



Canadian Process Technologies Inc.'s engineers have become world leaders in the various phases of design, installation and operation of flotation column cells. Our experience to date totals over 400 column cells worldwide, some of which are listed below:

Client	Installation	Date	Application - Duty
PCS Piccadilly - Canada	4 - 4.27 m Ø x 8.53 m h 4 - 3.66 m Ø x 8.53 m h 4 - 3.05 m Ø x 6.1 m h 4 - 3.66 m Ø x 8.53 m h 4 - 3.05 m Ø x 6.1 m h	2008	Potash – Cleaner Potash – Re grind Potash – Re grind Cleaner Potash– Rgher/Scvgr Potash - Cleaner
Saunders - USA	1 – 4.57 m Ø x 7.62 m h	2008	Coal
Penoles - Mexico	1 – 2.44 m Ø x 9.14 m h 1 – 3.05 m Ø x 9.14 m h	2008	Lead – Cleaner Zinc - Cleaner
Oyu Tolgoi - Mongolia	4 -5.5 m Ø x 16.0 m h	2008	Copper - Cleaner
Cajamarquilla - Peru	1 – 1.83 m Ø x 8.0 m h 1 – 2.44 m Ø x 8.0 m h 1 – 2.44 m Ø x 8.0 m h 1 – 1.83 m Ø x 8.0 m h	2008	Lead – Cleaner Lead – Rougher Silver – Rougher Silver - Cleaner
Moatize Coal - Mozambique	6 – 4.88 m Ø x 17.3 m h 6 – 4.88 m Ø x 13.7 m h	2008	Coal – Rougher Coal - Scavenger
Ohio Valley Coal - USA	1 – 3.66 m Ø x 6.1 m h	2008	Coal
Yuntianhua – China	4 – 0.91 m Ø x 6.0 m h	2008	Pilot – Rougher/Cleaner
Intrepid Potash - USA	1 – 3.05 m Ø x 8.53 m h	2008	Potash - Cleaner
Capstone Mining - Mexico	1 – 3.05 m Ø x 7.62 m h 1 - 2.44 m Ø x 7.62 m h	2008	Copper – Cleaner Zinc - Cleaner
Intrepid Potash - USA	1 – 3.05 m Ø x 10.0 m h	2008	Potash – Cleaner
PCS Cory - Canada	1 – 3.05 m Ø x 8.53 m h	2008	Potash - Scavenger
PCS Cory - Canada	1 – 3.05 m Ø x 8.53 m h	2008	Potash – Cleaner
Penn West Energy – Canada	1 – 1.52 m Ø x 7.62 m h	2007	VOSCell – Oil / Water
Auriferas Brisas – Venezuela	2 – 3.05 m Ø x 9.0 m h	2007	Copper Cleaner
Lucky Friday – USA	2 – 1.8 m Ø x 9.1 m h	2007	Zinc Cleaner



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Kennecott Utah Copper – USA	4 – 4.3 m Ø x 9.6 m h	2007	Copper Cleaner
	4 – 4.3 m Ø x 9.6 m h		Copper Scavenger
Duck Pond – Canada	2 – 1.2 m Ø x 10.0 m h	2006	Copper Cleaner
Donstal – Ukraine	8 – 4.3 m Ø x 8.0 m h	2006	Coal
Oyu Tolgoi – Mongolia	4 – 4.3 m Ø x 14.0 m h	2006	Copper Cleaner
Dashan Copper – China	7 – 4.3 m Ø x 12.0 m h	2006	Copper Cleaner
Suncor Energy – Canada	16 – 4.88 m Ø x 16.8 m h	2006	Bitumen
Spurlock Coal – USA	1 – 4.27 m Ø x 7.3 m h	2006	Coal
Perry County Coal – USA	2 – 4.57 m Ø x 8.5 m h	2006	Coal
Murray Energy – Star Ridge – USA	1 – 4.57 m Ø x 9.8 m h	2006	Coal
Murray Energy – Productivity – USA	3 – 4.27 m Ø x 8.5 m h	2006	Coal
Pinnacle Processing – USA	2 – 4.27 m Ø x 8.5 m h	2006	Coal
Agnico Eagle – Canada	1 - 2.4 m Ø x 9.0 m h	2006	Copper Cleaner
Minera Tamaya – Chile	1 – 1.8 m Ø x 10.0 m h	2006	Copper Cleaner
MBR Itabarita – Brazil	6 – 4.3 m Ø x 14.0 m h	2006	Iron Ore Cleaner
	4 – 4.3 m Ø x 14.0 m h		Iron Ore Recleaner
	2 – 4.3 m Ø x 10.0 m h		Iron Ore Scavenger
De'erni Copper Mine – China	2 – 1.83 m Ø x 9.0 m h	2006	Copper
Clintwood Elkhorn No. 2 – USA	1 – 4.57 m Ø x 8.5 m h	2006	Coal
Shenlongjia Mineral Co., Ltd. – China	1 – 2.44 m Ø x 10.0 m h	2006	Phosphate
Samarco – Brazil	2 - 4.5 m Ø x 14.5 m h	2006	Iron Ore
	2 - 4.5 m Ø x 10 m h		Iron Ore
Bunge – Brazil	1 - 5.0 m Ø x 14 m h	2006	Phosphate
	1 - 5.0 m Ø x 14 m h		Phosphate
MBR – Brazil	1 - 3.66 m Ø x 10 m h	2006	Iron Ore
Nossa Senhora do Carmo – Brazil	1 - 2.44 m Ø x 10 m h	2006	Fluorite
Batu Hijau – Indonesia	2 – 4.27 m Ø x 14.0 m h	2005	Copper Cleaner
Mikhailovsky GOK – Russia	4 - 4.3 m Ø x 12m h	2005	Iron Ore Rougher
	2 - 4.3 m Ø x 12m h		Iron Ore Cleaner
	2 - 4.3 m Ø x 10m h		Iron Ore Scavenger



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Batu Hijau – Indonesia	2 – 4.27 m Ø x 14 m h	2005	Copper
Aur Resources Duck Pond – CAN	2 – 1.22 m Ø x 10 m h	2005	Copper/Zinc
Kensington Gold (Coeur AK) - USA	1 – 1.22 m Ø x 6.9 m h	2005	Pyrite
Mach Mining – USA	4 – 4.57 m Ø x 8.5 m h	2005	Coal
Sapphire Coal – USA	1 – 4.57 m Ø x 8.5 m h	2005	Coal
Hecla – Lucky Friday – USA	1 – 1.83 m Ø x 10.1 m h 1 – 1.22 m Ø x 10.1 m h 1 – 1.07 m Ø x 9.1 m h 1 – 0.76 m Ø x 9.1 m h	2005	Pb 1st Cleaner Pb 2nd Cleaner Zn 1st Cleaner Zn 2nd Cleaner
San Cristobal – Bolivia	1 – 3.66 m Ø x 9.8 m h 2 – 3.66 m Ø x 9.8 m h	2005	Pb 4th Cleaner Zn 4th Cleaner
Severnaya Coal – Russia	6 – 4.27 m Ø x 8.0 m h	2005	Coal
Luscar Coal – Canada	2 – 4.27 m Ø x 8.5 m h	2005	Coal
Coeur Alaska – Kensington – USA	1 – 1.22 m Ø x 6.8 m h	2005	Au / Py Cleaner
Jupiter Coal – USA	2 – 3.66 m Ø x 8.5 m h	2005	Coal
Sulplata – Brazil	1 – 1.83 m Ø x 10.0 m h 1 – 1.83 m Ø x 10.0 m h 1 – 1.83 m Ø x 10.0 m h	2004	Fe Oxide Mica Silica
Sonic Environmental – Canada	2 – 0.91 m Ø x 6.0 m h	2004	Kerosene
Arch – Cardinal (Eriez) – USA	3 – 4.57 m Ø x 8.0 m h	2004	Coal
Arch – Lone Mountain – USA	1 – 4.27 m Ø x 7.3 m h	2004	Coal
Weatherbee Coal (Eriez) – USA	1 – 4.27 m Ø x 8.5 m h	2004	Coal
Arch – Pardee (Eriez) – USA	2 – 4.27 m Ø x 7.3 m h	2004	Coal
Blackwater (Eriez) – Australia	6 – 4.88 m Ø x 9.2 m h	2004	CoalPro
La Cenizas – Chile	1 – 2.4 m Ø x 10 m h	2003	Copper
Cia Fresnillo SA de C.V. – México	1 – 3.35 m Ø x 9.75 m h	2003	Lead / Silver
Cuajóne (SPPC) – Perú	2 – 3.05 m Ø x 13.0 m h	2003	Copper
Sanqiang Taibaoshan – China	1 – 0.91 m Ø x 12.0 m h 1 – 0.61 m Ø x 12.0 m h	2003 2003	Molybdenum Molybdenum



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Cia Minera Santa Luisa – Perú	1 – 1.83 m Ø x 10.0 m h	2003	Lead Cleaner
Erdenet – Mongolia	1 – 1.20 m Ø x 10 m h	2003	Molybdenum
	1 – 1.00 m Ø x 10 m h	2003	Molybdenum
	1 – 0.70 m Ø x 10 m h	2003	Molybdenum
Cuajón (SPPC) – Peru	2 – 3.05 m Ø x 13.5 m h	2003	Copper Cleaner
Tabas Coal (Ecomin) – Iran	6 – 4.30 m Ø x 8.0 m h	2003	Coal
Peñoles Fresnillos – México	1 – 3.35 m Ø x 10.0 m h	2003	Lead / Silver
La Cenizas – Chile	1 – 2.4 m Ø x 11.0 m h	2003	Copper
CMM Monte Cristo – Brazil	1 – 1.83 m Ø x 9.0 m h	2002	Copper
	1 – 1.83 m Ø x 9.0 m h	2002	Zinc
	1 – 1.83 m Ø x 9.0 m h	2002	Bulk
CMM Morro Agudo – Brazil	1 – 4.0 m Ø x 13.0 m h	2002	Zinc Rougher
	1 – 3.35 m Ø x 10.0 m h	2002	Zinc Cleaner
	1 – 3.05 m Ø x 13.0 m h	2002	Lead Rougher
	1 – 1.83 m Ø x 10.0 m h	2002	Lead Cleaner
Mineração Sossego – Brazil	6 – 4.27 m Ø x 14.0 m h	2002	Copper Cleaner
Çayeli Bakir – Turkey	2 – 2.44 m Ø x 12.0 m h	2002	Zinc cleaner
Coal Clean Corporation – USA	3 – 4.57 m Ø x 8.5 m h	2002	Coal
Toquepala (SPCC) – Perú	2 – 2.44 m Ø x 13.3 m h	2002	Copper
Massey Coal Liberty – USA	3 – 4.27 m Ø x 7.3 m h	2001	Coal
Dexing Copper – China	1 – 2.44 m Ø x 10.0 m h	2001	Copper Cleaner
Las Cenizas – Chile	1 – 1.8 m Ø x 11.0 m h	2001	Zinc
American Energy – USA	2 – 4.27 m Ø x 7.3 m h	2001	Coal
Norilsk Nickel – Russia	1 – 2.0 m Ø (instruments)	2001	Nickel
Apatit – Russia	6 – 4.5 m Ø x 8.0 m h	2001	Phosphate Cleaner
Sigmon Coal – USA	2 – 4.27 m Ø x 9.1 m h	2001	Coal
Toquepala (SPCC) – Perú	3 – 2.44 m Ø x 13.3 m h	2001	Copper
Fosfertil – Brazil	1 – 4.3 m Ø x 14.0 m h	2000	Ultrafines – Rougher
	1 – 3.66 m Ø x 14.0 m h	2000	Ultrafines – Cleaner
Santa Luisa S.A. – Perú	1 – 3.0 m Ø x 12.0 m h	2000	Zinc Cleaner
Minera Bismark – México	1 – 2.13 m Ø x 12.0 m h	2000	Zinc cleaner



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Philex Mining – Philippines	1 – 3.05 m Ø x 12.0 m h	2000	Copper Cleaner
Massey Power Mountain – USA	2 – 3.96 m Ø x 7.3 m h	2000	Coal
Clintwood Elkhorn – USA	2 – 3.05 m Ø x 8.5 m h	2000	Coal
Cominco Alaska Red Dog – USA	2 – 3.66 m Ø x 14.6 m h	2000	Zinc Cleaner
	2 – 3.66 m Ø x 14.6 m h	2000	Zinc Retreat
Niobec Mine – Québec	2 – 4 m Ø x 14.5 m h	1999	Niobium
Peñoles Fco Madero – México	2 – 2.44 m Ø x 10.4 m h	1999	Lead Cleaner
	4 – 3.35 m Ø x 10.4 m h	1999	Zinc Cleaner
MBR Pico Project – Brazil	1 – 3.66m Ø x 10m	1999	Iron Ore Scavenger
MBR Tamadua Project – Brazil	1 – 3.66 m Ø x 14.0 m h	1999	Iron Ore Rougher
	1 – 3.66 m Ø x 14.0 m h	1999	Iron Ore Cleaner
	1 – 4.00 m Ø x 10.0 m h	1999	Iron Ore Scavenger
Coastal Coal Kingwood – USA	5 – 4.27 m Ø x 8.5 m h	1999	Coal
Buenaventura – Perú	1 – 1.50 m Ø x 11.0 m h	1999	Pb / Ag Cleaner
C.W.F. Italia – Sardinia	2 – 3.66 m Ø x 9.0 m h	1999	Coal
Gebrüder Dorfner – Germany	1 – 2.74 m Ø	1998	Kaolin Cleaner
Chevron Timbalier – USA	1 – 0.76 m Ø x 4.27 m h	1997	VOSCell – Oil / Water
Buenaventura – Perú	1 – 1.6 m Ø x 12.0 m h	1997	Lead / Silver Cleaner
Lomas Bayas – Chile	1 – 2.5 m Ø x 8.0 m h	1997	VOSCell – Organic
Radomiro Tomic – Chile	1 – 3.66 m Ø x 8.0 m h	1997	VOSCell – Organic
Randgold Mali – Mali	6 – 3.05 m Ø x 8.0 m h	1997	Gold Rgrh & Scav
Kvaerner Hymac – France	10 – 4.5 m Ø	1997	Paper De-Inking
Omya GmbH – Austria	1 – 150 mm Ø x 6.1 m h	1997	Test Column
Chevron Vermilion – USA	1 – 1.37 m Ø	1997	VOSCell – Oil / Water
	1 – 0.76 m Ø	1997	VOSCell – Oil / Water
Chevron Cabinda – Angola	2 – 2.43 m Ø	1997	VOSCell – Oil / Water
Chevron Garden Banks – USA	1 – 1.67 m Ø	1997	VOSCell – Oil / Water
Chevron Green Canyon – USA	1 – 2.44 m Ø	1997	VOSCell – Oil / Water



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Radomiro Tomic – Chile	2 – 3.66 m Ø x 8.0 m h	1997	VOSCell – Organic
BHP Cannington – Australia	2 – 4.00 m Ø x 13.0 m h	1997	Lead Recleaner
	2 – 3.66 m Ø x 13.0 m h	1997	Lead Final Cleaner
	2 – 4.00 m Ø x 13.0 m h	1997	Zinc Recleaner
	2 – 3.05 m Ø x 13.0 m h	1997	Zinc Final Cleaner
Chevron Vermilion – USA	1 – 1.37 m Ø x 5.8 m h	1996	VOSCell – Oil / Water
	1 – 0.76 m Ø x 7.27 m h	1996	VOSCell – Oil / Water
Mount Polley – Canada	6 – 3.66 m Ø x 11.3 m h	1996	Copper Cleaners
Cominco Alaska Red Dog – USA	2 – 3.66 m Ø x 17.1 m h	1996	Zinc Cleaners
Samitri – Brazil	1 – 2.44 m Ø x 12.0 m h	1996	Iron Ore
Chevron Abiteye – Nigeria	1 – 1.52 m Ø	1996	VOSCell – Oil / Water
Andacollo Copper – Chile	1 – 1.52 m Ø x 8.25 m h	1996	VOSCell – Organic
Samarco Mineração – Brazil	3 – 3.0 m x 6.0 m x 12.0 m h	1996	Iron Ore
Cominco Alaska Red Dog – USA	2 – 3.66 m Ø x 17.1 m h	1995	Zinc Cleaner
	1 – 4.11 m Ø x 15.0 m h	1995	Lead Cleaner
Chevron Westbay – USA	1 – 3.66 m Ø	1995	VOSCell – Oil / Water
Hartley Platinum – Zimbabwe	2 - 1.22 m Ø	1995	Platinum
Samarco Mineracao S.A. – Brazil	2 – 3.0 m x 4.0 m x 12.0 m h	1995	Silica Flotation
	1 – 3.0 m x 4.0 m x 12.0 m h	1995	Silica Flotation
	1 – 3.0 m x 4.0 m x 12.0 m h	1995	Silica Flotation
Goiasfertil – Brazil	2 – 3.0 m x 6.0 m	1995	Phosphate Fines
	1 – 3.0 m x 5.0 m	1995	Phosphate Fines
	1 – 3.0 m x 5.0 m	1995	Phosphate Ultrafines
	1 – 3.0 m x 4.5 m	1995	Phosphate Ultrafines
Nchanga (ZCCM) – Zambia	6 – 4.0 m Ø	1995	Copper Cleaner
	2 – 2.5 m Ø	1995	Copper Cleaner
Santa Elina – Brazil	1 – 1.22 m Ø	1994	Gold
Conceição (CVRD) – Brazil	9 – 5.0 m x 3.0 m	1994	Iron Ore
Samitri – Brazil	2 – 2.44 m Ø	1994	Iron Ore
UG2 - South Africa	4 – 1.60 m Ø	1994	Platinum



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Gencor MF2 - South Africa	2 – 0.91 m Ø	1994	Platinum
Zaldivar – Chile	4 – 2.0 m Ø x 8.0 m	1994	VOSCell – Organic
McCraes Gold - New Zealand	2 - 4.4 m Ø	1994	Gold
Mount Keith (WMC) – Australia	2 – 5.0 m x 4.0 m x 14.0 m	1994	Nickel
Minera Del Norte – México	2 – 3.66 m Ø x 12.0 m h	1994	Iron Ore
Minera Rayrock – Chile	2 – 1.22 m Ø x 7.0 m h	1994	Organic Recovery
Centromin Cobriza – Perú	2 – 3.05 m Ø x 10.0 m h	1994	Copper Flotation
Centromin Paragsha – Perú	2 – 2.4 m Ø x 13.0 m h	1993	Zinc Cleaner
Cerro Colorado – Chile	2 – 1.1 m Ø x 7.0 m h	1993	VOSCell – Organic
Quebrada Blanca S.A. – Chile	2 – 2.44 m Ø x 7.0 m h	1993	VOSCell – Organic
Kudremukh Iron Ore – India	1 – 4.0 m Ø x 12.0 m h	1993	Iron Ore
CVRD – Brazil	3 – 4.0 m Ø x 15.0 m h	1993	Iron Ore
Minera Escondida – Chile	1 – 4.0 m x 4.0 m x 13.9 m h	1993	Copper Cleaner
	1 – 4.0 m x 4.0 m x 13.9 m h	1993	Copper Scavenger
Cominco Sullivan – Canada	1 – 3.96 m Ø x 9.8 m h	1993	Lead Cleaner
CSN Arafertil S.A. – Brazil	3 – 4.0 m Ø x 10.0 m h	1993	Iron Rougher
	1 – 4.0 m Ø x 10.0 m h	1993	Iron Cleaner
	2 – 3.0 m x 4.5 m x 13.0 m h	1993	Phosphate
	4 – 3.0 m x 4.5 m x 13.0 m h	1993	Phosphate
Fosfertil Tapira – Brazil	1 – 4.0 m x 5.0 m x 14.5 m h	1993	Phosphate
MBR – Brazil	2 – 3.66 m Ø x 14.0 m h	1993	Iron Ore
Nchanga (ZCCM) – Zambia	2 – 4.6 m Ø x 15.0 m h	1993	Copper Cleaner
	1 – 2.44 m Ø x 15.0 m h	1993	Copper Cleaner
Nchanga (ZCCM) – Zambia	2 – 3.0 m Ø x 8.0 m h	1993	VOSCell – Organic
Nkana (ZCCM) – Zambia	3 – 2.3 m Ø x 13.0 m h	1992	Copper Cleaner
Konkola (ZCCM) – Zambia	2 – 2.5 m Ø x 13.0 m h	1992	Copper Cleaner
Minera Maria – México	2 – 0.86 m Ø	1992	Moly Rougher
	2 – 0.46 m Ø	1992	Moly Cleaner
USS Minntac – USA	1 – 1.52 m Ø	1992	Iron Ore - Hematite
Cobar Mines Pty – Australia	1 – 2.13 m Ø	1992	Copper Cleaner



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Nicon Woodcutters – Australia	2 – 2.13 m Ø	1992	Zinc Rougher / Cleaner
	1 – 2.74 m Ø	1992	Lead Cleaner
Foskor – South Africa	1 – 0.66 m Ø	1992	Copper Cleaner
Shell – Pering Mine – South Africa	1 – 1.83 m Ø x 10.0 m h	1992	Zinc Cleaner
JCI Potgietersrust – South Africa	2 – 1.4 m Ø x 14.5 m h	1992	Platinum Cleaner
Chevron Vernal – USA	1 – 0.76 m Ø x 9.1 m h	1992	VOSCell – Oil / Water
Peñoles Bismark – México	1 – 2.13 m Ø x 11.9 m h	1992	Zinc Cleaner
	2 – 0.91 m Ø	1992	Copper / Lead Cleaner
Minera Del Sur – Bolivia	2 – 0.91 m Ø x 6.4 m h	1991	Lead Cleaner
	1 – 2.13 m Ø x 7.9 m h	1991	Zinc Recleaner
Samarco Mineracao – Brazil	4 – 3.66 m Ø x 13.4 m h	1991	Iron Ore
Cominco Alaska Red Dog – USA	1 – 3.66 m Ø x 11.9 m h	1991	Zinc Cleaner
Impala Platinum – South Africa	1 – 1.22 m Ø x 13.3 m h	1991	Platinum
	1 – 0.91 m Ø x 13.3 m h	1991	Platinum
Minera Escondida – Chile	8 – 4.0 m x 4.0 m x 13.9 m h	1990	Copper Cleaner
	1 – 3.66 m Ø x 13.1 m h	1990	Copper-Moly Separation
	1 – 3.05 Ø x 13.1 m h	1990	Moly 1st Clnr
	1 – 1.83 Ø x 13.1 m h	1990	Moly 2nd Clnr
	1 – 1.22 Ø x 13.1 m h	1990	Moly 3rd Clnr
JCI Atok Mine – South Africa	1 – 1.22 m Ø x 14.6 m h	1990	PGM
San Ignacio de Morococha – Perú	1 – 1.83 m Ø x 14.0 m h	1990	Zinc Cleaner
Star-Phoenix – USA	1 – 1.22 m Ø x 10.1 m h	1990	Lead Cleaner
	1 – 1.83 m Ø x 10.1 m h	1990	Zinc Rougher / Cleaner
OK Tedi Tabubil – PNG	2 – 3.66 m Ø x 14.9 m h	1990	Cu Cleaner
Murchison Scuddles – Australia	3 – 2.44 m Ø x 16.5 m h	1990	Zinc Rougher / Cleaner
Noranda Matagami – Canada	1 – 1.22 m Ø x 9.1 m h	1990	Copper
Goldfields Merensky – S. Africa	3 – 2.44 m Ø	1990	Platinum
Curragh Resources Faro – Canada	2 – 3.66 m Ø x 13.1 m h	1989	Zinc Cleaner