

CAPITAL COSTS	COMPONENT NAME	COST	LAND LIABILITY	WATER LIABILITY
	WELLS AND FACILITIES	\$47,817,087	\$47,817,087	\$0
	BUILDINGS AND EQUIPMENT	\$45,245,889	\$45,245,889	\$0
	CHEMICALS AND CONTAMINATED SOIL MANAGEMENT	\$20,717,805	\$20,717,805	\$0
	CONSTRUCTION OF ONSITE LANDFILL	\$18,650,000	\$18,650,000	\$0
	SURFACE AND GROUNDWATER MANAGEMENT	\$6,309,975	\$0	\$6,309,975
	INTERIM CARE AND MAINTENANCE	\$6,787,503	\$4,072,502	\$2,715,001
	SUBTOTAL: Capital Costs	\$145,528,259	\$136,503,283	\$9,024,976
	PERCENT OF SUBTOTAL		93.80%	6.20%

INDIRECT COSTS		COST	LAND LIABILITY	WATER LIABILITY
	MOBILIZATION/DEMObILIZATION	\$3,008,630	\$2,822,049	\$186,581
	POST-CLOSURE MONITORING AND MAINTENANCE	\$23,931,505	\$1,093,233	\$22,838,272
	ENGINEERING	5% \$7,276,413	\$6,825,164	\$451,249
	PROJECT MANAGEMENT	5% \$7,276,413	\$6,825,164	\$451,249
	HEALTH AND SAFETY PLANS/MONITORING & QA/QC	1% \$1,455,283	\$1,365,033	\$90,250
	BONDING/INSURANCE	1% \$1,455,283	\$1,365,033	\$90,250
	CONTINGENCY	25% \$36,382,065	\$34,125,821	\$2,256,244
	MARKET PRICE FACTOR ADJUSTMENT	0% \$0	\$0	\$0
	INFLATION ADJUSTMENT	0.52% \$749,502	\$703,021	\$46,481
	SUBTOTAL: Indirect Costs	\$81,535,093	\$55,124,518	\$26,410,575
	TOTAL COSTS	\$227,063,351	\$191,627,801	\$35,435,551

Wells and Facilities - All Land Owners

ACTIVITY/MATERIAL	Notes	Units	Quantity	Cost Code	Unit Cost	Cost % Land	Land Cost	Water Cost
OBJECTIVE: ABANDONMENT OF WELLS								
All wells- Drilled / Cased		wells		#N/A				
Sweet Well - Completed / Active / Inactive	<1000m	wells	351	SWWLS	\$56,600	100%	\$19,866,600	
Sweet Well - Completed / Active / Inactive	1000-2000m	wells	2	SWWL2S	\$71,200	100%	\$142,400	
Sour Well (H2S>1%) - Completed / Active / Inactive		wells		#N/A				
Vent Flow / Gas Migration		wells	177	VFGMS	\$87,200	100%	\$15,390,800	
Additional Completion Zones				#N/A				
Hauling and Disposal of Well Site Equipment		m3	9562	#N/A	\$5,250,000	100%	\$5,250,000	
OBJECTIVE: ABANDONMENT OF PRODUCTION FACILITIES								
Above ground flowlines		m3	27730	PSRL	\$1	100%	\$27,730	
Cut and cap of flowlines		each	1046	CNCS	\$6,826	100%	\$7,139,557	
Oil / bitumen process or injection / disposal facility		m3/day	1	#N/A		100%		
Gas processing facility		m3/day		#N/A		100%		
Gas dehydration facility		m3/day		#N/A		100%		
Compressor station		KW		#N/A		100%		
Battery sites		m3/day		#N/A		100%		
Battery sites w/ separation, compression, injection and/or disposal equipment		m3/day		#N/A		100%		
Satellite batteries		m3/day		#N/A		100%		
Other stations		m2		#N/A		100%		
Total					\$47,817,087		\$47,817,087	
% of Total							100.00	

Line Item inserted by AMEC, assume high spec soil hauling rate. AMEC unsupported number of \$135,776 has been replaced with a more appropriate estimate.

Line item inserted by AMEC. Revised to work with length of above ground piping rather than volume of piping & bulk excavation costing. Assumes piping is less than 6" diameter.

Building / Equip Name: All Land Owners

ACTIVITY/MATERIAL	Notes	Units	Quantity	Cost Code	Unit Cost	Cost	% Land	Land Cost	Water Cost
OBJECTIVE: DISPOSE MOBILE EQUIPMENT									
Decontaminate and ship off-site		each		#N/A			100%		
Decontaminate, dispose on-site		each		#N/A			100%		
Other		each		#N/A			100%		
OBJECTIVE: BUILDING DECONTAMINATION & HAZ. MATERIAL REMOVAL									
Decontaminate, oil, fuel and glycol systems		mandays	16230	PFLWS	\$1,000.00	\$16,230,000	100%	\$16,230,000	
Decontaminate, general		mandays	27070	PFLAS	\$225.00	\$6,090,750	100%	\$6,090,750	
Mechanical		mandays		#N/A			100%		
Electrical		mandays	1	UTISS	\$1,000,000.00	\$1,000,000	100%	\$1,000,000	
Decontaminate maintenance shop		each		#N/A			100%		
Decontaminate power plant		each		#N/A			100%		
Decontaminate bulk fuel storage		each	29	TFLS	\$15,000.00	\$435,000	100%	\$435,000	
Decontaminate offices/warehouse/accom		each		#N/A			100%		
Removal of asbestos siding on buildings		each		#N/A			100%		
Removal of friable asbestos on equipment		each		#N/A			100%		
Other				#N/A			100%		
OBJECTIVE: REMOVE BUILDINGS - ALL BUILDING AREAS SCALED TO ACCOUNT FOR HEIGHT				(Buildings with m2 area have had areas for demo costing doubled to consider average height of 2 stories)					
Accommodation Complex		m2		#N/A			100%		
Central Processing Facility		m2	18692	BRS1H	\$65	\$1,215,004	100%	\$1,215,004	
Process Facilities		m2	7564	BRS1H	\$65	\$491,660	100%	\$491,660	
Offices, Repair, Lab, Warehouse		m2	4316	BRS1H	\$65	\$280,508	100%	\$280,508	
Storage Facilities		m2	8943	BRS1H	\$65	\$581,295	100%	\$581,295	
Water and Wastewater Treatment Facilities		m2		#N/A			100%		
U/G Heating Plant		m2		#N/A			100%		
Emulsion Plant		m2		#N/A			100%		
AN Storage Facility		m2		#N/A			100%		
Warehouse, Shops and Other		m2	8464	BRS1H	\$65	\$550,128	100%	\$550,128	
Storage Facility at Laydown/Airstrip		m2		#N/A			100%		
Storage tanks		tonnes	2440	#N/A	\$500	\$1,220,000	100%	\$1,220,000	
Fuel Tanks		tonnes		#N/A			100%		
Freshwater intake		m2	114	BRS1H	\$65	\$7,410	100%	\$7,410	
Reclaim pumps		m2		#N/A			100%		
Outfall & Diffuser		m2		#N/A			100%		
Airstrip lighting, navigation, electrician		mandays		#N/A			100%		
Airstrip lighting, navigation, mechanical		mandays		#N/A			100%		
Consolidate & dump boneyard debris		m3		#N/A			100%		
other		m	5100	FNCL	\$14	\$69,105	100%	\$69,105	
OBJECTIVE: BREAK BASEMENT SLABS									
Accommodation Complex		m2		#N/A			100%		
Central Processing Facility		m2	9346	BRCL	\$40	\$373,847	100%	\$373,847	
Process Facilities		m2	3782	BRCL	\$40	\$151,280	100%	\$151,280	
Offices, Repair, Lab, Warehouse		m2	2158	BRCL	\$40	\$86,310	100%	\$86,310	
Storage Facilities		m2	4472	BRCL	\$40	\$178,860	100%	\$178,860	
Water and Wastewater Treatment Facilities		m2		#N/A			100%		
U/G Heating Plant		m2		#N/A			100%		
Emulsion Plant		m2		#N/A			100%		
Warehouse, Shops and Other		m2	4232	BRCL	\$40	\$169,270	100%	\$169,270	
Other			3447	PILES	\$2,000	\$6,894,000	100%	\$6,894,000	
OBJECTIVE: LANDFILL FOR DEMOLITION WASTE									
Place soil cover		m3		#N/A			100%		
Vegetate		ha		#N/A			100%		
Landfill disposal fee		tonne		#N/A			100%		
Load and haul building debris haul to onsite landfill		m3	4622	SC4H	\$23	\$107,233	100%	\$107,233	
Load and haul tank debris to onsite landfill		m3	976	SC4H	\$23	\$22,643	100%	\$22,643	
Load and haul Goose Island debris onsite landfill		m3	985	SC4H	\$23	\$22,854	100%	\$22,854	

Used High spec High cost excavate/load/short haul unit cost to landfill
 Used High spec High cost excavate/load/short haul unit cost to landfill
 Used High spec High cost excavate/load/short haul unit cost to landfill

Chemicals/Soil Area Name - All Land Owners

Note: The procedures, equipment and packaging for clean up and removal of chemicals or contaminated soils are highly dependent on the nature of the chemicals and their existing state of containment. Government guidelines should be consulted on an individual chemical basis. Any estimate made here should be considered very rough unless specific evaluations have been conducted.

ACTIVITY/MATERIAL	Notes	Units	Quantity	Cost Code	Unit Cost	Cost	% Land	Land Cost	Water Cost
HAZARDOUS MATERIALS AUDIT									
Phase 1 audit		each	7.50	HMS	\$100,000	\$750,000	100%	\$750,000	
Phase 2 audit		each		#N/A					
CONSOLIDATE HAZARDOUS MATERIALS FOR REMOVAL									
Waste oils		litre		#N/A					
Fuel - Type 1, eg diesel dregs		litre		#N/A					
Fuel - Type 1, eg gasoline dregs		litre		#N/A					
Waste batteries		kg		#N/A					
Assay & environmental lab reagents		tonnes	7.50	#N/A	\$12,000	\$90,000	100%	\$90,000	
Machine shop, paints, solvents etc		tonnes	7.50	#N/A	\$12,000	\$90,000	100%	\$90,000	
Contaminated soils - hydrocarbon		m3		#N/A					
Metal contam. soil at conc. load-out		m3		#N/A					
Glycol		litre		#N/A					
Nuclear sources		each		#N/A					
HAZARDOUS MATERIALS									
Transportation to disposal facility		allow		#N/A					
Disposal fees		allow		#N/A					
Other				#N/A					
CONTAMINATED SOILS									
Contam. soil investigation - technical		each		#N/A					
Contam. soil investigation - drilling & sampling		each		#N/A					
CONTAMINATED SOIL REMOVAL									
Remediate on site		m3		#N/A					
Env. investigation Phase I/II		each	216	CSEIL	\$25,000	\$5,406,250	100%	\$5,406,250	
Contaminated soils - hydrocarbon		m3		#N/A					
Metal contam. soil at conc. load-out		m3		#N/A					
Load, haul, dump or doze		m3	445774	SC4H	\$23	\$10,341,957	100%	\$10,341,957	
Reagents/stabilizing agent		m2		#N/A					
Contour reclaimed area		m3		#N/A					
Type 2, heavy fuel and oil		m3		#N/A					
Reclaim sump areas		ha	24	VEGS	\$42,125	\$990,270	100%	\$990,270	
Construct slurry wall for sumps		m2	16900	SUMPS	\$75	\$1,267,500	100%	\$1,267,500	
CONTAMINATED SOIL VERY LOW PERMEABILITY COVER									
Supply geomembrane, HDPE, ES3, GCL		m2		#N/A					
Upper and lower bedding layers		m3		#N/A					
Install geomembrane, HDPE, ES3, GCL		m2		#N/A					
Erosion protection layer		m3		#N/A					
Vegetate		m2		#N/A					
Install infiltration/seepage instrumentation		allow		#N/A					
Other				#N/A					
OTHER									
Occupational Health and Safety Department		years	2	OHSPS	\$100,000	\$200,000	100%	\$200,000	
Non-Hazardous materials removal		tonnes	8	NHMATS	\$3,500	\$26,250	100%	\$26,250	
Load, haul, dump or doze	Backfill	m3	109548	SC3H	\$14	\$1,555,578	100%	\$1,555,578	
					Total	\$20,717,805		\$20,717,805	
					% of Total			100	

Used High spec High cost excavate/load/short haul unit cost to landfill

Extended coverage from 1yr to duration of A&R implementation, estimated to be 2yrs.

Interim Care and Maintenance - All Land Owners

ACTIVITY/MATERIAL	Notes	Units	Quantity	Cost Code	Unit Cost	Cost	%Land	Land Cost	Water Cost	
INTERIM CARE & MAINTENANCE										
on-site caretaker		manmonths		#N/A						
extra personnel		manmonths		#N/A						
-electrician		manmonths		#N/A						
-mechanic		manmonths		#N/A						
annual fuel		litre		#N/A						
misc. supplies		allow	1	#N/A	\$500,000	\$500,000	60%	\$300,000	\$200,000	
pick-up truck		each	4	#N/A	\$24,000	\$96,000	60%	\$57,600	\$38,400	Higher rate allowacated
small dozer		allow	480	DOZERSH	\$260	\$124,800	60%	\$74,880	\$49,920	
small excavator		allow	480	GRADL	\$190	\$91,200	60%	\$54,720	\$36,480	
snow machine		allow	2	#N/A	\$10,000	\$20,000	60%	\$12,000	\$8,000	
communications		allow		#N/A						
SNP/AEMP water sampling & reporting		years		#N/A						
ICM monitoring		years	1	#N/A	\$589,232	\$589,232			\$589,232	See Monitoring Tab
geotechnical assessment		each		#N/A						
interim water treatment		years		#N/A						
Environmental coordinator		hours	2080	EnvcoL	\$74	\$154,253	60%	\$92,552	\$61,701	1 worker
Electrician		hours	2080	ElecL	\$74	\$153,920	60%	\$92,352	\$61,568	1 worker
Journeyman - various		hours	8320	JourL	\$72	\$597,293	60%	\$358,376	\$238,917	4 Journeymen
Security / first aid		hours	6240	safetyL	\$67	\$417,893	60%	\$250,736	\$167,157	3 Security guards
Administrative staff		hours	2080	adminL	\$58	\$120,411	60%	\$72,247	\$48,164	1 worker working
Construction		km	2.5	WRCH	\$11,500	\$28,750	60%	\$17,250	\$11,500	Winter road
other		each	1	#N/A	\$500,000	\$500,000	60%	\$300,000	\$200,000	Utilities and transportation allowance
				Annual Interim C&M Cost		\$3,393,752		\$1,682,712	\$1,711,040	
Number of years of ICM		years	2	Total Cost		\$6,787,503		\$3,365,423.52	\$3,422,079.68	
				% of Total				60.0%	40.0%	
Percentage Share of Liability:				Total Cost for: All Land Owners		\$6,787,503		\$3,365,424	\$3,422,080	

Table 10: RECLAIM Model Unit Costs

August 29, 2014

RECLAIM ver7.0 Output							
ITEM	Detail	COST CODE	UNITS	LOW \$	HIGH \$	SPECIFIED \$	COMMENTS
Accommodation							
		ACCM	manday	\$100	\$175		
Buildings - Decontaminate							
	Asbestos	BDA	m2	\$26	\$51		Low: removal of asbestos siding & flooring; High: removal of insulated pipes, friable asbestos
Buildings - Remove							
	areas are per floor of 3 m average height						
	Wood	BRW	m2	\$28	\$41		
	Concrete	BRC	m2	\$40	\$65		
	Steel - teardown	BRS1	m2	\$45	\$65		
	Steel - for salvage	BRS2	m2	\$67	\$100		
	Pile Removal	PILE	each			\$2,000	
Concrete work							
	Small pour	CSF	m3	\$427	\$640		Low: YK; High=1.5xLow
	Large pour	CLF	m3	\$354	\$530	\$2,130	Specified: concrete crown pillar
Contaminated Soils							
	Remediate on site	CSR	m3	\$47	\$146		
	Env. investigation Phase I/II	CSEI	each	\$25,000			Low: small, "clean" site
	Contaminated soils - hydrocarbon	CSH					
	Metal contam. soil at conc. load-out	CSM					
	Load, haul, dump or doze						
	Reagents/stabilizing agent						
	Contour reclaimed area						
	Type 2, heavy fuel and oil						
	Construct slurry wall for sumps	SUMP				\$75	
Dozing							
	doze rock piles	DR	m3	\$1	\$2		Low cost: doze crest off dump
	doze overburden/soil piles	DS	m3	\$1	\$4		High cost: push up to 300 m
Excavate Rock; Low Spec's and QA/QC							
	drill/blast/load/short haul	RB1	m3	\$11	\$17		Low:quarry operations for bulk fill
	drill/blast/load/long haul	RB2	m3	\$12	\$18		
	RB1 + spread and compact	RB3	m3	\$12	\$18		
	RB2 + spread and compact	RB4	m3	\$13	\$31		
	Specified activity	RBS	m3				

Comments:

No asbestos on site

Site specific - weighted average unit price developed by AMEC

Line item inserted: Site specific unit price developed by AMEC

Table 10: RECLAIM Model Unit Costs

August 29, 2014

RECLAIM ver7.0 Output							
ITEM	Detail	COST CODE	UNITS	LOW \$	HIGH \$	SPECIFIED \$	COMMENTS
PCB Removal							
	Remove from site	PCBR	litre	\$40	\$47		Low: shipping, handling & disposal from Yellowknife
Pipes, small (<6in dia.)							
	remove/dispose on site	PSR	m	\$1	\$24		Low: remove/dispose on site; High: remove/re-use
	supply	PSS	m	\$6	\$11		Low:supply; High:supply and ship
	install	PSI	m	\$25			
	cut and cap pipelines	CNC	each			\$1,200	
Pipes, large (>6in dia.)							
	remove/dispose on site	PLR	m	\$22	\$72		Low: remove/dispose on site; High: remove/re-use
	supply	PLS	m	\$129	\$143		Low:supply; High:supply and ship
	install	PLI	m	\$50			
Power Lines							
	remove/dispose on site	POWR	each	\$26			
Process Chemicals							
	Remove from site	PCR	kg	\$0.45	\$2.50		
Pumps							
	Pump capital cost	PCR	each	\$195,000			
	Pump shipping	PS	each	\$2,500			
	Pump maintenance	PM	each	\$20,000			
Pump sand BackFill							
		BF	m3	\$85	\$300		
Scarify - road/mine site							
		SCFY	ha	\$4,300	\$6,030	\$2,150	
Shaft, Raise & Portal Closures							
	Shaft & Raises	SR	m2	\$645	\$2,132		Low:pre-cast concrete slabs, little site prep. Area=shaft+>1m all around
	Portals	POR	m3	\$19	\$250	\$1,200	Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Site Inspection Report							
		RPT	each	\$10,000	\$20,000		
SpillWay - Clear							
		CSW	each	\$3,000	\$7,000		
Survey/Instrumentation							
		SI	each	\$1,800	\$3,600		2 person crew
Treatment Plant - Construct							
	Small (< 1000 m3/d)	BTPS	lump sum	\$1,218,600	\$2,437,300		
	Large (> 1000 m3/d)	BTPL	lump sum	\$2,437,300	\$42,650,200		
Treatment Plant - Operate							
		OTP	m3	\$0	\$2		

Comments:

Site specific - unit price developed by AMEC

Table 10: RECLAIM Model Unit Costs

August 29, 2014

RECLAIM ver7.0 Output							
ITEM	Detail	COST CODE	UNITS	LOW \$	HIGH \$	SPECIFIED \$	COMMENTS
Vegetation							
	Hydroseed, Flat	VHF	ha	\$4,000			
	Hydroseed, Sloped	VHS	ha	\$6,000			
	veg. Blanket/erosion mat	VB	ha				
	Tree planting	VT	ha				
	Wetland species	VW	ha	\$50,000		\$48	Specified= /m3, Wetland Growth Media Substrate mixed and installed (sand-local, biochar and fertilizer, woodchips-local)
	All in Vegetation	VEG	ha			\$42,125	
Water Sampling/Analysis/Reporting							
		WS	each	\$7,000	\$10,000		
Water Treatment Chemicals							
	ferric sulphate	ferric	kg	\$1.19			
	ferrous sulphate	ferrous	kg	\$1.32			
	lime	lime	kg	\$0.51			
	hydrogen peroxide, 35%	hperox	kg	\$1.50			
	Sodium Metabisulfate	Nametab	kg	\$1.18			
	Caustic soda, 50%	caustic	kg	\$0.74			
	Sulfuric acid, 93%	sulfuric	kg	\$0.31			
	flocculant	flocc	kg	\$6.00			
	copper sulphate	copper	kg				
	shipping	shipping	kg	\$0.20			
Winter Road							
	Construction	WRC	km	\$2,000	\$11,500		
	Usage	WRU	kmtonne	\$0.29			
Well Abandonment							
	All wells - Drilled / Cased	WL	m			\$12,500	-
	Sweet Well - Completed / Active / Inactive	SWWL	m			\$56,600	0 - 1000 m
			m			\$71,200	1000 - 2000 m
			m			\$88,000	2000 - 3000 m
			m			\$104,900	>3000 m
	Sour Well (H2S > 1%) - Completed / Active / Inactive	SRWL	m			\$74,700	0 - 1000 m
			m			\$94,400	1000 - 2000 m
			m			\$116,500	2000 - 3000 m
			m			\$138,600	>3000 m
	Source Water Well	WWL	m			\$5,000	0 - 150 m
			m			\$10,000	151 - 300 m
			m			\$30,000	>300 m
	Vent Flow / Gas Migration	VFGM				\$87,200	-

Comments:

Site specific - unit price developed by AMEC using AER Directive 11

Required from islands to mainland for 5 years.



Table 10: RECLAIM Model Unit Costs

August 29, 2014

RECLAIM ver7.0 Output							
ITEM	Detail	COST CODE	UNITS	LOW \$	HIGH \$	SPECIFIED \$	COMMENTS
	Additional Completion Zones	ACZ				\$0 -	

Comments:

Table 11: Statistics Canada Price Index

August 29, 2014

Table 327-0042 Machinery and equipment price indexes (MEPI), by industry of purchase based on the North American Industry Classification System (NAICS), quarterly (index, 1997=100)(1,2,3,4,5)

Survey or program details:

Support activities for mining and oil and gas extraction. Domestic.

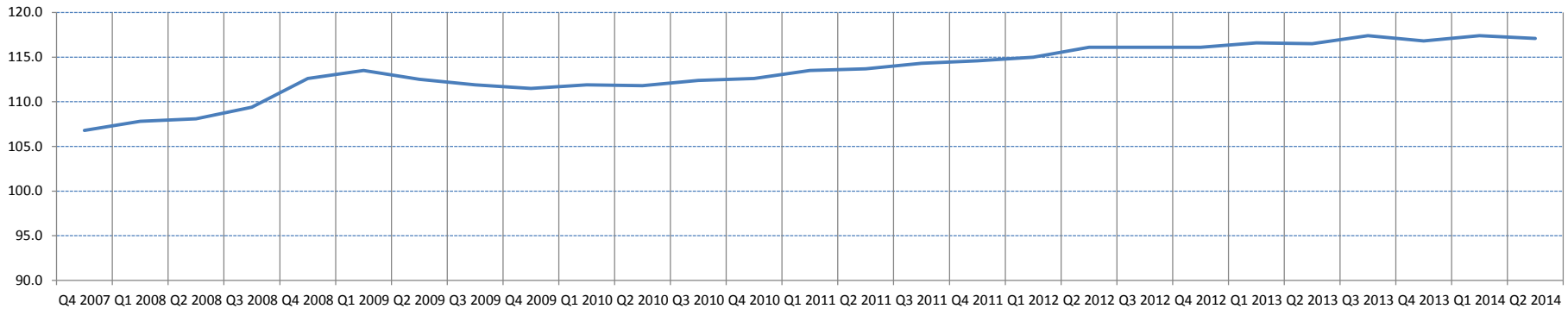
Geography:

Canada

Quarter and Year	Q4 2007	Q1 2008	Q2 2008	Q3 2008	Q4 2008	Q1 2009	Q2 2009	Q3 2009	Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011	Q3 2011	Q4 2011	Q1 2012	Q2 2012	Q3 2012	Q4 2012	Q1 2013	Q2 2013	Q3 2013	Q4 2013	Q1 2014	Q2 2014
Price Index	106.8	107.8	108.1	109.4	112.6	113.5	112.5	111.9	111.5	111.9	111.8	112.4	112.6	113.5	113.7	114.3	114.6	115.0	116.1	116.1	116.1	116.6	116.5	117.4	116.8	117.4	117.1
Percentage change from Q2 2013 to Q2 2014																											
0.52																											

Source:

Source: Statistics Canada. Statistics Canada. Table 327-0042 - Machinery and equipment price indexes (MEPI), by industry of purchase based on the North American Industry Classification System (NAICS), quarterly (index, 1997=100) (accessed: February 06, 2014).



Footnotes:

- 1 The classification structure is based on the 1997 North American Industry Classification System (NAICS).
- 2 These indexes measure price change for annual gross additions to capital investment for machinery and equipment by industry of purchase.
- 3 The second quarter 2013 issue of Capital Expenditure Price Statistics, Vol. 29, no. 2 (62-007-X), is available from the Browse by key resource module of our website under Publications. This is the last edition of the publication. In the future, all information currently in the publication will be available free of charge on our website.
- 4 Typically, the most recent four quarters are subject to revisions. However, the first quarter 2008 data was revised with the release of the second quarter of 2009 data.
- 5 The prices are collected monthly and the quarterly indexes are the simple average of the three months.

Phase	Year		Regulatory Costs	SNP and AEMP	Geotechnical Inspections	Vegetation Monitoring	Air Quality	Wildlife Effects Monitoring	Total	Discounted Value
ICM	1	1	\$ 150,000	\$ 406,732	\$ 20,000			\$ 25,000	\$ 601,732	\$ 601,732
ICM	2	2	\$ 150,000	\$ 406,732	\$ 20,000				\$ 576,732	\$ 576,732
Reclamation	3	1	\$ 150,000	\$ 406,732	\$ 20,000	\$ -	\$ 20,000	\$ 25,000	\$ 621,732	\$ 621,732
Reclamation	4	2	\$ 150,000	\$ 406,732	\$ 20,000	\$ 20,000	\$ 20,000		\$ 616,732	\$ 616,732
Post-Reclamation	5	1	\$ 150,000	\$ 406,732	\$ 20,000	\$ 20,000	\$ 10,000	\$ 25,000	\$ 621,732	\$ 621,732
Post-Reclamation	6	2	\$ 75,000	\$ 406,732	\$ 10,000	\$ 20,000			\$ 511,732	\$ 511,732
Post-Reclamation	7	3	\$ 75,000	\$ 406,732	\$ 10,000	\$ 10,000			\$ 501,732	\$ 501,732
Post-Reclamation	8	4		\$ 406,732					\$ 406,732	\$ 406,732
Post-Reclamation	9	5		\$ 406,732					\$ 406,732	\$ 406,732
Post-Reclamation	10	6	\$ 75,000	\$ 406,732	\$ 10,000	\$ 20,000	\$ 10,000		\$ 521,732	\$ 521,732
Post-Reclamation	11	7		\$ 406,732					\$ 406,732	\$ 406,732
Post-Reclamation	12	8		\$ 406,732					\$ 406,732	\$ 406,732
Post-Reclamation	13	9		\$ 406,732					\$ 406,732	\$ 406,732
Post-Reclamation	14	10		\$ 406,732					\$ 406,732	\$ 406,732
Post-Reclamation	15	11	\$ 30,000	\$ 406,732	\$ 10,000	\$ 10,000	\$ 10,000		\$ 466,732	\$ 466,732
Post-Reclamation	16	12		\$ 406,732					\$ 406,732	\$ 406,732
Post-Reclamation	17	13		\$ 406,732					\$ 406,732	\$ 406,732
Post-Reclamation	18	14		\$ 406,732					\$ 406,732	\$ 406,732
Post-Reclamation	19	15		\$ 406,732					\$ 406,732	\$ 406,732
Post-Reclamation	20	16	\$ 30,000	\$ 203,365	\$ 10,000	\$ 10,000	\$ 10,000		\$ 263,365	\$ 145,819
Post-Reclamation	21	17		\$ 203,365					\$ 203,365	\$ 109,319
Post-Reclamation	22	18		\$ 203,365					\$ 203,365	\$ 106,135
Post-Reclamation	23	19		\$ 203,365					\$ 203,365	\$ 103,043
Post-Reclamation	24	20		\$ 203,365					\$ 203,365	\$ 100,042
Post-Reclamation	25	21	\$ 30,000	\$ 203,365	\$ 10,000	\$ 10,000	\$ 10,000		\$ 263,365	\$ 125,785
Post-Reclamation	26	22		\$ 203,365					\$ 203,365	\$ 94,299
Post-Reclamation	27	23		\$ 203,365					\$ 203,365	\$ 91,553
Post-Reclamation	28	24		\$ 203,365					\$ 203,365	\$ 88,886
Post-Reclamation	29	25	\$ 30,000	\$ 203,365	\$ 10,000	\$ 10,000	\$ 10,000		\$ 263,365	\$ 111,758
Total			\$ 1,095,000	\$ 9,761,558	\$ 170,000	\$ 120,000	\$ 50,000	\$ 125,000	\$ 11,321,558	\$ 10,184,546

Discount rate 0.03 %
 ICM Monitoring Cost \$ 1,178,464 ICM Tab
 Post-Closure Reclamation Monitoring Cost \$ 9,006,082 Post Closure
 Landfill O&M \$ 1,093,233 Post Closure
 Groundwater Remediation O&M \$ 9,045,889 Post Closure

IOL's Groundwater Characterization and Monitoring
 Geographic Area Years 1 to 15 C Years 16 to 2
 Mainland East \$ 84,712 \$ 42,356
 Mainland Central \$ 96,825 \$ 48,412
 Mainland West \$ 52,398 \$ 26,199
 Mainland Sumps \$ 52,590 \$ 26,295
 Bear and Frenchy's Islands \$ 93,835 \$ 46,917
 Goose Islands \$ 26,372 \$ 13,186
Totals \$ 406,732 \$ 203,365

Phase	Year		Landfill O&M	Discounted Value	Groundwater Remediation	Discounted Value
ICM	1	1	\$ -	\$ -	0	\$ -
ICM	2	2	\$ -	\$ -	0	\$ -
Reclamation	3	1	\$ 50,000	\$ 50,000	\$ 413,722	\$ 413,722
Reclamation	4	2	\$ 50,000	\$ 50,000	\$ 413,722	\$ 413,722
Post-Reclamation	5	1	\$ 50,000	\$ 50,000	\$ 413,722	\$ 413,722
Post-Reclamation	6	2	\$ 50,000	\$ 50,000	\$ 413,722	\$ 413,722
Post-Reclamation	7	3	\$ 50,000	\$ 50,000	\$ 413,722	\$ 413,722
Post-Reclamation	8	4	\$ 50,000	\$ 50,000	\$ 413,722	\$ 413,722
Post-Reclamation	9	5	\$ 50,000	\$ 50,000	\$ 413,722	\$ 413,722
Post-Reclamation	10	6	\$ 50,000	\$ 50,000	\$ 413,722	\$ 413,722
Post-Reclamation	11	7	\$ 50,000	\$ 50,000	\$ 413,722	\$ 413,722
Post-Reclamation	12	8	\$ 50,000	\$ 50,000	\$ 413,722	\$ 413,722
Post-Reclamation	13	9	\$ 50,000	\$ 50,000	\$ 413,722	\$ 413,722
Post-Reclamation	14	10	\$ 50,000	\$ 50,000	\$ 413,722	\$ 413,722
Post-Reclamation	15	11	\$ 50,000	\$ 50,000	\$ 413,722	\$ 413,722
Post-Reclamation	16	12	\$ 50,000	\$ 50,000	\$ 413,722	\$ 413,722
Post-Reclamation	17	13	\$ 50,000	\$ 50,000	\$ 413,722	\$ 413,722
Post-Reclamation	18	14	\$ 50,000	\$ 50,000	\$ 413,722	\$ 413,722
Post-Reclamation	19	15	\$ 50,000	\$ 50,000	\$ 413,722	\$ 413,722
Post-Reclamation	20	16	\$ 50,000	\$ 27,684	\$ 413,722	\$ 229,068
Post-Reclamation	21	17	\$ 50,000	\$ 26,877	\$ 413,722	\$ 222,396
Post-Reclamation	22	18	\$ 50,000	\$ 26,095	\$ 413,722	\$ 215,918
Post-Reclamation	23	19	\$ 50,000	\$ 25,335	\$ 413,722	\$ 209,630
Post-Reclamation	24	20	\$ 50,000	\$ 24,597	\$ 413,722	\$ 203,524
Post-Reclamation	25	21	\$ 50,000	\$ 23,880	\$ 413,722	\$ 197,596
Post-Reclamation	26	22	\$ 50,000	\$ 23,185	\$ 413,722	\$ 191,841
Post-Reclamation	27	23	\$ 50,000	\$ 22,509	\$ 413,722	\$ 186,253
Post-Reclamation	28	24	\$ 50,000	\$ 21,854	\$ 413,722	\$ 180,828
Post-Reclamation	29	25	\$ 50,000	\$ 21,217	\$ 413,722	\$ 175,561
Total			\$ 1,350,000	\$ 1,093,233	\$ 11,170,494	\$ 9,045,889

IOL's Groundwater Remediation
 Mainland East \$ 133,749
 Mainland Tankfarm Area \$ 133,749
 Mainland Central \$ 146,224
Totals \$ 413,722