



1st September, 2008

Re :METS Testing

To Whom it may concern,

We have just completed a blind test of our METS equipment at a hazardous material transfer site for McQuillans Envirocare in Co. Antrim, N. Ireland with very suitable results which are included as part of this report.

We initiated a soil treatment scenario without any preconception of what type or level of contamination we would be treating with the METS process. We were presented with two distinct sample soil stacks to treat with no pre-testing being done for either contaminant type, contaminant level or bio nutrients.

The soil was treated in small runs with varied pressure and feed rates for our own training purposes. A sample was taken immediately prior to treatment and two weeks after treatment.

Soil Analysis Report

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L530173 McQuillan Envirocare: McQuillan Envirocare

STL Laboratory Number	10665911	10665912	10665913	10665914
Customer Sample Ref.	<u>Sample A30PSI</u>	<u>Sample B40PSI</u>	<u>Sample B30PSI</u>	<u>Sample B30PSIx2Run</u>

<u>Analyte</u>	<u>Method</u>	<u>Units</u>				
Sulphate as SO ₃ , water soluble	46	g/l	1.7	0.009	<0.000	0.050
TOC by ignition in Oxygen	27	%	6.7	1.3	0.66	1.2
TPH by GC (>C6-C40)	317	mg/kg	12000	1000	330	1300
Starting contamination			>100,000*	>6,500	>6,500	>6,500
Matrix Tested			soil/sand	sand**	sand**	sand**
NPK			?	?	?	?
Percent reduction/2 weeks			88%	85%	95%	80%

* Soil Sample A was an unknown mixture of illegal diesel fuel (red) that had been chemically altered with a series of acids and chemicals to eliminate the dye color for sale/use as over road fuel. A full chemical analysis of this material has not been completed but it is safe to estimate this would have been categorized as hazardous material.

** Soil Sample B was a sand matrix void of organics (NPK) to provide a nutrient source for the bacteria. The degradation experienced was from bacterial digestion only and the petroleum fuel (tph) was the only organic food source within the matrix.

As you can see by the numbers presented, we achieved between 80 and 95% reduction in less than two weeks. We feel confident that with foreknowledge of the contaminant type, level and nutrient requirements we can exceed both reduction in clean-up levels and timeframe, all the while reducing remediation costs significantly.

We are currently accepting tenders to further the application of the METS process in the marketplace, offering significant cost and time savings over current methodologies. Please contact me at your earliest convenience to answer any remaining questions you may have regarding our services.

Yours Sincerely,

David McCready

Director of MB Environmental Solutions