



CLEANPROTECH
CLEAN | PROCESS | TECHNOLOGIES

ARE YOU UNDERESTIMATING
FLOTATION YIELD??

ULTIMATE FLOTATION TEST

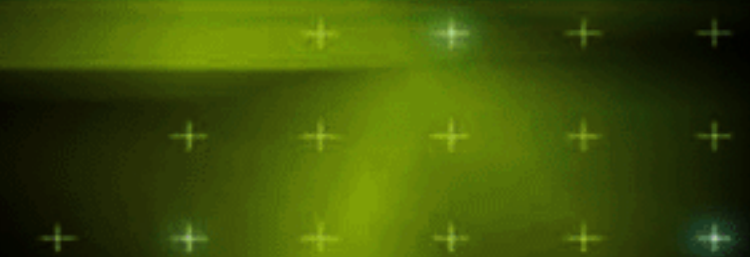
COAL LOSSES TO FLOTATION
TAILINGS COULD BE COSTING
YOU MILLIONS OF DOLLARS,
WITHOUT EVEN KNOWING!

THE UFT CAN HELP.

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CLEAN PROCESS TECHNOLOGIES HAVE DEVELOPED A NEW STANDARD IN FLOTATION TESTING. IT WAS DISCOVERED THAT THE AUSTRALIAN STANDARD METHOD (AS 4156.2.2) HAD OVER 100 DIFFERENT CONFORMING INTERPRETATIONS, OF WHICH THE MAJORITY WERE DRAMATICALLY UNDERESTIMATING THE POTENTIAL YIELD FROM FINE COAL FLOTATION.

THE ULTIMATE FLOTATION TEST WAS DESIGNED TO GIVE THE CLOSEST FLOTATION RESPONSE CURVE TO THE THEORETICAL CURVE AS POSSIBLE.

BY ANALYSING THE FEED, PRODUCT AND TAILS STREAMS AROUND A FLOTATION CIRCUIT THE UFT RESULTS CAN BE USED TO GENERATE A PARTITION CURVE, MAKING THE UFT A POWERFUL TOOL IN DETERMINING PERFORMANCE.

CLEAN PROCESS TECHNOLOGIES OFFERS FLOTATION TEST SERVICES TO A NUMBER OF COAL HANDLING AND PREPARATION PLANTS AROUND THE WORLD.

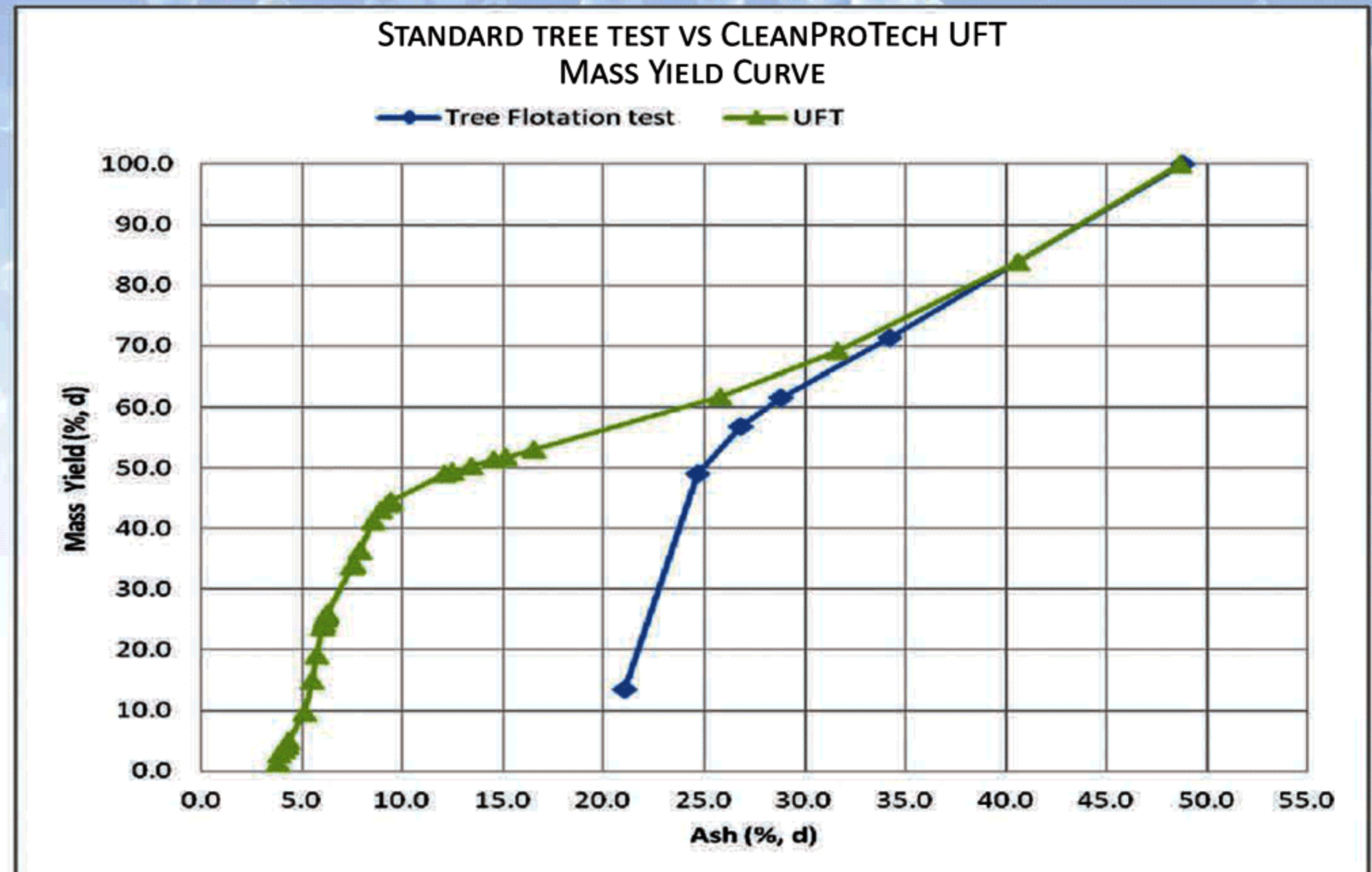
CLEANPROTECH HAS ALSO DEVELOPED STANDARD LAB FLOTATION METHODS FOR TESTING OF SAMPLES FROM 100g UP TO 200+ kg.

ENGINEERS AND GEOLOGISTS ARE MAKING USE OF THE UFT RESULTS TO ENSURE THAT THE POTENTIAL OF THE COAL RESOURCE IS FULLY UNDERSTOOD AND THAT THE CHPP IS MAXIMISING COAL RECOVERY.

THE STANDARD MASS YIELD GRAPH CLEARLY SHOWS THAT THERE IS LITTLE OR NO VALUABLE MATERIAL IN THE THICKENER UNDERFLOW, SUGGESTING THAT THE PLANT IS OPERATING WELL.

ON THE OTHER HAND THE RESULTS FROM THE CLEAN PROCESS TECHNOLOGIES UFT SHOWS A VERY DIFFERENT PICTURE DEMONSTRATING THAT THERE IS A SUBSTANTIAL AMOUNT OF RECOVERABLE COAL EXITING THE PLANT IN THE TAILINGS STREAM, WITH A 50% YIELD AT AN ASH OF 13.4% ACHIEVABLE FROM THE TAILINGS STREAM ALONE.

THE UFT DATA CAN THEN BE USED BY THE PLANT TO EXAMINE THEIR SYSTEMS AND OPERATION AND MAKE CHANGES TO RECOVER THIS COAL. BY RECOVERING THIS COAL, YOU WOULD ALSO REDUCE THE AMOUNT OF SOILS LEAVING THE PLANT IN TAILINGS BY HALF, LEADING TO LESS TAILINGS DAM REQUIREMENTS AND REDUCED OPERATING COSTS. CLEAN PROCESS TECHNOLOGIES ASKS YOU TO INVESTIGATE WHAT METHOD YOUR COMPANY CURRENTLY USES TO EVALUATE THE FLOTATION PERFORMANCE OF BORE CORE SAMPLES AND PLANT FLOTATION OPERATIONS, TO SEE IF YOU ARE ACHIEVING THE MAXIMUM RECOVERY POTENTIAL FROM YOUR RESOURCE.



THE DIFFERENCE BETWEEN THE UFT AND THE COMMON SEQUENTIAL TREE FLOTATION TEST.

THE UFT SHOWS A 50% YIELD AT AN ASH OF 13.4 % (d).

THE STANDARD TREE TEST SHOWED THAT THERE WAS NO SALEABLE COAL IN THE TAILINGS LEAVING THE PLANT.