Iowa Department of Natural Resources

Beneficial Use Determination:
Analytical Testing Report

Beneficial Use ID#: _____ -BUD- _____ - _____

DNR Certified Lab: _____

Lab Report Date: _____

By-Product Generator: _____

City: _____ State: _____ Zip: _____

By-Product Name: _____

Send completed report form(s), laboratory analytics, and supplemental documentation to:

Iowa Department of Natural Resources
Land Quality Bureau
Solid Waste & Contaminated Sites Section
6200 Park Ave Ste 200
Des Moines, IA 50321

For questions concerning this report form please contact the DNR at (515) 201-8272.

ANALYTICAL TESTING RESULTS

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods (SW-846).

Required		Synthetic Precipitation Leaching Procedure (EPA Test Method 1312)			Total Metals		
*	Contaminant	MCL	10 X MCL	Test Result	Regulatory Limit	Test Result	
☐	Antimony	0.006 mg/L	0.06 mg/L	mg/L	31 mg/kg		mg/kg
☐	Arsenic	0.010 mg/L	0.10 mg/L	mg/L	10 mg/kg		mg/kg
☐	Barium	2.0 mg/L	20.0 mg/L	mg/L	15,000 mg/kg		mg/kg
☐	Beryllium	0.004 mg/L	0.04 mg/L	mg/L	110 mg/kg		mg/kg
☐	Boron				16,000 mg/kg		mg/kg
☐	Cadmium	0.005 mg/L	0.05 mg/L	mg/L	70 mg/kg		mg/kg
☐	Chromium	0.1 mg/L	1.0 mg/L	mg/L	**(Total)		mg/kg
					(Hexavalent - VI) 12 mg/kg		mg/kg
					(Trivalent - III) 97,000 mg/kg		mg/kg
☐	Cobalt				23 mg/kg		mg/kg
☐	Copper	1.3 mg/L	13.0 mg/L	mg/L	3,100 mg/kg		mg/kg
☐	Fluoride	4.0 mg/L	40.0 mg/L	mg/L	4,700 mg/kg		mg/kg
☐	Lead	0.015 mg/L	0.15 mg/L	mg/L	400 mg/kg		mg/kg
☐	Lithium				160 mg/kg		mg/kg
☐	Manganese				10,000 mg/kg		mg/kg
☐	Mercury	0.002 mg/L	0.02 mg/L	mg/L	23 mg/kg		mg/kg
☐	Molybdenum				390 mg/kg		mg/kg
☐	Nickel				1,500 mg/kg		mg/kg
☐	Selenium	0.05 mg/L	0.5 mg/L	mg/L	390 mg/kg		mg/kg
☐	Silver				370 mg/kg		mg/kg
☐	Thallium	0.002 mg/L	0.02 mg/L	mg/L	0.78 mg/kg		mg/kg
☐	Vanadium				350 mg/kg		mg/kg
☐	Zinc				23,000 mg/kg		mg/kg

*Required contaminant

**If Total Chromium ≥190 mg/kg, further analysis shall be conducted to determine hexavalent and trivalent results.

Toxicity Characteristic Leaching Procedure (EPA Test Method 1311) - Regulatory Limits

Metals					Volatile Organic Compounds				
*	Contaminant	Regulatory Limit	Test Result		*	Contaminant	Regulatory Limit	Test Result	
☐	Arsenic	5.0 mg/L		mg/L	☐	Benzene	0.5 mg/L		mg/L
☐	Barium	100.0 mg/L		mg/L	☐	Carbon tetrachloride	0.5 mg/L		mg/L
☐	Cadmium	1.0 mg/L		mg/L	☐	Chlorobenzene	100.0 mg/L		mg/L
☐	Chromium	5.0 mg/L		mg/L	☐	Chloroform	6.0 mg/L		mg/L
☐	Lead	5.0 mg/L		mg/L	☐	1,2-Dichloroethane	0.5 mg/L		mg/L
☐	Mercury	0.2 mg/L		mg/L	☐	1,1-Dichloroethylene	0.7 mg/L		mg/L
☐	Selenium	1.0 mg/L		mg/L	☐	Methyl ethyl ketone	200.0 mg/L		mg/L
☐	Silver	5.0 mg/L		mg/L	☐	Tetrachloroethylene	0.7 mg/L		mg/L
					☐	Trichloroethylene	0.5 mg/L		mg/L
					☐	Vinyl chloride	0.2 mg/L		mg/L
Pesticides					**Semi-Volatile Organic Compounds**				
*	Contaminant	Regulatory Limit	Test Result		*	Contaminant	Regulatory Limit	Test Result	
☐	Chlordane	0.03 mg/L		mg/L	☐	o-Cresol	200.0 mg/L		mg/L
☐	Endrin	0.02 mg/L		mg/L	☐	m-Cresol	200.0 mg/L		mg/L
☐	Heptachlor (and its epoxide)	0.008 mg/L		mg/L	☐	p-Cresol	200.0 mg/L		mg/L
☐	Lindane	0.4 mg/L		mg/L	☐	Cresol	200.0 mg/L		mg/L
☐	Methoxychlor	10.0 mg/L		mg/L	☐	1,4-Dichlorobenzene	7.5 mg/L		mg/L
☐	Toxaphene	0.5 mg/L		mg/L	☐	2,4-Dinitrotoluene	0.13 mg/L		mg/L
					☐	Hexachlorobenzene	0.13 mg/L		mg/L
					☐	Hexachlorobutadiene	0.5 mg/L		mg/L
					☐	Hexachloroethane	3.0 mg/L		mg/L
Herbicides					☐	Nitrobenzene	2.0 mg/L		mg/L
*	Contaminant	Regulatory Limit	Test Result		☐	Pentachlorophenol	100.0 mg/L		mg/L
☐	2,4-D	10.0 mg/L		mg/L	☐	Pyridine	5.0 mg/L		mg/L
☐	2,4,5-TP (Silvex)	1.0 mg/L		mg/L	☐	2,4,5-Trichlorophenol	400.0 mg/L		mg/L
					☐	2,4,6-Trichlorophenol	2.0 mg/L		mg/L

*Required contaminant

BY-PRODUCT GENERATOR CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Signature: _____ **Date:** _____

Printed Name: _____ **Title:** _____