

HyperSparge™ Installation List

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Client	Site	Country	Installation	Number Installed	Industry	Type
Glencore	Mount Isa Mines	Australia	2009	4	Copper	DN15
Glencore	Asturiana de Zinc	Spain	2009	12	Zinc	DN15
Glencore	Nordenham	Germany	2010	18	Zinc	DN15
RioZim	Empress Nickel Refinery	Zimbabwe	2011	1	Nickel-Copper	DN15
Glencore	McArthur River Mine	Australia	2011	16	Lead-Zinc	DN15
Panterra Gold	Las Lagunas	Dominican Republic	2012	60	Gold	DN15
Indura	Santiago	Chile	2012	2	Food and Beverage	DN15
PanAust	Phu Kham	Laos	2011	1	Copper	DN15
Glencore	Raglan Nickel mine	Canada	2011	42	Nickel	DN15
Glencore	Nordenham	Germany	2012	6	Zinc	DN15
Glencore	McArthur River Mine	Australia	2012	20	Lead-Zinc	DN15
Eldorado Gold	Kisladag	Turkey	2012	24	Gold	DN15
Newcrest Mining	Telfer	Australia	2012	10	Copper	DN15
Glencore	Asturiana de Zinc	Spain	2012	2	Zinc	DN15
First Quantum Minerals	Cobre Las Cruces	Spain	2012	28	Copper	DN15
Teck	Red Dog Mine	USA	2012	1	Lead-Zinc	DN15
GPM Gold	Ararat	Armenia	2013	54	Gold	DN15
Glencore	McArthur River Mine	Australia	2013	48	Lead-Zinc	DN15
RAUB Gold Mining	Raub Pahang	Malaysia	2013	7	Gold	DN15
Binani Zinc	Kochi, Kerala	India	2013	8	Zinc	DN15
Glencore	Asturiana de Zinc	Spain	2013	6	Zinc	DN15
Centerra Gold	Kumtor	Kyrgyzstan	2013	12	Gold	DN15
Bisha Mining	Bisha Mine	Eritrea	2014	4	Copper-Zinc	DN15
Penoles	Met-Mex	Mexico	2014	6	Copper	DN15
Centamin	Sukari Gold Mines	Egypt	2014	12	Gold	DN15
Carbery Group	Cork Plant	Ireland	2014	1	Fermentation	DN15
Aqwest	Bunbury	Australia	2015	1	Water	DN15
Sumatra Copper and Gold	Tembang	Indonesia	2016	3	Gold	DN15
Centerra Gold	Kumtor	Kyrgyzstan	2016	12	Gold	DN15
Didion Milling	Cambria	USA	2016	2	Fermentation	DN25
Glencore	McArthur River Mine	Australia	2016	14	Lead-Zinc	DN25
Sable Zinc	Kabwe	Zambia	2017	5	Copper	DN15
Glencore	HRL Pilot	Australia	2017	6	Copper	DN15
Glencore	Ernest Henry	Australia	2017	1	Copper	DN25
New Gold	Peak Gold Mines	Australia	2017	6	Gold	DN15
MMG	Kinsevere	Zambia	2017	6	Copper	DN15

Total

461