation (hard and soft costs): Furniture and Equipment: TOTAL: MING: Start: OST SAVING AND OTHER BENEFITS: proved team coordination; improved learning expressions are considered by the constant of the	\$162,000 \$722,000 Convironment and	increased ability	2006	he facility.
Furniture and Equipment: TOTAL: MING:	\$162,000 \$722,000 Convironment and	increased ability	2006	he facility.
Renovation (hard and soft costs): Furniture and Equipment: TOTAL: MING: Start: OST SAVING AND OTHER BENEFITS: proved team coordination; improved learning of the provent	\$162,000 \$722,000 Convironment and 2004 \$	increased ability	2006	he facility.
Renovation (hard and soft costs): Furniture and Equipment: TOTAL: MING: Start: OST SAVING AND OTHER BENEFITS: proved team coordination; improved learning of the proventies	\$162,000 \$722,000 Convironment and 2004 \$	increased ability	2006	he facility.
Renovation (hard and soft costs): Furniture and Equipment: TOTAL: MING: Start: OST SAVING AND OTHER BENEFITS: Droved team coordination; improved learning of the provent	\$162,000 \$722,000 Convironment and 2004 \$	increased ability	2006	he facility.
Renovation (hard and soft costs): Furniture and Equipment: TOTAL: MING: Start: OST SAVING AND OTHER BENEFITS: proved team coordination; improved learning of the provent	\$162,000 \$722,000 Convironment and 2004 \$	increased ability	2006	he facility.
Renovation (hard and soft costs): Furniture and Equipment: TOTAL: MING: Start: OST SAVING AND OTHER BENEFITS: Droved team coordination; improved learning of the provent	\$162,000 \$722,000 Convironment and 2004 \$ \$722,000	increased ability	2006	he facility.

2004 SUPPLEMENTARY CAPITAL BUDGET (continued) PROJE

PROJECT NO.: 1

DEPARTMENT:

Corporate Services - Facility Design & Management - Facility Development

PROJECT DESCRIPTION: Upgrade Human Resources Training Centre in City Hall

PROJECT SUMMARY (continued)

HISTORY: (contd)

This renovation would collocate eight S&OD staff and two SAP staff. Facilities would continue to include: two S&OD training rooms including a large room for 30 people and a small room for 18, two SAP computer classrooms for 12 students each, large meeting room (10 staff), small meeting room (6 staff), breakout rooms, storage and preparation rooms, reception and offices in an efficient layout.

Considerable upgrading is required to provide adequate acoustic separations and individual controls for heating, cooling, ventilation and lighting in classrooms and training areas. The estimated cost of the renovation including soft costs is \$560,000. In addition, replacement of desks, chairs, tables with ergonomic furniture and equipment has been estimated at a cost of \$162,000.

Total cost of the project is estimated at \$722,000

2004 SUPPLEMENTARY CAPI	TAL BUD(SET		
DEPARTMENT: City Clerk's - Micr	cofilm (Division	n moves from Eng	gineering to Clerk's I	Dec 1/03)
CATEGORY (Choose one of the following ca	ategories):			
Facility: X Information Techn	ology: 🗆	ſ	Other:	
PROJECT DESCRIPTION:				
MICROFILM OFFICE ALTERATIONS				
PROJECT SUMMARY: (Consider History, HISTORY:	, Objectives, Ti	ming, Costs, & Fi	ınctional breakdown)
Health, safety and ergonomic problems have Hygene Coordinator for Engineering (see att	been identified ached reports)	l in the Microfilm	area by Andrew Ros	ss, Occupational
OBJECTIVES:				
Bring area into WCB OH&S compliance from	an air aualit		ata arganamically co	
and storage (staff currently have computers of	on table tops ar	y perspective, c.c. ad very poor stors	ate ergonomicany cor one of boxes requiring	rrect workstations a heavy lifting)
		ter very <u>r</u>	Se or nomes	; Heavy manne,
BUDGET (include functional breakdown):				
,				
Direct Labour: Materials :				
Materials : Equipment :				
Other:				
Total:\$60,300 (see	attached)			
TIMING:				
Start: ASAP (not yet known)		Completion	n:	
COST SAVING AND OTHER BENEFITS:				
IMPACT ON OPERATING BUDGET:	2004	2005	2006	
	\$	\$	\$	
PROJECT COST:				· ·
Total Cost:	\$60,30	00		
Funding From Other Sources:				
Senior Government:				
Property Owners:				
Other(please specify):				
2004 Supplementary Capital Budget Requested	_ d:		\$\$6	60,300_
-	- 			-0,500 <u> </u>
FOR INTERNAL USE ONLY			PROJECT NO.	2
Order Group:	Order Numb	lber:		
	1	Tabilitation - commercial and approximate and	PROPERTY OF THE PROPERTY OF TH	All Control of the All Control o

2004 SUPPLEMENTARY CAPITA	AL BUD	BET		
DEPARTMENT: Engineering Services				
CATEGORY (Choose one of the following cate	gories):			
Facility: X Information Technology	ogy: 🗆	•	Other: \square	
PROJECT DESCRIPTION: Renovation to make space for new staff positions, technology support area.	, set up a Dep	partmental Printing	Area, and provide	secure access to
PROJECT SUMMARY: (Consider History, O HISTORY:	bjectives, Ti	ming, Costs, & Fu	ınctional breakdo	wn)
The Information Services Branch of the Engineeri Department's business process. Two new staff me can be made available by moving the current print increase in use over the past year based on the new is needed to handle the additional volume and to d The Information Services Branch also provides ne of hardware devices stored and prepared in this are	embers are be ting area to the w technology in deal with the notes etwork suppor	eing hired to help sume map vault. The control products being made noise and general direct services for the D	support the growth in current Printing area de available and a r lisruption of adjacer Department. Consec	in this area. Desk space a is seeing a two fold reconfiguration of the area of
secure these resources	A UII wie Caro	IIIg oddio. 11 mg.	31 16 vol 01 Booming	is needed to properly
OBJECTIVES: To make space for new full time permanent staff To respond to growing demands for printing To provide secure areas for computer hardware sto	orage	·		
BUDGET (include functional breakdown):				
Direct Labour: _30,000 Materials: _20,000 Equipment: _10,000 Other: _5,000 Total: _65,000				
TIMING: Start: March 2004		Completio	on: April 2004	
COST SAVING AND OTHER BENEFITS: Provide office space for new staff. Provide suffice event)	cient space fo	or printing. Avoid	d loss of equipmen	t (up to \$50,00 per
IMPACT ON OPERATING BUDGET:	2004 \$0	2005 \$0	2006 \$0	
PROJECT COST: Total Cost:	65,000_			
Funding From Other Sources: Senior Government: Property Owners:				
Other(please specify): 2004 Supplementary Capital Budget Requested:			\$	
FOR INTERNAL USE ONLY. Order Group:	Order Num	lber;	PROJECTA	₹ 0 .:.3

2004 SUPPLEMENTARY CAPIT	'AL BUDG	ET		
DEPARTMENT: Corporate Services Facilitie	es Design & M	anagement/Build	ling Services	
CATEGORY(Choose one of the following cat	tegories):			
Facility: X Information Techno			Other:	
PROJECT DESCRIPTION: Repair Seating in				
PROJECT DESCRIPTION: Repail Scaling in	Museums/roc	C Lower Augitoria	ım	
PROJECT SUMMARY: (Consider History, Consider History, Consider History)	Objectives, Tir	ming, Costs, & F	unctional breakdown	
HISTORY: The seating in the Museums/PSC complex lower very uncomfortable to sit in for long periods of ti deterring return bookings resulting in loss of reverse.	r auditorium are ime. There are n	e worn to the point	t where the foam has co	ollansed making then
OBJECTIVES:				
To rebuild the seating making the Auditorium con	mfortable and r	marketable.		
	,		•	
The County (1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				
BUDGET (include functional breakdown):				
Direct Labour: Materials:	r			
Equipment : Other :				
Total:				
TIMING: Start: Upon receipt of funding		· C	Completion: 2004	
COST SAVING AND OTHER BENEFITS:				
IMPACT ON OPERATING BUDGET:	2004	2005	2006	
	\$	\$	\$	
PROJECT COST: Total Cost:				
Funding From Other Sources:				
Senior Government:				
Property Owners: Other(please specify):	·		•	
2004 Supplementary Capital Budget Requested:	:		\$_51,00)0
FOR INTERNAL USE ONLY Order Group:	Order Numb	per:	PROJECT NO.	. 4
	21			

The state of the s	porate Services Facilitie	es Design & M	anagement/Build	ing Services	
					·
	one of the following cat	egories):			
Facility: X	Information Techno	logy: \square	(Other:	
PROJECT DESCRIP	TION: Exterior Restorat	tion Museum/Pl	anetarium	· · · · · · · · · · · · · · · · · · ·	
PROJECT SUMMAR	Y: (Consider History,	Objectives, Tin	ning, Costs, & Fr	ınctional break	down)
HISTORY: The exterior surfaces of restoration cleaning and penetration to inside sur The surfaces of the facil	f the Vancouver Centenni I sealing must be done. Fa	ial Museum, HR ailed caulking or e point of becom	McMillan Planets on the concrete join ning and eyesore,	arium have deter nts at roof level is	riorated to the point where s allowing moisture
OBJECTIVES: A thorough cleaning and cost effective cleaning in		surfaces would 1	provide protection	preventing furth	er damage and allow for
Direct Labour	·				
Materials : Equipment :					
Other:					
Total:					
#	·	-			
TIMING:					
** ** ** ** ** ** ** ** ** ** ** ** **	receipt of funding		Co	ompletion: 2004	•
Start: Upon 1	•				
Start: Upon 1	THER BENEFITS:				·
		2004	2005	2006	·
COST SAVING AND C		2004	2005	2006 \$	
COST SAVING AND COMPACT ON OPERATOR PROJECT COST:					
COST SAVING AND C					
COST SAVING AND COMPACT ON OPERATOR PROJECT COST: Total Cost: Funding From Senior	TING BUDGET: n Other Sources: Government:				
PROJECT COST: Total Cost: Funding From Senior Proper	TING BUDGET: n Other Sources:				
PROJECT COST: Total Cost: Funding From Senior Proper Other(j	TING BUDGET: n Other Sources: Government: rty Owners:	\$		\$	_120,000
MPACT ON OPERAT ROJECT COST: Total Cost: Funding From Senior Proper Other(j	TING BUDGET: n Other Sources: Government: rty Owners: please specify): upital Budget Requested	\$	\$	\$	

2004 SUPPLEMEN DEPARTMENT:			ÆT		
	Engineering – Yar				
CATEGORY (Choose one					
Facility: $\Box \mathbf{X}$	Information Techn	ıology: 🗌		Other:	
PROJECT DESCRIPTION Replace Manitoba Works Y	Yard Emergency Pov				
PROJECT SUMMARY: HISTORY:	(Consider History	, Objectives, Tin	ning, Costs, & Fu	inctional breakdov	vn)
The Emergency Generator daily, it is part of our City available and should it fail	y of Vancouver Em	iergency Equipm	nent. It is of an ag	ige where repair pa	hough it is not used arts are no longer
OBJECTIVES:					
To replace unit and assure	e available, reliable	e emergency pov	ver for another 20	0 to 30 years	
BUDGET (include function	nal breakdown):				·
Direct Labour: Materials :	\$_10,000 \$108,000	,			
Equipment : _	\$100,000 <u></u>				
Other: Total:	\$118,000				
				·	
ΓΙΜΙΝG : Start : 2004		C	Completion: 2004	4	
COST SAVING AND OTH	IER BENEFITS:				<u> </u>
MPACT ON OPERATING	G BUDGET:	2004	2005	2006	
		\$	\$	\$	
PROJECT COST: Total Cost:		\$118,000	0		
Funding From O	ther Sources:	_			
Senior Gov Property C	vernment:		·		
	owners: ase specify):				
004 Supplementary Capita	al Budget Requeste	e d:		\$	
OR INTERNATUSE ON	T.V			PROJECT N	
Order Group:		Order Numb	ber:		

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2004 SUPPLEMENTARY CA DEPARTMENT: Corporate Services/Fa			ding Services	
_				
CATEGORY (Choose one of the following	ng categories):			
Facility: $f X$ Information Te	chnology:	•	Other:	
PROJECT DESCRIPTION: Power Vacu	um Ventilation Duct	work		
PROJECT SUMMARY: (Consider History)	ory, Objectives, Tin	ning, Costs, & F	unctional breakdown)	1
Power vacuum ventilation ductwork from the system. The supply and return air grilles compartment, condensate drain pans, turning This facility has supply and exhaust air systems 2120 Cambie has now been occupied 24 horses.	s, return air ducts, inte ng vanes filter housing tems as well as 162 he	terior surfaces of t gs reheat coils, tra leat pumps each w	the air handling unit, mi ansfer fans and dedicate vith their own associated	ixing box, coil
OBJECTIVES: As required by WCB Indoor Air Quality Re of the HVAC ductwork is due. To remove contaminants from ductwork this			-	-
				•
BUDGET (include functional breakdown)):			
Direct Labour: Materials: Equipment: Other: Total:				
TIMING: Start: Upon receipt of funding	 ;	Completio	n: 2004	
COST SAVING AND OTHER BENEFITS	S:			
IMPACT ON OPERATING BUDGET:	2004	2005	2006	
	\$	\$	\$	
PROJECT COST: Total Cost:				
Funding From Other Sources: Senior Government: Property Owners: Other(please specify):				
2004 Supplementary Capital Budget Reque	ested:		\$_54,00	10
FOR INTERNAL USE ONLY Order Group:	Order Numb	ici.	PROJECT NO.	

2004 SUPPLEMENTARY CAPITA	AL BUD(GE T		•
DEPARTMENT: Corporate Services Facilities	Design & N	//anagement/Build	ding Services	
一般の表現を表現を表現を表現を表現を表現を表現を表現を表現を表現を表現を表現を表現を表		181186411111111111111111111111111111111	mg but vices	
CATEGORY(Choose one of the following cates	onries);			
			_	
Facility: X Information Technology			Other:	
PROJECT DESCRIPTION: Four Corners Ban	nk Basemen	t Ventilation		
PROJECT SUMMARY: (Consider History, OHISTORY: As part of the basement is currently being used as from the alley at a very low elevation of approx. the and excrement It is recommended this current system.	s office space hree feet eleva	the the fresh air be	eing supplied to the a	area is being supplied
OBJECTIVES: To provide HVAC to lower basement area ,to meet	t WCB air q	quality standards		
BUDGET (include functional breakdown):				
Direct Labour:				
Materials :				
Equipment :				
Other : Total :				
TIMING:				
Start: Upon receipt of funding		C	Completion: 2004	
COST SAVING AND OTHER BENEFITS:				
IMPACT ON OPERATING BUDGET:	2004	2005	2006	•
•	\$	\$	\$	
PROJECT COST:				
Total Cost:	· · · · · · · · · · · · · · · · · · ·	4.44		
Funding From Other Sources: Senior Government: Property Owners: Other(please specify):				
2004 Supplementary Capital Budget Requested:		·	\$_52	2,000
FOR INTERNAL USE ONLY Order Group:	Order Num	iber:	PROJECTN	08

2004 SUPPLEMENTARY CAPIT DEPARTMENT: Corporate Services Facilitie			lina Sampings	
DEPARTMENT: Curpurate services racinge	s Design & 141	.anagement/Dunu	ling Services	**
CATEGORY(Choose one of the following cate	egories):			
Facility: X Information Technol	.ogy: □	•	Other:	
PROJECT DESCRIPTION: Replace City Hall	Daycare Ven	tilation System to	Adhere to Curr	ent Code
PROJECT SUMMARY: (Consider History, Chistory: The current method of ventilation at City Hall Da electric radiant panels that are in use but are not consistent in the second of the facility. Due to the design of the existing system supply any method of air conditions. OBJECTIVES: The proposed upgrade would involve the installation controlled via a Building Automation System.	aycare is underscapable of the name of the	rsized and offers ve meeting existing eand various stale air is no cross ventilate	ery little climate environmental te ir and odors are ation through use	e control, there are several emperature conditions. The prevalent e of windows nor does the
BUDGET (include functional breakdown): Direct Labour: Materials: Equipment: Other: Total:				
TIMING: Start: Upon receipt of funding		C	ompletion: 200)4
COST SAVING AND OTHER BENEFITS:	•			
IMPACT ON OPERATING BUDGET:	2004	2005	2006	
	\$	\$	\$	
PROJECT COST: Total Cost:				
Funding From Other Sources: Senior Government: Property Owners: Other(please specify):				
2004 Supplementary Capital Budget Requested:			!	\$_53,000
FOR INTERNAL USE ONLY Order Group:	Order Numl	ber:	PROJEC	T NO. #. 9

2004 SUPPLEMENT	*				
DEPARTMENT: Corporat	e Services Facilit	ties Design & M	anagement/Build	ing Services	
CATEGORY(Choose one o	of the following c	ategories):			
Facility: X	formation Techn	iology: 🗆	(Other:	
PROJECT DESCRIPTION	: Dig new pit to a	allow access and	replace shutoff va	lve and backflow	preventors
PROJECT SUMMARY: (CHISTORY:					•
To build a concrete pit and regrounds on the north side of C shutoff valve which is passing with room to get down to the vandal proof steel cover for th and cannot be serviced due to contamination of the domestic OBJECTIVES: The current is serviced due to the small size at the domestic water main under	City Hall. This inc g water, the 6" dov valves for servicin he pit. The current the small size and c water main under installation does no and unsafe conditi	cludes the cost of wnstream valve wang each year as rest installation does dunsafe condition or 10 th Avenue.	f excavating, cost of which is passing was equired by the plures not meet code recon of the pit. This puriements, the shurest contract of the pit.	of rebuilding or re vater, constructing mbing code and fa equirements, the sh project should be u	eplacing the upstream 6" an 8 foot deep concrete prabricating a tamper and hutoff valves are leaking undertaken to prevent
BUDGET (include functiona					
Direct Labour: Materials :		,			
Equipment :					
Total:		* **			
TIMING:					
Start: Upon receip	t of funding		C	ompletion: Fall 2	:004
COST SAVING AND OTHE	R BENEFITS:				
IMPACT ON OPERATING	BUDGET:	2004	2005	2006	
	_	\$	\$	\$	
PROJECT COST:		951 000		:	
Total Cost:		\$51,000_			
Funding From Oth Senior Gove Property Ow	rnment:				
Other(please			,		
2004 Supplementary Capital	Budget Requeste	:d:		\$ _	51,000
FOR INTERNAL USE ONL) Order Group:	(:	Order Numb	per:	RROJECT	NO: 10

TEGORY (Choose one of the following cate		-		
ility: X Information Technol	logy: 🗌		Other:	
OJECT DESCRIPTION: blace Obsolete Heat Pumps at Gathering Place				
OJECT SUMMARY: (Consider History, Cortony: eindustry standard designed life expectancy force is now 10 years old and unit compressors are dule for replacement should begin immediate.	or air-source he	eat pumps is 10 to	15 years. The equipmen	nt at the Gatheri attempt repairs.
JECTIVES: ensure adequate ventilation and climate contro	ol according to	WCB indoor air	nuality standards.	
	1		<u> </u>	
OGET (include functional breakdown):	,			
Direct Labour:				
Materials : Equipment :				
Other:				
Total:				
Total:		•		
IING:				
	C	ompletion:		
IING:	Co	ompletion:		
UNG: Start: Upon receipt of funding	2004		2006	
IING: Start: Upon receipt of funding ST SAVING AND OTHER BENEFITS:	2004	2005	2006	
UNG: Start: Upon receipt of funding ST SAVING AND OTHER BENEFITS: ACT ON OPERATING BUDGET:			2006 \$	
IING: Start: Upon receipt of funding ST SAVING AND OTHER BENEFITS:	2004	2005		
ING: Start: Upon receipt of funding ST SAVING AND OTHER BENEFITS: PACT ON OPERATING BUDGET: DJECT COST: Total Cost: Funding From Other Sources:	2004	2005		
ING: Start: Upon receipt of funding ST SAVING AND OTHER BENEFITS: PACT ON OPERATING BUDGET: DJECT COST: Total Cost: Funding From Other Sources: Senior Government:	2004	2005		
ING: Start: Upon receipt of funding ST SAVING AND OTHER BENEFITS: PACT ON OPERATING BUDGET: DJECT COST: Total Cost: Funding From Other Sources:	2004	2005		

2004 SUPPLEMENTARY CAPIT	AL BUDG	GET		

DEPARTMENT: Corporate Services Facilitie	s Design & M	anagement/Build	ding Services	
CATEGORY (Choose one of the following cate	gories):			
Facility: $f X$ Information Technol	ogy:		Other:	
PROJECT DESCRIPTION:				
Replace shower piping and hot water tanks		i		
PROJECT SUMMARY: (Consider History, C)bjectives, Ti	ming, Costs, & F	unctional breakdow	/n)
HISTORY: The timed showers for clients at the Gathering Plant.				•
building was commissioned. The current system h	has a solenoid i	installed in the hot	ot water line before the	e nine goes to the
shower diverter valve. This causes the shower to shower supply and the adjacent shower giving too	run cold when	n the time expires a	and allows a cross co	nnection between the
the closet in the hallway which means there is an	extra 12 to 25:	feet the hot water	must travel to get to	the shower causing an
undesireable loss of energy. We propose to open	the walls and o	ceilings to allow re	e-piping of the show	ers with the solenoid
valves being relocated in an access box within the	individuai siic	ower stalls.		
OBJECTIVES:				
To ensure reliable service as required				
BUDGET (include functional breakdown):				•
			·	
Direct Labour: Materials :				
Equipment :				
Other:				
Total:		4.4 No. 1		
TIMING : Start :	C	ompletion:		
COM CANNO AND OWNER WESTERING.		/p		
COST SAVING AND OTHER BENEFITS:				
THE CAN CANADA ATTICA BUILDING				
IMPACT ON OPERATING BUDGET:	2004	2005	2006	
	\$	\$	\$	
PROJECT COST:				
Total Cost:				
Funding From Other Sources: Senior Government:				
Property Owners:				
Other(please specify):				
2004 Supplementary Capital Budget Requested:			© 51	4 000
		•	\$51	.,000
OR INTERNAL USE ONLY			PROJECTNO	D.: 12
Order Group:	Order Numb)er:		
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2004 SUPPLEMENTARY CAPITA	AL BUDO	GET		
DEPARTMENT: Corporate Services Facilities	Design & M	Ianagement/Build	ling Services	
CATEGORY(Choose one of the following category	gories):			
Facility: X Information Technolog	,gy: □		Other:	·
PROJECT DESCRIPTION: Install Emergency	y Generator	at Maritime Mus	æum	
PROJECT SUMMARY: (Consider History, Obtion HISTORY: The Maritime Museum does not have any emergen been necessary to call in a pumper truck to lower thartifacts in extremely vulnerable circumstance.	ncy power. Ir	In power outages the	ne facility is in comp	plete darkness and it has
OBJECTIVES: To install an emergency generator capable of power circulator pumps, boiler in the event of a power out	ring required tage.	d emergency lightir	ng, sewage pumps,	sump pumps, heating
BUDGET (include functional breakdown):				
Direct Labour:				
Materials : Equipment :				
Other :				
10tai :				
TIMING:				
Start:	C	Completion:		
COST SAVING AND OTHER BENEFITS:				
IMPACT ON OPERATING BUDGET:	2004	2005	2006	
	\$	\$	\$	
PROJECT COST: Total Cost:				
Funding From Other Sources: Senior Government: Property Owners: Other(please specify):				
2004 Supplementary Capital Budget Requested:			\$ 53	3,000
FOR INTERNAL USE ONLY	17		PROJECTA	70.:13

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CATEGORY (Choose one of the following cate	_			
Facility: X Information Technol	logy:	•	Other: \square	
PROJECT DESCRIPTION: Museum Conserv	ation Lab Ven	tilation		
				·
PROJECT SUMMARY: (Consider History, C	Objectives, Tin	ning, Costs, & Fu	ınctional breakdown)	
The exhaust system in the conservation lab is not designed to standards no longer acceptable. Solve system must be upgraded.	up to current C ints and epoxie)H&S standards. ?	Γhe system is original t ∋ing used in the restora	o the facility and tion work and the
	•			
OBJECTIVES: To ensure Museums and WCB v	entilation stand	dards are met		
BUDGET (include functional breakdown):	•			
Direct Labour:		•		
Materials:				
Equipment : Other :				
Total:				
				·
FIMING: Start: Upon receipt of funding		C	ompletion: 2004	
COST SAVING AND OTHER BENEFITS:				
THE STATE OF THE S				
MPACT ON OPERATING BUDGET:	2004	2005	2006	
	\$	\$	· \$	
PROJECT COST:				
Total Cost:				
Funding From Other Sources:				
Senior Government: Property Owners:				
Other(please specify):				
004 Supplementary Capital Budget Requested:	;		\$65,0	00
				_

2004 SUPPLEMENTARY CAPITA	AL BUD(GET		
DEPARTMENT: Corporate Services Facilities	s Design & M		ling Services	
·			-	
CATEGORY(Choose one of the following cate	gories):			
Facility: X Information Technology	ogy: 🗆	•	Other: \square	
PROJECT DESCRIPTION: Replace Electrical	1 Cubetation a	+ Omheum Theatre		
AND THE PROPERTY OF THE PROPER	Substance	t Othnemi Tuores	,	•
PROJECT SUMMARY: (Consider History, O	bjectives, Ti	ming, Costs, & Fr	unctional breakdown	1)
HISTORY: In conjunction with work being done by BC Hydro				•
during a switching process in the BC Hydro cell. A	After taking th	he appropriate safe	ty steps the chain was	repaired and the
equipment placed in operating condition.				
OBJECTIVES: As this equipment is dated and un	nreliable it is:	recommended that	immediate considerat	ion be given to
replacing the electrical substation				
BUDGET (include functional breakdown):				
Direct Labour: Materials:				
Equipment : Other :				
Total:				
TIMING: Start: Upon receipt of funding		C	ompletion: Fall 2004	
COST SAVING AND OTHER BENEFITS:				
IMPACT ON OPERATING BUDGET:	2004	2005	2006	
	\$	\$	\$	
PROJECT COST:				
Total Cost:		· · · · · · · · · · · · · · · · · · ·		
Funding From Other Sources: Senior Government:				
Property Owners:				
Other(please specify):				
2004 Supplementary Capital Budget Requested:			\$12 !	5,000.00
FOR INTERNAL USE ONLY			PROJECT NO	4. 15.
Order Group:	Order Numi	iber:		
And the second of the second o	25	* Charles and Char	. 1967 - 1968 година в при в при	TOTAL PROBABILITY PROBESTORS FOR THE HIELE SHARE

CATEGORY(Choose one of the following cate	ine).			
V			-	
Facility: A Information Technology	ıgy:∟	•	Other: \square	•
PROJECT DESCRIPTION: Orpheum HVAC	Modifications			
PROJECT SUMMARY: (Consider History, O	bjectives, Tir	ning, Costs, & Fi	unctional breakdown)	
HISTORY: The installation of two transfer ducts would be req	mired to provi	ide return air from	unner halcony areas thu	s reducing the draf
at the stage level and providing improved air circu	lation.			-
The balance of the project is to install small slide of be done on the lower third of the theater and damp	lampers on the	e supply air cones	located under the seating	g. This would only
These changes are not visible and should not affect	t the Heritage	status of the facil	ity. all actuated controls	would be integrate
with the existing building automation system.			ity, an accuming the second	vouid oo miogram.
OBJECTIVES:	•			
1) Provide higher comfort level				
2) Improve air circulation with in the theatre				
3) Reduce air drafts at the stage level4) Allow the HVAC system to operate more efficient	entiv.			
•	nuj.			
BUDGET (include functional breakdown):			·	-
Direct Labour: Materials:				
Equipment :				
Other: Total:				
Total :				
		. •		
TIMING: Start: Upon receipt of funding		C	ompletion: 2004	
			mpicuon. 2007	
COST SAVING AND OTHER BENEFITS:				
		•		
IMPACT ON OPERATING BUDGET:	2004	2005	2006	
	\$	\$	\$	
PROJECT COST:				
Total Cost:				
Funding From Other Sources:				
Funding From Other Sources: Senior Government:				
Funding From Other Sources: Senior Government: Property Owners:				
Funding From Other Sources: Senior Government:				
Funding From Other Sources: Senior Government: Property Owners:			\$54,00	

2004 SUPPLEMENTARY CAPITA	AL BUDG	ET		
DEPARTMENT: Corporate Services Facilities	Design & M	anagement/Build	ing Services	
CATEGORY(Choose one of the following categ	gories):			
Facility: X Information Technolo	<u> </u>	(Other:	
PROJECT DESCRIPTION: Playhouse Theatre	Tohby Cooli	ina		
	Livery C.	пŘ		
PROJECT SUMMARY: (Consider History, Ol	bjectives, Tir	ming, Costs, & Fu	ınctional breakdown)	
HISTORY: Although heated and ventilated the Lobby of the Plof the newer chillers and advances in control system coils, valves and controls to allow mechanical cool The Lobby faces West and with full height window temperatures.	ms it is possib ling of the Lol	ble to extend the exobby.	xisting chilled water lin	nes, install cooling
OBJECTIVES: Not only would this project provide cooling for the the machine to run to it's optimum capacity greatly	: Lobby it wor increasing th	uld also put an add ne equipment life.	litional load on the chil	ler. This would allow
BUDGET (include functional breakdown):				•
Direct Labour:				
Materials : Equipment :				
Other:				
Total:				
TIMING: Start: Upon receipt of funding		C	ompletion: Spring 200)4
COST SAVING AND OTHER BENEFITS:				
IMPACT ON OPERATING BUDGET:	2004	2005	2006	·
	\$	\$	\$	
PROJECT COST: Total Cost:	•.			
Funding From Other Sources: Senior Government: Property Owners: Other(please specify):				
2004 Supplementary Capital Budget Requested:	-		\$_65,0 0)0
FOR INTERNAL USE ONLY Order Group:	Order Numb	ber:	PROJECT-NO.	. 17

CATEGORY(Choose one of the following cate			—	
Facility: $old X$ Information Technolog	оду: ∐		Other:	
PROJECT DESCRIPTION: Police Forensic G	arage Life Sa	ıfety Upgrade		
PROJECT SUMMARY: (Consider History, O HISTORY: At the request of the Police Facilities Manager and Associates to conduct a Life Safety Evaluation of Material handling systems are all non-compliant w	d Safety Office the Police Gar	er Building Service trage at 342 Alexan	es commissioned Gage Babcock & nder. Fire, Sprinkler, Ventilation, Haz	zardous
OBJECTIVES: To bring the fire and life safety systems at 342 Ale the 1999 Vancouver Fire Bylaw	xander street	into compliance w	ith the 1999 Vancouver Building By	ylaw and
	•			
BUDGET (include functional breakdown):				
Direct Labour: Materials: Equipment: Other: Total:				
TIMING:		,		
Start:	C	Completion:		
COST SAVING AND OTHER BENEFITS:				
IMPACT ON OPERATING BUDGET:	2004	2005	2006	
	\$	\$	\$	
PROJECT COST:				
Total Cost:				
Funding From Other Sources: Senior Government: Property Owners: Other(please specify):				
			\$195,000	

DEPARTMENT: Corporate So	·	; Management/Build	ing Services	
CATEGORY(Choose one of th				
Facility: X Inform	mation Technology:	(Other: \square	
PROJECT DESCRIPTION: Replace Water Cooled AC Unit s	serving 312 Main Systems (Computer Room		
PROJECT SUMMARY: (Cons HISTORY:	sider History, Objectives,	Timing, Costs, & Fi	inctional breakdown)	
The air-conditioning unit serving life. It is also water-cooled which	the computer room which as in now not compliant with	accesses the national current code and the	police data-base is at the end of City's Policy toward Green Bu	it's designed
OBJECTIVES: Replace existing non-compliant a	ged system with new air co	oled unit.		
BUDGET (include functional br	reakdown):			
Materials : Equipment : Other : Total :				
				·
TIMING: Start: Upon re	receipt of funding	· C	ompletion: ASAP	
COST SAVING AND OTHER E	BENEFITS:			
IMPACT ON OPERATING BU	DGET: 2004	2005	2006	
	\$	\$	\$	
PROJECT COST: Total Cost:				
Funding From Other Senior Governm Property Owner	ment:			
Other(please spo 2004 Supplementary Capital Bud			\$_60,000.00	
FOR INTERNAL USE ONLY Order Group:	OrdersN	lumber:	PROJECT NO.: 19	

2004 SUPPLEMENTARY CAPIT	AL BUD	SET		
DEPARTMENT: Corporate Services Facilitie	es Design & M	Ianagement/Build	ling Services	
CATEGORY (Choose one of the following cat	tegories):			
Facility: X Information Technol	logy: 🗌		Other:	
PROJECT DESCRIPTION: Replace Aged Do	omestic Water	Piping at QET		
PROJECT SUMMARY: (Consider History, CHISTORY:	Objectives, Ti	ming, Costs, & F	unctional breakdow	n)
The copper domestic water piping is original to the growing potential for pipe breakage resulting in rethe piping has worn it too thin to repair, then claim a temporary basis in an emergency. Entire section disruption of service	major damage i mps are used. T	to the facility. Spo This is not a pruder	ot repairs will become ont repair method and s	infeasible as the age of should only be used on
OBJECTIVES: To minimize damage to property	y and disruptic	on of events due to	water leaks.	
BUDGET (include functional breakdown): Direct Labour: Materials: Equipment: Other: Total:				
TIMING: Start: Upon receipt of funding		C	Completion: 2004	
COST SAVING AND OTHER BENEFITS:				
IMPACT ON OPERATING BUDGET:	2004	2005	2006	
•	\$	\$	\$	
PROJECT COST:				
Total Cost:				
Funding From Other Sources: Senior Government: Property Owners:				
Other(please specify): 2004 Supplementary Capital Budget Requested	<u>-</u>		\$ <u>.</u> :	53,000_
FOR INTERNAL USE ONLY Order Group:	Order Num		PROJECTNO	D:: 20

DEPARTMENT: Corporate Services For		, 		
DEPARTMENT: Corporate Services Fac	ilities Design & 1712	inagemenvъчны	ing Services	
CATEGORY(Choose one of the following	g categories):			
Facility: X Information Tec	chnology:	(Other:	
PROJECT DESCRIPTION: Replace Boi	ler Serving Van-City	y Building		
PROJECT SUMMARY: (Consider Historian	radiators is original to mmer maintenance it	o the building and t was discovered t	as recommended by the Pr	
OBJECTIVES: To ensure safe reliable heat	t source.			
BUDGET (include functional breakdown)):			·
Direct Labour: Materials: Equipment: Other: Total:				
TIMING: Start: Upon receipt of funding		C	ompletion: 2004	
COST SAVING AND OTHER BENEFITS	š:			
IMPACT ON OPERATING BUDGET:	2004	2005	2006	
	\$	\$	\$	
PROJECT COST: Total Cost:				
Funding From Other Sources: Senior Government: Property Owners: Other(please specify):				
2004 Supplementary Capital Budget Reque	ested:		\$_65,000	
FOR INTERNAL USE ONLY Order Group:	Order Numb	Xer:	PROJECT NO: 21	

2004 SUPPLEMENTARY	CAPITAL BUDG	ET	-	
DEPAREMENT: Library Bo	pard			
CATEGORY(Choose one of the follo	owing categories):			
Facility: Information	on Technology: \square	. (Other: X	
PROJECT DESCRIPTION: Shelving replacement at Marpole Brand	1			
PROJECT SUMMARY: (Consider HISTORY:	History, Objectives, Tin	ning, Costs, & Fu	inctional breakdown	n)
This shelving is 25 years old and is no required to properly house the collect public and staff.	ot meeting the needs of a tion. The new shelves w	the branch. Talle ill also be sciesmi	er stackes with deap ically braced, increa	er shelves are asing the safety for the
OBJECTIVES: To replace the shelving at Marpole.				
BUDGET (include functional breakd Direct Labour: 1,000 Materials: 55,600 Equipment: Other: 56,600			and a sec	
TIMING: Start: 2004	C	ompletion: 2004		
COST SAVING AND OTHER BENE	EFITS:			
IMPACT ON OPERATING BUDGE	T: 2004	2005	2006	
	\$0	\$0	\$0	
PROJECT COST: Total Cost:	56,600)		
Funding From Other Sour Senior Government: Property Owners:		·		
Other(please specify) 2004 Supplementary Capital Budget F	· · · · · · · · · · · · · · · · · · ·		\$	5 <u>6,600</u>
FOR INTERNAL USE ONLY Order Group:	Order Numb	ber:	PROJECT NO	D: 22

2004 SUPPLEMENTARY CAPIT	AL BUDC	ET		
DEPARTMENT: Library Board				
CATEGORY(Choose one of the following cat	tegories):			
Facility: Information Techno	ology: 🗆	(Other: X	
PROJECT DESCRIPTION: Shelving replacement at Britannia Branch				
PROJECT SUMMARY: (Consider History, HISTORY:	Objectives, Tir	ning, Costs, & Fu	inctional breakdov	wn)
The wooden shelves at this branch are 26 year adjust and cause splinters when shelving. New	rs old. They are ver, sciesmicall	e wobbly and app braced shelves a	ear unsafe. The wre required.	ood shelves are hard to
OBJECTIVES: To replace the shelving at Britannia.				
BUDGET (include functional breakdown):		·		
Direct Labour: 1,000 Materials: 85,000 Equipment: Other: Total: 86,000				
TIMING:				
Start: 2004	C	completion: 2004	l .	
COST SAVING AND OTHER BENEFITS:				4
IMPACT ON OPERATING BUDGET:	2004	2005	2006	
	\$0	\$0	\$0	
PROJECT COST: Total Cost:	86,000	<u>0</u>		
Funding From Other Sources: Senior Government: Property Owners:				
Other(please specify): 2004 Supplementary Capital Budget Requested	i:		\$	86,000
FOR INTERNAL USE ONLY			PROJECTY	No.: 23

Г

2004 SUPPLEM	ENTARY CAPITA	AL BUDGE	T			
DEPARTMENT:	Fire and Rescue Serv	ices				
CATEGORY(Choose	one of the following cate	gories):				
Facility:	Information Technolo	ogy:□		Other: 🛛		
PROJECT DESCRIPTION Fire Protection System I	To complete the containers and Hydro	he outfitting and sub deck at #1 F	mounting of e	quipment and	fire hos	e in the three Dedicate
	Y: (Consider History, O edicated Fire Protection S completed.					
These hose and equipme in 1995.	ent containers are an altern	ate hose distribu	ition system rep	lacing the Ho	se Wago	on Fire Trucks deferre
60 metres from the pump winch, and small equipm	a large portable water pum o, will need to have its hos nent need to be completed. added, to aid in stopping a	e pod and equip The Crane truc	ment box fitted k, which caries	to the deck at the Hydrosub	nd the or	utfitting, mounting of a
OBJECTIVES: Providen the event of a disaster.	e a system to lay large vol	umes of fire hos	e 1700 meters o	of 5 inch hose	from ea	ch of three hose pods
BUDGET (include func	ctional breakdown):					
Direct Labour:						
Materials : Equipment :	150,450					
Other : Total :	150,450	see attached b	oreakdown of c	osts.		
PIMINIC .						
FIMING : Start :	April 1, 2004		Completio	n:	Augu	st 30, 2004
COST SAVING AND O Hose Pods will be used i	THER BENEFITS: in lieu of requesting 4 add	ditional Hose W	agons.			
MPACT ON OPERAT	ING BUDGET:	2004	2005	2006		•
		\$ 150,450	\$	\$		
PROJECT COST:				·		
Total Cost:		15	<u>0, 450</u>			
	Other Sources: Government:					
Proper	ty Owners:			,		
Other (please specify):					
004 Supplementary Ca	pital Budget Requested:				\$	150,450
OR INTERNAL USE	ONLY			PROJE	CTNO	r. 24
		1				

2004 SUPPLEMENTARY CAPITAL BUDGET (continued) PROJECT NO.: 24

DEPARTMENT:

Fire and Rescue Services

PROJECT DESCRIPTION: To complete the outfitting and mounting of equipment and fire hose in the three Dedicated Fire Protection System hose containers and Hydrosub deck at #1 Firehall.

PROJECT SUMMARY (continued)

Construction of the DFPS was approved by Council in 1992 as part of a \$48 million dollar project to provide an alternate pressurized water supply for fire protection in the event of an earthquake or other emergency, and Council further approved a revised scope of work to the Dedicated Fire Protection System in 1995.

This Council Report recommended that the available funds for the purpose of the Fire Dept. support vehicles be re-allocated to the Coal Harbour Pump Station construction. Capital funds for the purchase of support vehicles would have to be added to a subsequent capital budget. Engineering has confirmed that no capital funds remain to complete this project.

These changes will allow Vancouver Fire & Rescue Services to lay up to 1700 metres (1 mile) of 123mm (5") fire hose from each of the three hose pods using the Dedicated Fire Protection System or city hydrants, without tying up multiple fire suppression apparatus and or personnel.

DEDICATED FIRE PROTECTIO	N SYSTEM - FIRE DEPT. FIRE HOSE PODS -	- COSTS	
FIRE HOSE PODS	125mm hose X 15M 50 Lengths	\$	25,000.00
	65mm hose X 15M 40 Lengths	\$	12,000.00
	38mm hose X 15M 40 Lengths	\$	6,000.00
	2- Portable lights x 3 pods = 6 @ \$750	\$	4,500.00
	2 – Power cords x 3 pods = 6	\$	600.00
	12-38mm and 65mm Nozzles	\$	12,000.00
	Nozzle/fitting Holders	\$	1,200.00
	Tiles & Ladder	\$	500.00
	6 - 4' x 4' Heavy Duty Tray Sliders	\$	4,500.00
	6 Additional Vancouver Valves	\$	30,000.00
	Add Hose Jumpers 12 @ 1,500 - 3,500	\$	18,000.00
CRANE TRUCK	Add lifting blocks and grippers etc.	\$	1,000.00
	Add additional chains and tie downs	\$	1,000.00
	Install battery charger	\$	1,500.00
	Install vehicle engine retarder	\$	10,000.00
HYDROSUB	Add a Backwater Valve	\$	2,000.00
· · · · · · · · · · · · · · · · · · ·	200 ft. of 5/16" cable	\$	500.00
	Hydraulic winch to life pump head	\$	1,800,00
	Hydraulic hose and valving	\$	750.00
	Install battery charger	\$	1,500.00
	6 - 4' x 4' heavy duty Tray Sliders	\$	1,500.00
LABOUR	Raise hose dividers 18" X 3 Pods	\$	3,600.00
	Install heavy duty trays x 6	\$	2,500.00
	Mount equipment	\$	1,500.00
	Install decals and striping	\$	1,000.00
HYDROSUB	Mount fire extinguisher x 3 pods Mount hose container and rails	\$	1,500.00
· · · · · · · · · · · · · · · · · · ·	Mount Hydrosub	\$	500.00
	Mount Trays x 2	\$	500.00
	Mount equipment	\$	1,000.00
CRANE TRUCK	Mount winch and tie downs	\$	1.500.00
APPARATUS/BUDGET/ DFPS 2004	TOTAL	\$	150,450.00

The second secon				
2004 SUPPLEMENTARY CAPIT	AL BUD	GEII	_	
DEPARTMENT: Vancouver Police Do	epartment	- FINANCIAL CR	RIME	,
CATEGORY(Choose one of the following cate	egories):			
Facility: Information Techno	logy:□X	O	Other:	
PROJECT DESCRIPTION: Equipment and a	associated So	ftware to do Intern	et and	Computer analysis investigations
·				
PROJECT SUMMARY: (Consider History, Consider History)	Objectives, T	iming, Costs, & Fu	nctiona	ıl breakdown)
HISTORY: The Financial Crime Section has requested f for the Computer Forensic Laboratory and the in order for the Vancouver Police Departmer support for critical investigations. This fundinecessary tools to keep pace with emerging t functional efficiencies in both areas. The following the support of the	he Internet In nt to maintair ing will provi technology ar	vestigator's position on an acceptable levide both of these eand will result in sign	on. Thi vel of p essentia gnifica	is equipment as mission critical bublic service and to provide I technical support units with the nt cost, human resource and
Equipment : Other :				
Total : \$86,900				
TIMING: Start:	1	Completion:		
COST SAVING AND OTHER BENEFITS:		Ovarp		
COST SAVING AND UTHER DENEFTIS.				
IMPACT ON OPERATING BUDGET:	2004	2005	2	2006
	\$86,900	\$	\$;
PROJECT COST:	26.000			
Total Cost:	86,900_			
Funding From Other Sources: Senior Government:				
Property Owners: Other(please specify):				
2004 Supplementary Capital Budget Requested	i:			\$
FOR INTERNAL USE ONLY Order Group:	Order Nur		rije i k	ROJECT-NO.: 25

2004 SUPPLEMENTARY CAPITAL BUDGET (continued)

PROJECT NO.: 25

DEPARTMENT:

VANCOUVER POLICE - FINANCIAL CRIME

PROJECT DESCRIPTION: Equipment and associated Software to do Internet and Computer analysis investigations

PROJECT SUMMARY (continued)

Overview

The Computer Investigative Support Unit began operation officially in March of 2000. The Unit was initially envisaged as a sub-component of what was then the Commercial Crime Unit. The Forensic Laboratory was equipped, via donations and sponsorships, with very basic hardware and equally basic software. The mandate was narrow; forensic analysis of computers used to commit fraud. The Internet Investigator's position was created shortly thereafter in response a public outcry over the emerging trend of Internet fraud. The Computer Investigative Support Unit was the first such unit created and staffed by a municipal police agency in British Columbia.

During the first year of operation, the Forensic Laboratory analyzed 8 computers. The amount of data contained in these units totaled less than 50 gigabytes. These investigations focused almost exclusively on counterfeit currency and credit cards, however one unit was seized from a sexual predator. In June of 2000, Detective-Constable Wray successfully recovered dozens of deleted pornographic photos from a computer owned by a known pedophile. This was to be an early indication of what would lie ahead. During the same period the Internet Investigator was assigned roughly 30 cases, all related to electronic fraud.

Evolution

Between the inception of the CISU and today, we have seen exponential growth in both the number of computers seized, their processing power and their storage capacity. In the last eighteen months alone the unit has investigated approximately 47 cases. These cases have involved one hundred and two computers, and over three terabytes (3000 gigabytes) of data. The scope of the work has also expanded. It is increasingly apparent that forensically recovered data will provide evidence in virtually every case wherein a perpetrator has access to a computer.

At present, the Computer Laboratory has on hand for examination, 12 machines seized during homicide investigations, 20 from the Domestic Violence Unit, 5 from the Sexual Offence Squad, 10 from Financial Crime and 12 from the Vice Unit. These are all "in the queue" awaiting comprehensive technical reports. These seizures are primarily related to crimes of violence, or situations where the threat of violence is present. Many involve the sexual exploitation of children. In such sensitive cases a lengthy delay pending analysis and/or data recovery is not an attractive option. In fact, to prevent harm to the victim(s) and to avoid significant public embarrassment for the Department, I submit that it is <u>not</u> an option.

In addition to computers, the Forensic Laboratory is now tasked with the electronic analysis and data recovery from a range of items such as Personal Digital Assistants, credit card skimmers, digital cameras, fax machines, cell phones and pagers. The Laboratory was never designed or equipped for this type of work and we have been forced to improvise with existing equipment.

The Internet Investigator has, this year, investigated 185 fraud allegations alone. In addition he has participated in roughly the same number of investigations with and for other Vancouver Police Divisions and our external partners. These are often critical matters and involve cases of child pornography, kidnapping, extortion, luring children for a sexual purpose, Internet bullying, stalking, threatening, identity theft, and denial of service attacks on major corporations. Clearly, each of these matters warrants immediate attention.

2004 SUPPLEMENTARY CAPITAL BUDGET (continued)

PROJECT NO.: 25

DEPARTMENT:

VANCOUVER POLICE - FINANCIAL CRIME

PROJECT DESCRIPTION: Equipment and associated Software to do Internet and Computer analysis investigations

PROJECT SUMMARY (continued)

OBJECTIVES: Current Issues

It is significant to this discussion that during the period from March 2000, to present, there has been no new equipment (hardware or software) provided to either functionality. What this has meant, in essence, is that we are now forcing old technology to try to keep pace with new and evolving technology. The results are both predictable and inevitable.

The Department has fallen behind, and this trend will only accelerate unless the requested upgrades are realized.

We currently experience lengthy and unavoidable delays in performing forensic analysis on seized computers.

We have no ability to properly analyze computers with Linux, Mac, or the latest versions of Windows operating systems.

We have no inventory of hard drives upon which to image, and no DVD burner to archive this data. Without becoming overly technical it is now common to see multiple hard drive machines with 80-100 gigabyte capacities. The Forensic Laboratory has no equipment capable of imaging this size of unit.

We currently have no ability to go off-site to image and seize computers that are "up and running", which, for our purposes, is the ideal situation.

Our analysis software (EnCase) is out of date and potentially subject to court challenge. We lack adequate licenses for this software.

The sheer volume of units seized for electronic analysis has caused the Section to assign a second investigator to support both the Laboratory and the Internet Investigator. This effectively reduces the capacity of the Financial Crime Section.

We have only one computer for Internet Crime and one computer for Forensic Analysis. Both are outdated. Both are, for lack of better terminology, agonizingly slow. Imaging a large hard drive can now take up to a day, during which time the technician is unable to pursue other work.

The Computer in the Forensic Laboratory is electronically unstable due to overuse. In brief the hard drive is failing.

Consequences and Opportunities

If the Computer Forensic Laboratory is not upgraded, longer delays are unavoidable. In very real terms we may have to turn away vital and urgent forensic analysis of machines holding key evidence in regard to homicide investigation, sexual offences, criminal harassment, and other crimes of violence.

With inadequate sized hard drives for imaging, our examiner will, one day, be confronted by a machine that he cannot analyze. This request ensures that we have an ample supply of 250-gigabyte drives, suitable for any machine that we would normally encounter.

The machines requested will effectively quadruple the speed at which the technician can image and analyze a hard drive. This cuts the analysis time by several orders of magnitude and, because we would have multiple units, the

2004 SUPPLEMENTARY CAPITAL BUDGET (continued)

PROJECT NO.: 25

DEPARTMENT:

VANCOUVER POLICE - FINANCIAL CRIME

PROJECT DESCRIPTION: Equipment and associated Software to do Internet and Computer analysis investigations

PROJECT SUMMARY (continued)

member is free to conduct several examinations at one time. Results are available in minutes instead of days or weeks. In some types of investigations minutes are critical to success or failure.

New and up to date software for the Laboratory and the Internet position is urgently required. This would speed up investigations and avoid a potential court challenge. I cite following case reported to me from Detective-Constable Wray as an example:

"I had a Vice case where a judge ordered the return of a seized computer containing child porn because it hadn't been fully analyzed in the initial 3 month seizure period. The suspect had contested when Vice applied for an extension to the 5.2 in Court and the Judge then ordered the return of the computer (with the child porn). Albeit the Judge was acting on his own ill-informed opinions as to the ease and length of time taken to actually analyze a computer hard drive, it still could have been prevented."

The Internet Investigator has similar challenges with respect to volume. Cybercrime in all its various forms is expanding rapidly. The former "Nigerian Letter" fraud is but one example where an old scam has "gone electronic".

The Internet position requires an adequate stand-alone machine and a laptop for field use, as well as some highly sophisticated tracing software. A recent kidnapping, where the suspect communicated by email, required an immediate field response. In this particular case the offender was unsophisticated and was quickly identified by his IP address. Had he used his own "stealth" technology it is unlikely that our investigator could have located him using our current software.

Conclusion and Recommendation

The comprehensive list of requested equipment is quite technical and Insp. Meanley is prepared to discuss it in detail should that be necessary.

The crimes that our members investigate, or assist other investigators to pursue, are not "victimless crimes". Many are violent. Many involve children. Many demand immediate responses. All involve a level of technical expertise that must be adequately supported to be effective.

Inspector McQuiggin of our Information Technology Section has reviewed all the items referenced in this request. His comments are as follows:

"This equipment and software appears to me to be absolutely essential for the work that has evolved in the areas of computer forensics, data analysis, technological crime, electronic communications and Internet crime. These are huge problems for policing today and we haven't given them the attention they deserve, so we are really playing catch-up. From a technical perspective I give this my full and unqualified support. In fact, if anything, this is a minimal request. You should probably be looking towards something considerably bigger such as a mirrored array and large rack servers. That is a very expensive proposition. Your costs seem to me to be quite reasonable but I have my staff doing a workup for you. Wherever possible our Sections should use the same supplier and standard interchangeable items. We may be able to shave a few dollars off the bottom line, but these figures are right in the ballpark".

2004 SUPPLEMENTARY CAPITAL BUDGET (continued) PROJECT NO.: 25

DEPAREMENT:

VANCOUVER POLICE - FINANCIAL CRIME

PROJECT DESCRIPTION: Equipment and associated Software to do Internet and Computer analysis investigations

PROJECT SUMMARY (continued)

K. McQuiggin, Inspector,

I/C Information Technology Section

This funding, if approved, will provide us with the necessary tools to continue our important work in this field. It will reap additional rewards in terms of efficiency, productivity and capacity. It will give us technology on par with the criminals that we are attempting to suppress.

FORENSIC LAB

(note prices are broken down in US and CAN funds based on the supplier)

<u>Hardware</u>			
Item	Required	Cost	Total
Sony Vaio Laptop PCGTR2AP3	. 1	3700	3700
Vaio USB Optical Mouse PCGAUMS5	1	60	60
AC adapter TR-Series PCGAAC16V6	1	150	150
Logitech wireless keyboard/mouse	2	100	200
Various cables/connectors/HD storage cases		500	500
Western Digital 250 GB Harddrives	20	400	8000
HP colour laser printer	1	2000	2000
Canon Mini DV camcorder	1	2000	2000
Canon compact digital camera	1	1000	1000
Canadian \$			\$17,610.00
taxes @ 14.5%			\$2,553.45
			\$20,163.45
Digital Intelligence NoWrite FlashBlock	2	500	1000
Digital Intelligence NoWrite Write Blocker	6	300	2100
Digital Intelligence FireFly Read Only	1	150	150
Digital Intelligence FireFly Read/Write	1	150	150
Digital Intelligence FireChief	2	500	1000
SmartView MultiScreen Dual Display KVM Switch SVMS4	3	500	1500
US\$			\$5,900.00
(current exchange @ 1.4) Canadian \$			\$8260.00
Forensic Computers			

Lian Li PC 6077 Aluminum Tower PC case	6
Lian Li RH 600 IDE removable bays	12
Asus Dual Processor P4 Mother Boards	6
Intel Dual P4 3.2 GigHertz Processor	6

2004 SUPPLEMENTARY CAPITAL BUDGET (continued) PROJECT NO.: 25 DEPARTMENT: VANCOUVER POLICE - FINANCIAL CRIME PROJECT DESCRIPTION: Equipment and associated Software to do Internet and Computer analysis investigations PROJECT SUMMARY (continued) 6 1 GB RAM 3.5" Floppy CD-ROM LGE GSA 4040B DVD Burner Power units, fans, thermostats and cabling 6 Samsung LCD 181T monitors CAN\$ (including taxes) \$24,000.00 Software Paraben Email Examiner 2 110 220 2 200 400 Paraben PDA Seizure 2 Paraben PDA Seizure Toolkit 300 600 2 35 75 ClikView File Viewer 2 700 1400 AccessData Forensic Toolkit 2 **SMART** for Linux 650 1300 3 Encase v4 2000 6000 2 400 800 Microsoft XP Pro 2 400 800 Microsoft XP Pro Office SecurDataStor Platinum 2 160 320 2 650 1300 HP iPAQ Pocket PC h5550 US \$ \$13,215.00 \$18,501.00 (current exchange @ 1.4) Canadian \$ Total in CAN funds for Forensic Lab \$70,924.45 Note: cost does not include shipping

2004 SUPPLEMENTARY CAPITAL BUDGET (continued) PROJECT NO.: 25

DEPARTMENT:

VANCOUVER POLICE – FINANCIAL CRIME

PROJECT DESCRIPTION: Equipment and associated Software to do Internet and Computer analysis investigations

PROJECT SUMMARY (continued)

INTERNET INVEST

Hardware			
Item	Required	Cost	Total
Western Digital 250 GB Harddrives	5	400	2000
HP iPAQ Pocket PC h5550	1	910	910
Sony Vaio Laptop PCGTR2AP3	1	3700	3700
Vaio USB Optical Mouse PCGAUMS5	. 1	60	60
AC adapter TR-Series PCGAAC16V6	1	150	150
Logitech wireless keyboard/mouse	2	100	200
Various cables/connectors/HD storage cases		500	500
CAN\$			\$8,320.00
taxes @ 14.5%			\$1,206.40
			\$9,526.40
Internet Computer			
Lian Li PC Aluminum Tower PC case	1		
Modem & Network card	1		
Asus Dual Processor P4 Mother Boards	. 1	i .	
Intel Dual P4 3.2 GigHertz Processor	1		
1 GB RAM	1		
3.5" Floppy	1		
CD-ROM	1		
LGE GSA 4040B DVD Burner	1		
Power units, fans, thermostats and cabling	1		
Samsung LCD 181T monitors Router	1		
Router		*	#2 020 00
tower @ 14.50/			\$3,920.00
taxes @ 14.5%			\$568.40
Software			\$4,488.40
Microsoft XP Pro Office	2	500	1000
Microsoft XP Pro	1	500	500
Visual Route	3	70	210
			\$1,710.00
taxes @ 14.5%		·	\$247.95
			\$1,957.95
Total in CAN funds for Internet Investigator			<u>\$15,972.75</u>

2004 SUPPLEMEN			2 T	
DEPAREMENT: I	Information Managem	ent Section		· · · · · · · · · · · · · · · · · · ·
CATEGORY(Choose one	of the following categ	ories):		
•	nformation Technolog		-	Other:
PROJECT DESCRIPTION				
PROJECT SUMMARY: (Consider History, Ob	jectives, Tim	ing, Costs, & F	Functional breakdown)
HISTORY: Documents between 1960 to electronic.	o 2001 were microfiln	aed. With the	; implementati	tion of PRIME operational records are
OBJECTIVES:				
		microfilm doc	:uments to the	e LAN. Employ one person for one year to
Direct Labour:	7.			
Materials :				
Other:	\$100,000 <u> </u>	-		
	\$140,000	-		•
TIMING:		· · · · · · · · · · · · · · · · · · ·		
TIMING: Start: Spring 200	4		Complet	tion: One year
COST SAVING AND OTH Departmental access, free m printer.		iplement scan	ning to RMS.	Eliminate maintenance costs to microfilm
IMPACT ON OPERATING	BUDGET:	2004	2005	2006
		\$	\$	\$
PROJECT COST:	,			
Total Cost:		_\$140,000		,
Funding From Ot Senior Gov Property O Other(pleas	vernment: Owners:			
2004 Supplementary Capital	Budget Requested:			\$140,000
FOR INTERNAL USE ONL Order Group:		Order Numbe	ər:	PROJECT NO.: 26

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2004 SUPPLEMENTARY CAPIT	AL BUDG	ET			
DEPARTMENT: Vancouver	r Police De	partment			
CATEGORY(Choose one of the following cate	egories):				
Facility: Information Technol	logy:□X		Other:		
PROJECT DESCRIPTION: Help Desk Software Replacem	nent			·	
PROJECT SUMMARY: (Consider History, C	Objectives, Tim	ing, Costs, & Fi	anctional bre	akdown)	
HISTORY: The VPD IT Section currently spreadsheet and associated macros, and a small A generate statistics. This system provides minimal a spreadsheet to manage calls for service. There rely on the telephone or email to interact with IT problematic, as it prioritization, effective resolution.	Access database, I functionality a is no facility what to get their prob	, that were intende and several aspect hereby users can e blem resolved. Ca	ed to manage ts of it do not enter requests all assignmen	help desk calls for s work. Help desk sta s on their own, and that through the spread	ervice and off now use ney have to
BUDGET (include functional breakdown):					
Direct Labour: Materials :					÷
Equipment :					
Other: \$150,000					
TIMING: Start: January 2004		C	Completion:	Spring 2004	
COST SAVING AND OTHER BENEFITS:		. 2			
IMPACT ON OPERATING BUDGET:	2004	2005	2006		
	\$	\$	\$		
Resolution time for user calls for service is expected initiation of calls, automatic assignment and probled 10,000 service requests per year, this will result in portfolios, which they carry in addition to their independent of the control of the	em tracking, and better utilizatio	d better inventory on of staff time an	management d free up staf	t. VPD IT receives a	lmost
PROJECT COST: Total Cost:	\$150,000			·	
Funding From Other Sources:					
Senior Government: Property Owners:					
Other(please specify):					
2004 Supplementary Capital Budget Requested	:			\$150,000	
FOR INTERNAL USE ONLY Order Group:			PROJ	ECT NO.: 27	

2004 SUPPLEMENTARY CAPITAL BUDGET (continued)	PROJECT NO.: 27
DEPARAMENT:	
Vancouver Police Department	
PROJECT DESCRIPTION:	
Help Desk Software Replacement	
PROJECT SUMMARY (continued)	
OBJECTIVES: The objective is to replace the current system with industry-standard to initiate calls for service on their own through a web-based interface, manage the prioritization and assignment to help desk staff, standardize record keeping, and general also contains an inventory/asset management component that will help the IT Section track equipment and other resources. The solution includes a problem tracking compulstance (frequently-asked questions) documents for the users. This solution will management, inventory control, and software upgrades, with consequent improvements. Over the past four months IT staff have researched several solutions, evaluated three order to determine viability of each solution. The chosen package meets Departmental in the Control of the past four months.	he calls for service efficiently, allow the full statistics. The proposed system a, the Facilities Section, and the Fleet, conent that will simplify production of also assist the Department in asset in response time and efficiency. products, and conducted site visits in needs and is extensible to allow it to be
used by other Sections including Human Resources, Facilities, the Fleet, and Finance. balances features and facilities with cost, is an industry leader, and will meet the IT Sect	The chosen product, called "Remedy", ion's needs for the future.
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2004 SUPPLEMENTARY CAPITA	AL BUDGET
DEPAREMENT: Vancouver	Police Department
CATEGORY(Choose one of the following category	gories):
Facility: Information Technology	gy: 🗆 X Other: 🗆
PROJECT DESCRIPTION: Emergency Backup Server Faci	
	bjectives, Timing, Costs, & Functional breakdown)
earthquake, or other unexpected event at 3 disrupted. The computer network linking al Comm would be disrupted, advanced telepho	ly lacks a backup server facility. In the event of fire, water ingress 312 Main Street, all Departmental computing services would be all Departmental facilities would be down, communications with Earlie services would be non-existent, email would be unavailable, and evestigative information for all police members would be unavailable department would be almost totally negated.
BUDGET (include functional breakdown):	
Direct Labour: Materials: Equipment: Other: Total: \$141,000	
TIMING: Start: January 2004	Completion: Fall 2004
COST SAVING AND OTHER BENEFITS:	
IMPACT ON OPERATING BUDGET:	2004 2005 2006
and 2005, but no direct impact on a potential cost to the Department, a unrecoverable disaster, however, is significant increase in hours works	uired in completion of this project both for 2004 the operational budget is anticipated. The the City, and the public in the event of an s huge, and would likely be felt in terms of a ed.
PROJECT COST: Total Cost:	\$141,000 in 2004, and \$108,000 in 2005.
Funding From Other Sources: Senior Government: Property Owners: Other(please specify):	
2004 Supplementary Capital Budget Requested:	\$141,000
FOR INTERNAL USE ONLY Order Group:	PROJECT NO.: 28 Order Number:

2004 SUPPLEMENTARY CAPITAL BUDGET (continued) PROJECT NO.: 28

DEPARTMENT:

Vancouver Police Department

PROJECT DESCRIPTION:

Emergency Backup Server Facility

PROJECT SUMMARY (continued)

While the backup procedure for all Departmental data ensures that email, data files, databases, and other information is safely and securely backed up and stored securely offsite, resumption of business following a disaster such as described above would be dependent on acquisition and setup of computer servers and network hardware to restore these backup tapes to. The current estimate for resumption of major Departmental services is three to four weeks, based on availability of servers and network equipment.

At the present time, a network-attached storage device that mirrors critical Departmental data from 312 Main is located in a mechanical room at 2120 Cambie St. This device was purchased and installed in late 2001, and while it meets minimal real time data backup needs, no backup servers exist. In the event of a disaster at 312 Main, our data would be safe, but we would have no servers with which to make that data available to Departmental staff.

The current facility contains water and other pipes, lacks air conditioning and adequate electrical power, and robust network connections. It is also too small in size. As a mechanical room, shared access is implied, and this presents a security risk for Departmental data. The current facility needs to be replaced.

OBJECTIVES: The objective of this project is to establish a backup server facility at the Police Service Building (PSB) at 5 E 8th Avenue, that will include backup email, database, web, telephone system, network, and other servers, as well as mirror all departmental data in real time. The current network storage device at 2120 Cambie will be moved to this facility and augmented by additional disk storage and backup servers. The existence of this facility will allow quick resumption of Departmental operations without loss of data should a natural disaster or other calamity render the computer room at 312 Main St. inoperative.

Over the past six months IT Section staff have conducted research and developed a valid plan for creation of this backup/emergency facility. The total capital cost of this project is estimated at \$249,000 dollars but has been split into two portions that may be implemented in 2004 (infrastructure and the most critical servers/facilities) and 2005 (remaining servers/facilities).

The PSB has sufficient space to house this backup server facility on the main floor of the building behind the security desk. The proposal includes building a secure room in this space, upgrading electrical and air conditioning to support the facility, extending network connections and performing other related work.

The physical aspects of this plan have been reviewed by Ms. Trisha Begg, VPD Facilities Manager, and she has indicated that such work is viable at the PSB. She has spoken to Mr. Clyde Hosein, COV Facilities Director, about this plan, and funding for the physical/renovations portion of this project is available through other channels. This request deals only with the IT aspects of the project.

	ITAL BUDGET (c	PROJECT NO.: 28

DEPARTMENT:

Vancouver Police Department

PROJECT DESCRIPTION:

Emergency Backup Server Facility

PROJECT SUMMARY (continued)

The project for 2004 may be broken down as follows:

Data communications and related Equipment \$10,000

Cable trays \$1,500

Electrical work \$8,000

Uninterruptible Power Supply (UPS) \$22,000

Equipment racks \$1,500

3 servers \$27,600

Tape library \$65,000

Peripheral equipment \$5,000

TOTAL: \$140,600 (\$141,000)

This figure does not include renovation costs for the PSB, which will be submitted in a separate request from COV/VPD Facilities.

2004 SUPPLEME	NTARY CAPI	TAL BUDG	ET		
DEPARTMENT:	Vancouve	er Police De	partment		
CATEGORY(Choose on	ne of the following ca	itegories):	······································		
Facility:	Information Techno	ology: 🗆 X		Other:	
PROJECT DESCRIPTION Storage Area					
PROJECT SUMMARY:	: (Consider History,	Objectives, Tim	ning, Costs, &	Functional brea	akdown)
Departmental employees. information. The disk sp storage device mirrors the backup the data in real time.	Networked storage pace is provided through first device, and is lone so that in the event is also backed up to the source of the	e is used to storo bugh a network-a ocated in a mecha of loss of either of tape on a daily ba	e investigativattached storaganical room at device, Depart asis and stored	re files, administr ge device at 312 t 2120 Cambie St tmental operations I securely offsite,	to permit recovery in the eve
archived to tape as quickly	y as possible in order	r to free up online	e storage, use	r adoption of new	ces. While older data is being techniques such as document to capacity will be exceeded by
BUDGET (include functi	ional breakdown):				
Direct Labour: Materials : Equipment : Other :					
	\$200,000				
TIMING: Start: Januar	y 2004			Completion:	Fall 2004
COST SAVING AND OT	HER BENEFITS:				
IMPACT ON OPERATION	NG BUDGET:	2004	2005	2006	·
PROJECT COST: Total Cost:		\$200,000)		
Property	Government: y Owners:				
2004 Supplementary Cap	lease specify): ital Budget Requeste	 :d:			\$200,000
FOR INTERNAL USE O Order Group:	NLY	Order Numl	oer:	PROJ	ECT NO.: 29

2004 SUPPLEMENTARY CAPITAL BUDGET (continued) PROJECT NO.: 29 DEPARTMENT: Vancouver Police Department PROJECT DESCRIPTION: Storage Area Network PROJECT SUMMARY (continued) OBJECTIVES: The existing storage devices are significantly expandable, so a simplistic solution is to purchase additional disk drives in order to increase networked storage capacity. However, this is not the most cost-effective solution. Study by IT staff has determined that a more appropriate solution to the problem is to upgrade the Department's storage methodology to a "storage area network" (SAN) that would improve flexibility and performance, and automate storage management, thus improving the Department's position in the longer term. The existing devices can be integrated into the new approach thus preserving our investment. The new approach will allow storage media of different types to be integrated seamlessly into the Department's network. Little used data may be automatically backed up to CD, DVD, or a tape library, and restored on demand, without IT staff or user intervention, using a technique called "Hierarchical Storage Management" (HSM). Full HSM is planned as a follow-up project in 2005, but this current proposal will establish a workable framework towards that goal. HSM was removed from this proposal in order to cut costs for 2004. Performance will improve through the use of faster new technology that allows servers to access networked storage at much higher speeds. This will reduce network overhead, increase the speed of backups, and introduce the capability of mirroring server-side data as well as networked storage. This means that in the event of disaster, new servers will be immediately bootable rather than having to be configured from scratch by IT Section personnel. This approach is identical to that proposed by COV IT as the direction for servers and data on the corporate network. IT staff consulted with COV IT in their research and in the development of this proposal. VPD IT is conducting a data usage and network storage audit that will further analyze current storage utilization, user trends. and the specifics of the SAN architecture necessary to support Departmental needs well into the future. The general approach to storage management as described in this request is consistent with storage technology developments in industry, and COV IT has recently adopted a similar approach.

2004 SUPPLEMENTARY CAPITA	AL BUDG	FET		
DEPARTMENT: Vancouver	Police De	epartment		
CATEGORY(Choose one of the following cate	gories):			-
Facility: Information Technology	ogy:□X		Other:	
PROJECT DESCRIPTION: Upgrade to Software Management	ent Servic	ce		
PROJECT SUMMARY: (Consider History, O	bjectives, Tir	ming, Costs, & F	unctional bre	akdown)
HISTORY: The VPD internal computer network hundred other pieces or peripheral equipment. Mo	work encompa ost machines r	asses approximate run the Microsoft	ely eight hundr Windows oper	ed personal computers and two rating system.
Software on these computers must frequently be u remotely. SMS also allows our help desk to troub tool in desktop management.	pdated. An ap leshoot user p	pplication called s problems interacti	SMS allows the vely. SMS is a	ese updates to be installed a valuable and cost effective
The version of SMS being used within the Departi limitations that preclude certain updates, such as s recent security patches to the Windows operating version of SMS. As a result, IT staff had to physic took 11 staff members the better part of a day. Co	ecurity patche system could i cally visit each	es, from being don not be distributed h of 800 compute	ne centrally thr automatically rs and manuall	ough SMS. For example, two to all machines by our old y install the updates. This
BUDGET (include functional breakdown):				
Direct Labour: Materials: Equipment: Other:				
Total: \$52,000				
TIMING: Start: January 2004		•	Completion:	Spring 2004
COST SAVING AND OTHER BENEFITS:				
As described above. A single non- Department \$11,000 through the nec	distribut essity of	able operati doing a mar	ing system nual insta	patch cost the ll on 800 computers.
IMPACT ON OPERATING BUDGET:	2004	2005	2006	
Potentially \$11,000 savings per	security	patch or oth	ner necess	ary upgrade.
PROJECT COST: Total Cost:	\$52,000			
Funding From Other Sources: Senior Government: Property Owners: Other(please specify):				
2004 Supplementary Capital Budget Requested	:			\$52,000
FOR INTERNAL USE ONLY Order Group:	Order Nun		PROJ	ECT NO.: 30

	MERTALEY/CAPI	ALTUBULT Contin	ied) PROJECT No. 30							
BOCOCOURS:										
Vancouver Poli	ce Department		· · · · · · · · · · · · · · · · · · ·							
Upgrade to Software Management Service										
PROJECT SUMMA										
OBJECTIVES: The objective of this request is to upgrade the Department's systems and network to the latest version of SMS. This will enable remote updates as described above, and also enhance our help desk's troubleshooting and diagnostic capabilities when dealing with user problems.										
This will save money in the long run and improve the effectiveness of police administrative and investigative operations.										
·										
	·									
i	· ,	13								

2004 SUPPLEMENTARY CAPITA	LBUD	GET		
DEPARTMENT: Vancouver Police Department	t			
CATEGORY(Choose one of the following category	ories):		•	
Facility: Information Technolog	y:X	O	ther:	
PROJECT DESCRIPTION: SECURITY POLIC SECURITY SYSTEM IN EVIDENCE STORAGE	AREAS (OF 312 MAIN AND	324 ALEXANI	DER
PROJECT SUMMARY: (Consider History, Ob. HISTORY:	jectives, T	fiming, Costs, & Fu	nctional breal	(down)
\$68,000. To install a card access security system Alexander to provide controlled access and handlin These areas include the drug, alcohol and firearms a The VPD's storage of evidence is at risk for loss compromising of investigation cases and the concer	g of evide areas as we s due to u	ence as directed by the ell as the cash and value ancontrolled access a	e City of Vanc luables areas. and handling.	ge areas in 312 Main and 324 ouver's Internal Audit report. There is a concern for the
The City's Internal Audit division has completed security systems and video monitoring be investigat	an audit o æd.	of the evidence stora	ge areas and r	recommended that monitored
The VPD is responsible for the care and control of e storage and handling of evidence do not meet reason. This security request has been discussed with the and/or the recommendations as outlined in the City.	nable secur input and	rity requirements. I recommendations of	of the City of	
OBJECTIVES:				
BUDGET (include functional breakdown):				•
Direct Labour: Materials: Equipment: Other: Total:				
TIMING: Start:		Completion:		
COST SAVING AND OTHER BENEFITS:			·	
			2006	
IMPACT ON OPERATING BUDGET:	2004	2005	2006	
	\$	\$	\$	
PROJECT COST: Total Cost:	\$68,000			
Funding From Other Sources: Senior Government: Property Owners: Other(please specify):				
2004 Supplementary Capital Budget Requested:				\$ 68,000
FOR INTERNAL USE ONLY Order Group:	Order N	umber:	PROJE	CTNO:: 31

2004 SUPPLEMENTARY CAPITA	L BUD	GET						
DEPARTMENT: Corporate Services Facilities Design & Management/Building Services								
CATEGORY(Choose one of the following categ	ories):							
Facility: 🗆 X Information Technolog			Other:					
PROJECT DESCRIPTION: Police Support 5	East 8 th Em	ergency Generato	or Replac	ement				
PROJECT SUMMARY: (Consider History, Objectives, Timing, Costs, & Functional breakdown) HISTORY: The emergency generator serving the Police Support Facility at 5 East 8 th Avenue is not currently distributed serve the emergency load. It is more economical to place the entire facility on emergency power with a larger generator than to rewire emergency circuits within the facility for current load and anticipated future changes. Also this would allow relocation of staff and equipment within the facility without future consideration of configuring								
emergency power supply to suit. It would be available								
OBJECTIVES:								
To bring 5 East 8th Avenue emergency generator up to a standard capable of providing the required service.								
BUDGET (include functional breakdown):			·					
Direct Labour: Materials :								
Equipment:								
Other:								
Total :								
	-		<u></u>		· · ·			
TIMING:		~ .1-42						
Start :	•	Completion:						
COST SAVING AND OTHER BENEFITS:								
IMPACT ON OPERATING BUDGET:	2004	2005	20	006				
	\$	\$	\$					
PROJECT COST: Total Cost:								
Funding From Other Sources: Senior Government: Property Owners: Other(please specify):		<u>. </u>						
2004 Supplementary Capital Budget Requested:				\$_320,000				
FOR INTERNAL USE ONLY Order Group:	Order Nun		P.	ROJECT NO.: 32				