



**Brookside Laboratories, Inc.**  
**Analysis Report**

200 White Mountain Drive  
New Bremen, OH 45869  
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Client Number: 69999  
Client Name: Brookside Laboratories, Inc.  
Consultant Name: Home Office  
Date Collected: 03/31/2016  
Date Received: 03/31/2016

Lab Number: VE0331015  
Location: MUNICIPALITY  
Description: SLUDGE  
Sub Description:

	<u>% Dry Basis</u>	<u>% Wet Basis</u>	<u>lbs/Ton Dry</u>	<u>lbs/Ton Wet</u>	<u>lbs/1000 gal</u>
TOTAL SOLIDS	100	14.720	2000	294	1308
NITROGEN-TOTAL KJELDAHL (TKN)	0.860	0.127	17.2000	2.5318	11.2512
NITROGEN-NITRATE	< 0.093	< 0.014	< 1.8520	< 0.2726	< 8.2301
NITROGEN-AMMONIA	0.012	0.002	0.2440	0.0359	0.1596
NITROGEN-ORGANIC	0.848	0.125	16.9560	2.4959	11.0916
PHOSPHORUS-TOTAL (ICP)	1.958	0.288	39.1615	5.7646	25.6170
PHOSPHORUS AS P2O5	4.487	0.660	89.7347	13.2089	58.6989
POTASSIUM	0.813	0.120	16.2615	2.3937	10.6373
POTASSIUM AS K2O	0.979	0.144	19.5886	2.8834	12.8137

pH 6.35 SU  
SPECIFIC GRAVITY 1.06

	<u>mg/kg Dry Basis</u>	<u>mg/kg Wet Basis</u>	<u>lbs/Ton Dry</u>	<u>lbs/Ton Wet</u>	<u>lbs/1000 gal</u>
ARSENIC	< 0.77	< 0.11	< 0.0015	< 0.0002	< 0.0068
CADMIUM	1.93	0.28	0.0039	0.0006	0.0025
CHROMIUM-TOTAL (Cr)	23.75	3.50	0.0475	0.0070	0.0311
COPPER	207.15	30.49	0.4143	0.0610	0.2710
LEAD	27.25	4.01	0.0545	0.0080	0.0357
MERCURY	< 0.02	< 0.00	< 3.8E-5	< 5.6E-6	< 1.7E-4
MOLYBDENUM	10.43	1.53	0.0209	0.0031	0.0136
NICKEL	21.81	3.21	0.0436	0.0064	0.0285
SELENIUM	13.02	1.92	0.0260	0.0038	0.0170
ZINC	1200.38	176.70	2.4008	0.3534	1.5704

MAXIMUM AWSAR 52.02 Dry Ton/Acre 353.37 Wet Ton/Acre  
(BASED ON POLLUTANT LOADING)  
LIMITING POLLUTANT: ZINC

PLEASE NOTE: Maximum Annual Whole Sludge Application Rate (AWSAR) is calculated based on Part 503 regulations which were published in Fed. Reg. 2/19/93 and subsequently revised (Fed. Reg. 2/25/94). Each State where the sludge is used may have more stringent requirement based on other factors such as nutrient or hydraulic loading limits. Please use the most restrictive limit when applying sludge to crop land.

Approval:

Comments:

Kari L. Long

Kari Long  
Environmental Services Coordinator