121 BOUL. HYMUS, POINTE-CLAIRE, QUÉBEC CANADA H9R 1E6 • TÉL: (514) 697-3273 • FAX: (514) 697-2090

Certificat d'analyse

Numéro de demande:

05-216593

Client: Bodycote Essais de Matériaux Canada inc., Ste-Fo

Bon de commande	Votre Projet	Chargé de Projet
08380	06349-B/C:TP5454-001-601	MATHIEU MONGRAIN

Résultats du Contrôle de Qualité (CQ)

Paramètres	Unité LDR		Blanc	Contrôle certifié	
No.Séquence)		LDR		Valeur Obtenu	Écart acceptable
Argent (Ag) No Séquence: 85562 Argent	mg/L	< 0.001	< 0.001	0.881	0.8 - 1.2
Numinium (AI) lo Séquence: 85562 Numinium	mg/L	< 0.01	< 0.01	1.09	0.8 - 1.2
Bore (B) No Séquence: 85562 Bore	mg/L	< 0.02	< 0.02	1.01	0.8 - 1.2
Baryum (Ba) lo Séquence: 85562 Baryum	m g /L	< 0.01	< 0.01	0.97	0.8 - 1.2
3éryllium (Be) No Séquence: 85562 Béryllium	mg/L	< 0.001	< 0.001	1.02	0.8 - 1.2
Bismuth (Bi) No Séquence: 85562 Bismuth	mg/L	< 0.001	< 0.001	1.00	0.8 - 1.2
Calcium (Ca) No Séquence: 85562 Calcium	mg/L	< 0.02	< 0.02	4.88	4 - 6
Cadmium (Cd) No Séquence: 85562 Cadmium	mg/L	< 0.001	< 0.001	0.914	0.8 - 1.2
Cobalt (Co) No Séquence: 85562 Cobalt	mg/L	< 0.001	< 0.001	1.06	0.8 - 1.2

Commentaires CQ

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Résultats du Contrôle de Qualité (CQ)

D	Unité	LDR	Blanc	Contrôle certifié	
Paramètres (No.Séquence)				Valeur Obtenu	Écart acceptable
Chrome (Cr) No Séquence: 85562					
Chrome	mg/L	< 0.001	< 0.001	1.07	0.8 - 1.2
Cuivre (Cu) No Séquence: 85562 Cuivre	mg/L	< 0.001	< 0.001	1.05	0.8 - 1.2
				1.00	0.0 - 1.2
Fer (Fe) No Séquence: 85562 Fer	mg/L	< 0.01	< 0.01	1,04	0.8 - 1.2
P otassium (K) No Séquence: 85562 Potassium	mg/L	< 0.5	< 0.5	5.1	4 - 6
_ithium (Li) No Séquence: 85562					
_ithium	mg/L	< 0.001	< 0.001	1.09	0.8 - 1.2
Magnésium (Mg) No Séquence: 85562					
Magnésium 	mg/L	< 0.01	< 0.01	5.18	4 - 6
Manganèse (Mn) No Séquence: 85562					
Manganèse	mg/L	< 0.005	0.006	0.979	0.8 - 1.2
Molybdène (Mo) No Séquence: 85562					
Molybdène	mg/L	< 0.001	< 0.001	0.898	0.8 - 1.2
Sodium (Na) No Séquence: 85562					
Sodium	mg/L	< 0.5	< 0.5	5.7	4 - 6

Commentaires CQ

www.na.bodycote-mt.com

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Certificat d'analyse

Numéro de demande:

05-216593

Client: Bodycote Essais de Matériaux Canada inc., Ste-Fo

Bon de commande	Votre Projet	Chargé de Projet
08380	06349-B/C:TP5454-001-601	MATHIEU MONGRAIN

Résultats du Contrôle de Qualité (CQ)

Davama à fun a	Unité	LDR	Blanc	Contrôle certifié	
Paramètres (No.Séquence)				Valeur Obtenu	Écart acceptable
Nickel (Ni)					
No Séquence: 85562					
Nickel	mg/L	< 0.001	< 0.001	1.10	0.8 - 1.2
Plomb (Pb)					
No Séquence: 85562					
Plomb	mg/L	< 0.001	< 0.001	1.00	0.8 - 1.2
Antimoine (Sb)					
No Séquence: 85562					
Antimoine	mg/L	< 0.001	< 0.001	0.946	0.8 - 1.2
Étain (Sn)					
No Séquence: 85562					
Étain	mg/L	< 0.001	< 0.001	0.965	0.8 - 1.2
Titane (Ti)					
No Séquence: 85562					
Titane	mg/L	< 0.001	0.001	0.975	0.8 - 1.2
Vanadium (V)					
No Séquence: 85562					
Vanadium	mg/L	< 0.001	< 0.001	0.985	0.8 - 1.2
Zinc (Zn)	•••••				
No Séquence: 85562					
Zinc	mg/L	< 0.01	< 0.01	1.10	0.8 - 1.2

Commentaires CQ

PROVISION AND OPERATI	ON OF A CONSTRUCTION CAMP— WORK PLAI
CAM-F DISTANT EARLY W	ARNING (DEW) LINE SITE, NUNAVUT

APPENDIX C

Details on BioGreen Treatment Process



Wastewater Treatment Systems

Description of the Technology

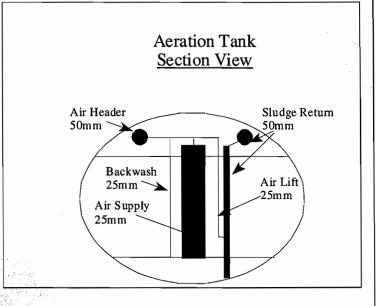
The mobile BioGreen wastewater treatment system is an excellent option for remote construction camps and mining sites. This innovative system is completely enclosed requiring minimal maintenance allowing for little operator knowledge to provide effective treatment.

BioGreen is a fixed-film system that uses special media that provides an area for bacteria to grow at a high surface-to-volume ratio. This allows the BioGreen system to be very effective at providing treatment over a wide range of loading ranges.

The settling compartments remove sediment, debris and floating material from the influent. The first settling tank provides a buffer for controlling the impact load. This is often a serious

problem in conventional systems but is easily dealt with in BioGreen. The water passes from the settling tanks to the fermentation tank where the wastewater is broken into smaller molecules that will be more readily consumed in the aerobic portion of the treatment system.

Aeration is the next stage of the treatment process. The aeration tanks contain an array of filters that provide a high surface-to-volume ratio allowing a high volume of bacteria to grow in a concentrated area and provide treatment. Critical flow rates to the aeration tanks are maintained by a control valve, which minimizes outside variables affecting the impact load. Air injected through draft



tubes located centrally in the chambers creates ideal circulation and maintains adequate Dissolved Oxygen (DO) concentration. A DO gradient from zero to saturation is created, which allows for a much longer food chain for nutrient digestion. This minimizes sludge production as compared to existing methods.

The final step is the effluent holding tank which provides for the removal of suspended solids before final discharge. The result is a clear, odourless effluent.

The only mechanical part of the BioGreen system is a blower that provides the oxygen for the aeration chambers and also the method for sludge transport within the system. A backwash system used to remove excess growth is operated with the same blower that provides air to the aeration tank making very efficient use of the blower. The use of the one blower allows for trouble free maintenance and operation.

Disinfection

The BioGreen system utilizes ultraviolet (UV) light disinfection to provide final treatment of the effluent before discharge. The final effluent passes through the UV chamber where the UV light inactivates any bacteria that may still be in the effluent. The advantages of using UV disinfection include no use of chemicals, no harmful residuals, short reaction time, and effective at inactivating bacteria, cysts and viruses.

Performance

The BioGreen system is designed to meet 20mg/l discharge criteria for both Biochemical Oxygen Demand (BOD) and Suspended Solids (SS).

Contact:

For more information on the BioGreen Secondary Wastewater treatment system, please contact:

Tom Healey BioGreen Ltd 48 Main Dam Road Deer Lake, Newfoundland, A8A 1S2

Telephone: (709) 635-5170 Fax: (709) 635-3281

Email: biogreenwastewater@hotmail.com





October 23, 2002

Torngait Services Inc. Hanger 17, Building 161, Box 430, Station "B" Happy Valley – Goose Bay, Labrador AOP 1E0

Attention:

Mr. Barry Gaulton, Operations Manager

RE:

Biogreen Mobile Unit - Saglek EDM Project No. 30220

Dear Mr. Gaulton:

This is to confirm that EDM Consultants Limited has designed the Biogreen mobile tank for the above referenced project as indicated on drawing G-1, Plan – Tank Arrangement, Dated, Sept 12, 2002.

Biogreen is an accepted wastewater treatment technology within the Province of Newfoundland and Labrador, having proved its ability to meet and exceed the provincial guidelines for wastewater discharge values in numerous applications through the Province.

We hereby certify that the design of the Unit is in conformance with normally accepted design practices for a Bio-Green Wastewater Treatment Unit for an average flow of 8 m³/day.

We also have inspected the Unit as manufactured and found it in conformance with the drawings and specifications. Please note that EDM did not design heat tracing and electrical.

It is noted that this Biogreen tank design constitutes only a component of a full waste water treatment system, other components being a proper site plan, indicating design and location and depth of influent, effluent piping and disposal technique, ie. disposal field, outfall, etc. To obtain environmental approval, site specific design of the effluent disposal system will be required.

...2

[☑]P.O. Box 3802, Viking Trail, Deer Lake, NL Canada ASA 3M1 = Tel; (709) 635-8271 = Fax: (709) 635-5334

[☐] P.O. Box 760, Main Highway, Bay Roberts, NL Cannda AOA 1G0 . Tel: (709) 796-3967 . Fax: (709) 786-3731

[☐] P.O. Box 118, Stn. C. 396 Hamilton River Rd., Happy Valley-Goose Bay. NL Canada AOP 100 . Tol: (709) 896-7028 . Fax: (709) 896-7028

Mr. Barry Gaulton October 23, 2002

Page 2

We trust this meets with your present requirements and look forward to further working together in the near future to complete the design task for the remainder of the project. Once design is complete, we will be resubmitting the entire system to Government Service Centre for final approvals.

Should you have any questions or concerns, please contact the undersigned.

Yours truly,

EDM CONSULTANTS LIMITED

Brad Chaulk, P.Eng.

President

cc: Mr. Dave Healey, Biogreen Wastewater Systems

L:\I\30222 - Biogreen Saglck\Donign\Biogreen Design Oct 23, 2002.doc



APPENDIX D

Incinerator Details



Electric powered heavy-duty winch.



Industrial burner more efficient and durable than commercial burners.



Easy loading and automated functioning.



Inner walls made of high quality refractory cement resisting high temperature up to 1650°C.

ÉCO - 700

· Biosecurity first

- Destruction of the toxic gases in the secondary chamber.
- Complying with the environmental norms of Canada.
- Ashes represent only 3,6 %of the waste mass.
- -Prevent contamination risks from outside when carcasses-recovery trucks come on-site

Easy to operate

- Loading without effort
- Contains up to 700 kg (1549 lbs) of organic waste material.
- No stirring required.
- Model available for natural or propane gas.

· Time and energy saving

- Patented insulation technology of the structure for maximum energy efficiency.
- Limited handling and control panel easy to operate.



114, Grande Ligne, St-Alexis-de-Montcalm (Québec) J0K 1T0 Tél.: (450) 839-3129 Téléc.: (450) 839-2578 ÉCO - 700



114, GRANDE LIGNE, ST-ALEXIS-DE-MONTCALM Tél.: (450) 839-3129



Functioning

- Put the carcasses on the charge grid.
- Operate the powered winch to pull the carcasses inside.
- · Close and lock the door.



- · Enter settings for time and temperature
- An automatic controller will maintain constant temperature.
- Push the start button.
 Stop will be automatic.
- After ten hours clean out the ashes.
- Ashes represent only 3,6% of the total mass to burn.



Biosecurity and others advantages

Biosecurity is an important on-farm stake. Disposal of animal carcasses represents a risk factor for environment and your stockfarming.

Destruction of the toxic gases in the secondary chamber.

Complying with the environmental norms of Canada.

Combustion of gases in the upper secondary chamber allows heat recuperation

Energy saving

Inner walls made of high quality refractory cement resisting high temperatures up to 1650°C



Installation

- Dimensions (without charge table and chimney): length 3m (10 ft) x height 1,5 m (5ft) X width 1,4 m (4,5 ft).
- Exterior installation.
- 120 v. electric supply
- -Must be installed on a concrete slab at a minimum distance of 15m (50 ft) from farm buildings.



Industrial burners more efficient and durable Industrial control panel heated for a good functioning even in cold conditions



Very resistant steel structure