



Selected Heap Leach Projects

Project Name	Client	Location	Approximate Pad Surface Area (ft ²)	Third Party Review/ Due Diligence	Project Management/ Project Oversight	Alternative Analysis	Liner Evaluation/ Vertical Expansion	Conceptual Design/ Feasibility Study	Life-of-Mine (LOM) Study	Geotechnical Investigation	Detailed Design and Technical Specifications	Design Review	Construction Cost Estimate	Construction Management/ Construction Oversight	Construction QA/QC	Bid Document Preparation/ Bid Process	Permitting Assistance
Carlota Copper Project	Cambior USA	Arizona	10,000,000									◆					
Big Springs Leach Pad Expansion	Freeport McMoran	Nevada	400,000								◆		◆	◆	◆	◆	
Jerritt Canyon Leach Pad & Pond Expansion	Freeport McMoran	Nevada	500,000								◆		◆	◆	◆	◆	◆
North Area Leach Pad Expansions Phases I, II, III	Newmont	Nevada	5,000,000				◆										
North Area Leach Pad & Pond Expansion Phase IV	Newmont	Nevada	2,000,000				◆					◆	◆				
North Area Leach Pad & Pond Expansion Phase Va	Newmont	Nevada	2,500,000		◆		◆					◆	◆				◆
North Area Leach Pad Expansion Phase Vb	Newmont	Nevada	2,500,000		◆	◆	◆			◆	◆		◆	◆	◆	◆	◆
North Area Leach Pad Expansions Phase VI	Newmont	Nevada	4,000,000		◆	◆	◆			◆	◆		◆	◆	◆	◆	◆
South Area Leach Property Pad & Pond Expansion Stage II	Newmont	Nevada	4,500,000		◆		◆										
South Area Leach Non-Property Pad Expansion Phase IIIa	Newmont	Nevada	1,500,000		◆	◆	◆										
South Area Leach Non-Property Pad & Pond Expansion Phase IIIb	Newmont	Nevada	4,500,000		◆	◆	◆			◆	◆		◆		◆		◆
South Area Leach Non-Property Pad/Pond Expansion Phase IV	Newmont	Nevada	5,000,000		◆	◆	◆			◆	◆		◆		◆		◆
South Area Leach Phase V	Newmont	Nevada	2,500,000		◆	◆				◆	◆						
South Area Leach Non-Property/Property GQX Expansion Study	Newmont	Nevada	12,000,000		◆	◆		◆					◆				
Refractory Ore Demonstration Pad	Newmont	Nevada	1,000,000		◆						◆		◆		◆	◆	
Refractory Ore Leach Pad Final Design	Newmont	Nevada	10,000,000		◆				◆	◆	◆		◆			◆	◆
Refractory Ore Phase 1 Pad (Construction)	Newmont	Nevada	1,500,000		◆							◆					
Immigrant Springs (Mill 3 Heap Leach Facility Expansion)	Newmont	Nevada	2,500,000		◆			◆					◆				
Phoenix Project	Newmont	Nevada		◆									◆				
West Dedicated Pad Phase 3	RMGC	Nevada	4,500,000		◆								◆		◆		
West Dedicated Pad Phase 4	RMGC	Nevada	4,000,000		◆							◆	◆				
Mt. Hamilton Heap Leach Facility	Westmont	Nevada	5,000,000		◆	◆		◆		◆			◆				
Chase Hill Pad Closure	Brewer	S Carolina	600,000									◆					
Whitewood Creek	Homestake	S. Dakota	7,000,000								◆		◆				
Quebrada Blanca Phases II and III	Quebrada Blanca S.A.	Chile	10,000,000									◆					
Cerro Quama	Cyprus Minerals	Panama	1,000,000									◆	◆				
Maqui Maqui Heap Leach Facility Stages 1 & 2	Minera Yanacocha	Peru	4,500,000				◆										
Maqui Maqui Heap Leach Facility Stage 3	Minera Yanacocha	Peru	1,700,000		◆		◆				◆		◆	◆	◆		
Maqui Maqui Heap Leach Facility Raw Water Pond	Minera Yanacocha	Peru	N/A		◆					◆			◆				
Carachugo Heap Leach Facility Stages 1, 2, & 3	Minera Yanacocha	Peru	4,500,000				◆										
Carachugo Heap Leach Facility Stage 4	Minera Yanacocha	Peru	1,700,000		◆		◆			◆	◆		◆	◆	◆	◆	
Carachugo Heap Leach Facility Stage 5	Minera Yanacocha	Peru	1,700,000		◆		◆			◆	◆		◆	◆	◆		
Carachugo Heap Leach Facility Stage 6	Minera Yanacocha	Peru	1,700,000		◆		◆			◆	◆		◆	◆	◆		
Carachugo Heap Leach Facility Stage 7a/7b	Minera Yanacocha	Peru	4,900,000		◆		◆			◆	◆		◆	◆	◆		



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Carachugo Heap Leach Facility Stage 8	Minera Yanacocha	Peru	2,700,000		◆	◆				◆	◆		◆		◆		
Carachugo Heap Leach Facility Stage 9	Minera Yanacocha	Peru	4,800,000		◆	◆				◆	◆		◆		◆	◆	
Cerro Yanacocha Feasibility Study	Minera Yanacocha	Peru	16,000,000		◆	◆			◆	◆			◆				
Cerro Yanacocha Heap Leach Facility Stage 1	Minera Yanacocha	Peru	2,100,000		◆		◆			◆	◆		◆	◆	◆		
Cerro Yanacocha Heap Leach Facility Stage 2	Minera Yanacocha	Peru	3,900,000		◆		◆			◆	◆		◆	◆	◆		
Cerro Yanacocha Heap Leach Facility Stage 3	Minera Yanacocha	Peru	3,000,000		◆					◆	◆		◆	◆	◆		
Cerro Yanacocha Heap Leach Facility Stage 4	Minera Yanacocha	Peru	5,500,000		◆					◆	◆		◆		◆		
Cerro Yanacocha Heap Leach Facility Stage 5	Minera Yanacocha	Peru	5,100,000		◆							◆					
La Quinua/Cerro Negro Heap Leach Facility Feasibility Study	Minera Yanacocha	Peru	35,000,000		◆	◆			◆	◆							
La Quinua Heap Leach Facility Stages 1	Minera Yanacocha	Peru	6,600,000		◆					◆	◆		◆		◆		
La Quinua Heap Leach Facility Stages 2	Minera Yanacocha	Peru	5,000,000		◆					◆	◆		◆		◆		
La Quinua Heap Leach Facility Stages 3	Minera Yanacocha	Peru	4,900,000		◆							◆					
Yanacocha LOM Studies (Carachugo, Cerro Yanacocha, and La Quinua)	Minera Yanacocha	Peru	50,000,000		◆	◆			◆	◆			◆				
Cerro Verde Heap Leach Pad C, D, and E Expansions	SMCVSA	Peru	2,000,000		◆							◆	◆		◆	◆	
Cerro Verde Heap Leach Pad 4A Phase 1	SMCVSA	Peru	17,000,000		◆	◆			◆		◆		◆		◆	◆	
Cerro Negro Heap Leach Feasibility Study	SMCVSA	Peru	10,000,000		◆	◆		◆					◆				
Llallagua Heap Leach Phase 5/5A Expansion	Inti Rami	Bolivia	2,000,000		◆						◆		◆		◆		
Muruntau Heap Leach Facility Phase 3	ZNVJ	Uzbekistan	6,000,000		◆							◆	◆				
Muruntau Phase 4 Life of Mine Study	ZNVJ	Uzbekistan	8,500,000		◆				◆				◆				
Batu Hijau Dump Leach Project	PTNNT	Indonesia	5,000,000		◆	◆			◆				◆				
TOTAL			319,800,000														