

Memorandum

DATE: April 19, 2018

TO: Robert Boswick

Environmental Engineer

Approvals Branch

Manitoba

Sustainable Development 123 Main Street, 160 Winnipeg MB R3C 1A5 FROM: Elise denHeyer

Community Planner

Portage Community Planning

Services

Municipal Relations 108-25 Tupper St., N.

Portage la Prairie MB R1N 3K1

PHONE:

(204)-239-3348

FAX:

(204)-239-3459

SUBJECT:

CITY OF WINNIPEG BIOSOLIDS LAND APPLICATION PROGRAM

FILE: 5951.00

Community & Regional Planning have no concerns regarding the City of Winnipeg proposed BioSolids Land Application Program in the Rural Municipalities of Macdonald and Cartier.

Thank you for the opportunity to review this notice.

Originally signed by

Elise denHeyer

Inonge Aliaga

c:



Infrastructure

Highway Planning and Design Branch Environmental Services Section 1420 – 215 Garry St., Winnipeg, MB R3C 3P3 T (204) 771-4941 F (204) 945-0593

April 12, 2018

Tracey Braun, M. Sc.
Director, Environmental Approvals Branch
Manitoba Sustainable Development
123 Main St., Suite 160
Winnipeg, MB R3C 1A5

RE:

City of Winnipeg - Biosolids Land Application Program

Client File No. 5951.00

Dear Ms. Braun:

MI has reviewed the proposal under the *Environment Act* noted above and offers the following comments/concern:

Regional Operations

There shall be no application of the biosolids within MI right of way as this may effect quality of surface run off entering MI ditches. In addition, the Proponent should ensure any proposed construction (berms or other) proposed within the Controlled Area must be applied for, and permitted by Manitoba Infrastructure and/or the Highway Traffic Board before any construction begins.

For permit applications, please contact Karen Toews-Therrien at Karen. Toews-Therrien@gov.mb.ca or at (204) 945-0324.

Water Management, Planning and Standards

Water Management, Planning and Standards notes that the Red River Valley Designated Flood Area and the Lower Red River Designated Flood Area are shown as unavailable constraint areas in the proposal, which notes: "Biosolids will not be applied on lands located within 30 metres of Provincial flood designated areas." Designated Flood Areas are regulatory areas in which a designed flood area permit is required, as per Section 14 of the Water Resources Administration Act and Designated Flood Area Regulation 59/2002. Designated Flood Areas do not include all flood prone land in the region, such as those areas adjacent to the Seine River, the Assiniboine River, and Lake Manitoba.

Water Management, Planning and Standards has no objections to EAP 5951.00. If further



flood risk information is required, beyond the extent of the Designated Flood Areas noted in the EAP, inquires can be directed to:

Development Review
Manitoba Infrastructure
2nd Floor 280 Broadway
Winnipeg, Manitoba R3C 0R8
MITWaterReview@gov.mb.ca
204-945-2121

Thank you very much for providing us the opportunity to review the proposal.

Sincerely,

Kimber Osiowy, M. Sc., P. Eng. Manager of Environmental Services

Subject: FW: Request for Review/Comment - Environment Act Proposal - City of Winnipeg Biosolids Land

Application Program - File 5951.00 - Due April 3, 2018

Attachments: Pages from eap citywpgbiosolids appendix c table c1 notes BW.pdf;

eap_citywpgbiosolids_reportbody_final-annotatedBW.pdf

From: Wiebe, Brian (SD) Sent: April-11-18 2:52 PM

To: Boswick, Robert (SD) < Robert.Boswick@gov.mb.ca>

Cc: Page, Elaine (SD) < Elaine. Page@gov.mb.ca>

Subject: RE: Request for Review/Comment - Environment Act Proposal - City of Winnipeg Biosolids Land Application

Program - File 5951.00 - Due April 3, 2018

Hi Rob,

This proposal was a tricky read but here finally are my comments.

General comments:

Application of biosolids at 2x crop P removal assuming 25% of total biosolids P is plant available would be a good place to start (note below that in Table C.2 the selected application rate is listed as 2X but the 18 tonne/ha rate is a 3x rate). Under Monitoring (section 9.1.3) I would add that we need crop yield data and an analysis of Total Phosphorus from a sample of any crop removed (grain and also straw if removed from the filed) to be able to estimate crop removal of P (important for fine tuning application rates). Addition of a small amount of starter P with the seed will be important for many crops especially in cool/wet springs (for canola 10 lbs P_2O_5 /acre would be the AgVise labs recommendation) but is generally a good idea when the main phosphorus application is broadcast and incorporated so that emerging seeds have ready access to P during early growth. As per other biosolids programs, biosolids should only be applied to fields with an Olsen-P soil test value (0-15cm) of less than 60 mg/kg.

I have attached a copy of their proposal/report with my comments/notes although most are listed below.

Appendix C – Table C.2 (annotated copy of table attached)

- 1. The soil test data section should not be titled "Plant Available Nutrients Soil Test Data" but rather "soil test data" because the soil test phosphorus value is not a measure of plant available P. Olsen-P and all other soil test P methods are extractions which when correlated with field data for the area give guidance as to the probability of a crop response to fertilizer P. Calling it Available P is misleading and causes confusion in those reading the table. "Available Phosphate-P" should be labelled "Phosphorus (Olsen-P)". The soil test results were not attached so I do not know what tests were used on the other elements but all should be labelled by the method and not the word "available".
- 2. The calculations look fine and use an estimate of 25% of total P being plant available which is acceptable for now. However at the bottom of the table they have a section "Selected Application Rate" which indicates that they have selected to apply at a 2X crop P removal rate but the application rate they list (18 tonnes/ha) is based on a 3x crop P removal. I would not be in favour of a 3x rate especially since we are only assuming 25% available which could well turn out to be too low.

The proposal includes a brief literature review which in the Phosphorus section (6.2.2.2) contains several points which are inaccurate/misquoted/misunderstood:

- 1. The modified Kelowna extraction is not a recognized nor useful measure of plant available phosphorus in biosolids. I have been following the scientific literature and to date no one has found an extraction which can accurately predict plant available P from biosolids (plant availability is a function of the biosolid properties, the soil properties and how they interact each biosolid-soil mixture is unique).
- 2. The reference to Pastene (1981) relies on a few lines referenced in O'Connor et al (2002) (which is not in their reference list but they may mean O'Connor et al (2004)). This reference does not contain any information as to the

type of biosolid, the Fe and Al concentration or how the P-supplying power was assessed so Pastene's finding may or may not be relevant but cannot be given any weight without more information from the actual thesis. Basing their conclusions that the Winnipeg biosolids will provide a low percentage of plant available P on the Al-Fe/P molar ratio as per Pastene (1981) is unwarranted, especially since they have other actual references with detailed method descriptions indicating the 25-75% plant available P is likely appropriate for Winnipeg biosolids.

- 3. O'Connor et al (2004) found that biosolids containing >50g/kg total Fe+Al AND a solids content >60% had bioavailability
- 4. McCoy et al (1986) used TSP (triple super phosphate) not MCP (monocalcium phosphate) and compared it to composted sewage sludge (high solids and potentially lower plant available P due to drying) which had been treated with Fe or Fe+Al and found it was 10% as plant available as fertilizer P (FE+AL of 45 and 54g/kg for the 2 composts). The proposal mistakenly attributes some results from de Haan (1980) to McCoy et al. de Haan (1980) who used MCP found 4% P bio-availability for non-biosolid sludges (called "chemical" sludge in the paper either effluent or surface water treated with Fe/Al to remove P/impurities) which were a very different material from biosolids. For actual sewage sludges, De Haan found 17-54% P bioavailability for Fe treated sewage sludge and the only Fe treated sludge to have lower P availability than other sewage sludges was one that had 15% Fe content (150 g/kg which is much higher than Winnipeg biosolids).
- 5. Vaneeckhaute et al (2015) did not study biosolids but rather Fe treated liquid hog manure. They found that corn grown with the FePO4-sludge yielded as well as with P fertilizer despite lower P uptake they do not clarify whether the fertilizer treatment had luxury uptake or if the sludge treatment was considered P deficient. The low water solubility indeed indicates poor suitability as a starter fertilizer and would suggest a small amount of starter P fertilizer may be warranted but otherwise the sludge appeared to meet crop P requirements.

Please contact me if you have any questions. Brian

Brian Wiebe, Ph.D., P.Ag. Senior Land-Water Specialist ph: 204-945-0585

			17

Field ID:	San	nple
Land Area Available (ha):		64
2018 Crop	Car	iola
2018 Target Yield:	55 b	u/ac
	lb/ac	kg/ha
Target Nitrogen total less soil residual:	135	151
Fertilizer Phosphate (P2OS) total less soil residual:	40	45
1 x P2O5 Crop Removal @ target Yield:	55	62
2 x P2O5 Crop Removal @ target Yield:	110	123
3 x P2O5 Crop Removal @ target Yield:	165	185
Sulfate-S target	20	22

62/2.2915 = 27 kg P/ha 54 kg P/ha 81 kg P/ha

Plant Available No	trients Soil Test	Data	
	W0001	W0001	Q-11
Sample Depth	0-15 cm	15-60 cm	Total Available
Units	mg	kg ⁻¹	kg ha-1
Total Nitrogen	0,318	0,202	
Available Nitrate-N	02.6	2	15
Available Phosphate-P 01sen-P	12.6		25
Available Potassium	418		836
Available Sulfate-S			
	W0002	W0002	
Sample Depth	0-15 cm	15-60 cm	Total Available
Units	mg	ka-1	kg ha-1
Total Nitrogen	0.238	0.254	
Available Nitrate-N	02,0	2	- 16
Avasable Phosphate-P Olsen - P	07.0		14
Available Potassium	309		618
Available Sulfate-S			

Parameter Name	Parameter Description	Unit	Biosolid Analysis Pilot Project
Estimated Biosolid Volume	In-field	m³	20,000
Specific Gravity	As Received	g cm ⁻¹	1.00
Estimated Biosolids		tonnes	20,000
Dry tonnes biosolids available (=wet tonnes x %solids)	Dried Basis	tonnes	5,379
Moisture	As Received	%	73.1
Total Solids	As Received	%	26.9
Total Volatile Solids	Dry Basis	%	
Organic Matter	Dry Basis	96	
Inorganic Content	Dry Basis	%	
Total Organic Carbon	Dry Basis	%	29.42
N;P Ratio	Dry Basis	x:1	2.10
рН	Saturated Paste		6.15
Total N	Oried Basis	%	3.8
	Dried Basis	mg kg ⁻¹	38,014
	Dried Basis	kg Tonne 1	38.0
Ammonium - N (NH4-N)	wet	mg kg-1	4,795.0
	Dried Basis	mg kg ⁻¹	1,290.4
	Dried Basis	kg Tonne ⁻¹	1.3
Available Nitrate-N	Dried Basis	mg kg ⁻¹	3.77
Available Nitrate-N		kg Tonne 1	0.004
Total Phosphorous	Dried Basis	mg kg 1	18,097
Phosphate P (Modified Kolowna solution)	Dried Basis	mg kg-1	637
Total P:Phosphate-P ratio	Orled Basis	No.1	28
Percent Phosphate of Total		N.	4

Organic N (=TN-ammonium N)	Oried Basis	mg kg ⁻¹	36,724
Organic N	Dried Basis	kg Tonne ⁻¹	37
Method of Application	in:		Incorporated
Anticipated Weath	ier		Cool/dry
Anticipated Volatilization (%) within 1 day		15
Available Organic N (@ 20%)	Oried Basis	kg Tonne ⁻¹	7.3
Ammonium nitrogen available	Oried Basis	kg Tonne 2	1.10
Plant Available Nitrogen (PAN) (Year 1)	Dried Basis	kg Tonne ⁻¹	8.4
PAN Year 2 (@12% mineralization)	Oried Basis	kg Tonne 1	4,4
PAN Year 3 (@6% mineralization)	Dried Basis	kg Tonne ⁻¹	2.2
Phosphorous	Dried Basis	kg Tonne ⁻¹	18.1
P ₂ O _{5 equivalent}	Dried Basis	kg Tonne ⁻¹	41.6
Total Available P2Os (estimate based on 25% of total)	Dried Basis	kg Tonne ⁻¹	10.4

Applicati	on Rate based on Nitro	igen		Land Area Required	
Nitrogen Based Application Rate	Orled Basis	tonnes ha ⁻¹	18	301	Ha
Amount of Available P2O5 applied	Dried Basis	kg ha ⁻¹	186	744	Ac
P ₂ O ₅ Application check		%	415		
Application Ra	te based on Phosphoro	ous (1xCR)		Land Area Required	
Total Phosphorus Based Application Rate	Oried Basis	tonnes ha 1	6	909	Ha
	Dried Basis	kg ha ⁻²	50	2,244	Ac
Amount of Nitrogen applied		lb ac 1	44		
	THE RESERVE	kg ha	101		
Additional Nitrogen required		lb ac-1	90	Company of the last	
Application Rai	te based on Phosphoro	rus (ZxCR)		Land Area Required	
Total Phosphorus Based Application Rate	Oried Basis	tonnes ha	1.2	454	Ha
Amount of Nitrogen applied	Oried Basis	kg ha"	100	1,122	Ac
Additional Nitrogen required		kg ha ⁻¹	51		
Application Ra	te based on Phosphoro	us (3xCR)		Land Area Required	
Total Phosphorus Based Application Rate	Dried Basis	tonnes ha	18	303	Ha
Amount of Nitrogen applied	Dried Basis	kg ha 1	150	748	Ac
Additional Nitrogen required		kg ha t	1	STATE OF THE PARTY.	

Selected Application rate based on:		22 CR F		2X crop removal would be 12 tonnea/ha not 18
	Dried Basis	tonnes ha 1	18	(see above)
Selected Application Rate	Direct dollar	tons ac-1	8	
Selected Application Rate	Wet Basis	tonnes ha ⁻¹	70	
	Wet basis	tons ac'3	31	
Estimated Biosolids Volume Applied	Wet	Tonnnes	4,479	
Estimated Biosolids Volume Remaining	Wet	Tonnes	15,521	
Available Ammonium N - Volatilization loss associated with Organic N - TKN - Ammonium N Available Organic N - Organic N x 0.20 year 1 (Ross and Racz		ethods (0% with Injection)		



Memorandum

DATE: April 5, 2018

TO: Robert Boswick, P.Eng.

Environmental Engineer

Environmental Approvals Branch

Sustainable Development

1007 Century Street

Winnipeg MB R3H 0W4

FROM:

Nada Suresh/Julie Froese/Sonja Bridges

Environmental Compliance and

Enforcement

Sustainable Development

1007 Century Street

Winnipeg MB R3H 0W4

SUBJECT: City of Winnipeg Bio solids Land Application Program (Client File No. 5951.00)

Winnipeg District Office, Environmental Compliance and Enforcement Branch (ECE) of Manitoba Sustainable Development has reviewed the above noted Environmental Act Proposal (EAP) on biosolids land application program and has the following comments to provide:

- EAP propose a 75 meters setback distance (pages 13 & 39) from any occupied residence for land application of biosolids. However it was noted that Clause 13(a) in EAL 1089 ERR prescribe 300 meter setback distance.
- ECE is concerned about odour issues emanating from the field storage and land application of biosolids program.
 Therefore, it is recommended that the best management practices and the mitigatory measures stated in the EAP and brought up in the review process must be incorporated into the Licence conditions.
- 3. ECE noted several people expressed their concerns about "Emerging substances of concern (ESOC)" through City's website dedicated to biosolids. Section 6.2.5 of the EAP states that proponent will continue to monitor academic literature to keep up with up to date information on ESOC. Thus, it is recommended that approval process must take into account of this aspect and consider inclusion of continues monitoring of scientific research and literature on ESOC as part of the reporting procedures for its Licence requirement.

Regulatory concerns - Environmental Act Licence No. 1089 E RR

4. It is noted that Environmental Act Licence No. 1089 E RR issued to City of Winnipeg is also dealing with temporary storage, transportation of biosolids and the disposal of biosolids on agricultural lands. It is also noted that several clauses under the above-mentioned Licence directly infringe upon activities proposed in the Environmental Act proposal. Clause 6 of the EAL 1089 E RR effectively prohibits temporary storage of biosolids other than designated temporary storage pad in RM of West St. Paul. EAP for the biosolids land application program propose field storage of biosolids for a period of five months, which is also considered as a temporary storage of biosolids. Thus, it is recommended that suspension of relevant clauses in the EAL 1089 E RR, which have a bearing on the field storage component of the present EAP, be considered as part of review process. Further, it is recommended that as part of the review process of this EAP, which proposed to obtain a new Environment Act Licence, to consider cancellation of existing EAL#1089 ERR which deals with management of City's biosolids.

Miscellaneous comments:

- It is mentioned in Section 2.1.1 that Class A biosolids likely will not require an Environment Act Licence (EAL).
 However, ECE noted that present Classes of Development Regulations MR 164/1988 as amended by MR 39/2016 does not recognize the different categories of biosolids and require an EAL for any biosolids application.
- 6. Section 5.2.2 (page 25) states that a report entitled "Summary Report City of Winnipeg Biosolids land Application Field Storage Assessment" dated November 2017 was provided as a supplementary report to the above EAP under review. However, it was noted that this report was not part of package for this EAP in Public Registry.

From: Richards, Lisa (WRHA)
Sent: April-04-18 12:57 PM
To: Boswick, Robert (SD)

Subject: City of Winnipeg Biosolids Land Application Program

Attachments: ATT00001.txt; ATT00002.htm

Hi Robert. I support this initiative and believe that the health benefits of the program (climate change mitigation and economic benefits to farmers) will outweigh the potential harms, especially in light of the mitigation measures outlined in the document.

I concur with mitigation measures outlined in the proposal, including the odor control measures for storage sites and the adoption of "good neighbor practices" with respect to odor issues, as well as soil monitoring for heavy metals and regular review of the academic literature pertaining to ESOCs.

I would suggest including a Medical Officer of Health (MOH) on the Advisory Committee to consult on odor and other health-related concerns. As well, I would request to be notified of any significant odor or other health related issues if/when they emerge.

Thanks for the opportunity to review.

Lisa

Lisa Richards, MD MSc FRCPC Medical Officer of Health Winnipeg Regional Health Authority 2nd Floor, 490 Hargrave St. Winnipeg, MB R3A 0X7

Administrative Assistant: Crystal Swain

cswain@wrha.mb.ca Tel: 204 940-1907 Fax: 204-956-4494

Subject:

FW: Request for Review/Comment - Environment Act Proposal - City of Winnipeg Biosolids Land Application Program - File 5951.00 - Due April 3, 2018

From: Kiss, Brian (SD)
Sent: April-04-18 9:32 AM
To: Boswick, Robert (SD)

Subject: RE: Request for Review/Comment - Environment Act Proposal - City of Winnipeg Biosolids Land Application

Program - File 5951.00 - Due April 3, 2018

No wildlife related concerns.

-Brian Kiss

Subject:

FW: Request for Review/Comment - Environment Act Proposal - City of Winnipeg Biosolids Land Application Program - File 5951.00 - Due April 3, 2018

From: +WPG1212 - Conservation Circulars (SD)

Sent: April-03-18 10:03 AM To: Boswick, Robert (SD)

Subject: RE: Request for Review/Comment - Environment Act Proposal - City of Winnipeg Biosolids Land Application

Program - File 5951.00 - Due April 3, 2018

Good morning Robert

Lands Branch SD has no concerns as regards City of Winnipeg Biosolids Land Application Program - File 5951.00

Thank you for the opportunity to review

Winifred Frias

Crown Land Programs Administrator **Lands Branch** Department of Sustainable Development 200 Saulteaux Crescent, Box 25 Winnipeg, Manitoba R3J 3W3 CANADA

Phone: (204) 945-4524 Facsimile: (204) 948-2197





A Please consider the environment before printing this e-mail

From: Epp, Jane (SD) Sent: March-28-18 9:55 AM To: Boswick, Robert (SD)

RE: Request for Review/Comment - Environment Act Proposal - City of Winnipeg Biosolids Land Subject:

Application Program - File 5951.00 - Due April 3, 2018

Forestry and Peatlands has no concerns.

jane

From: Boswick, Robert (SD) Sent: March-05-18 11:51 AM

To: Wilson, Brian (AGR); Labossiere, Don (SD); Cunningham, Neil (SD); Molod, Rommel (SD); Kiss, Brian (SD); Kelly, Jason (SD); Epp, Jane (SD); Conrod, Matt (SD); Missyabit, Ron (SD); Frias, Winifred (SD); Page, Elaine (SD); Phipps, Graham (SD); Stonehouse, Perry (SD); Hawryliuk, Yvonne (SD); Shabaga, Greg (SD); McTavish, Blair (SD); Stanley, Trevor (SD); +WPG574 - HRB Archaeology (SCH); Schafer, Dave (OFC); Kubish, Cheryl (OFC); Roberecki, Susan (HSAL); Browne, Helen (HSAL); +POR331 - Portage CRP (MR); Janusz, Laureen R (SD); Vitt, Cory (SD); +WPG969 - MIT Environmental Services Section (MI) Subject: Request for Review/Comment - Environment Act Proposal - City of Winnipeg Biosolids Land Application Program -File 5951.00 - Due April 3, 2018

Your review and comments would be appreciated for the following proposal submitted pursuant to The Environment Act regarding the City of Winnipeg Biosolids Land Application Program:

http://www.gov.mb.ca/sd/eal/registries/5951wpgbiosolids/index.html

The contact person assigned to co-ordinate review and assessment of the proposal is:

Contact Person: Robert Boswick @ Ph. 204-945-6030 or robert.boswick@gov.mb.ca .

Please indicate to the contact person if you are unable to review the proposal. A non-reply will be considered as indicating your department/branch has reviewed the proposal and has no concerns.

Any comments you have on the proposal should be emailed to the contact person by April 3, 2018.

No hard copies will be provided

Thank you,

Robert Boswick, P.Eng.

Environmental Engineer

Environmental Approvals Branch Manitoba Sustainable Development

REGULAR MAIL - 160-123 Main Street (BOX 80), Winnipeg MB R3C 1A5

COURIERS - 2nd Floor 123 Main Street, Winnipeg MB R3C 1A5

e-mail: robert.boswick@gov.mb.ca

Ph. (204) 945-6030 Cellular (204) 918-5853

FAX: (204) 945-5229

Subject:

FW: Request for Review/Comment - Environment Act Proposal - City of Winnipeg Biosolids Land Application Program - File 5951.00 - Due April 3, 2018

From: Nimetz, Debby (OFC)
Sent: March-22-18 10:27 AM

To: Boswick, Robert (SD) < Robert. Boswick@gov.mb.ca>

Subject: FW: Request for Review/Comment - Environment Act Proposal - City of Winnipeg Biosolids Land Application

Program - File 5951.00 - Due April 3, 2018

Hello Robert,

The OFC has no comments or concerns.

Regards,

Debby Nimetz Administrative Assistant Office of the Fire Commissioner 508-401 York Ave. Winnipeg, Manitoba R3C 0P8

Phone: 204-945-3322 Fax: 204-948-2089

Subject:

RE: Request for Review/Comment - Environment Act Proposal - City of Winnipeg Biosolids Land Application Program - File 5951.00 - Due April 3, 2018

From: Vitt, Cory (SD)

Sent: March-06-18 1:34 PM To: Boswick, Robert (SD)

Subject: RE: Request for Review/Comment - Environment Act Proposal - City of Winnipeg Biosolids Land Application

Program - File 5951.00 - Due April 3, 2018

Ensure:

(from the EAP)

Applicable setback distances around residential areas, residences, groundwater wells, surface water drainage systems and sensitive areas/features will be established as outlined in the provincial *Nutrient Management Regulation* under *The Water Protection Act* and the Farm Practices Guidelines for Pig Producers in Manitoba (April 2007).

The Office of Drinking Water wants to ensure that setback distances are written into the License or the applicable legislation is referenced;

ODW is concerned specifically about surface water, groundwater, and wells.

Thanks.

Cory Vitt, M.Eng. P.Eng.

Approvals Engineer
Office of Drinking Water
Manitoba Sustainable Development
1007 Century Street
Winnipeg, Manitoba R3H 0W4

Phone: 204-806-1363 Fax: 204-945-1365

Email: Cory.Vitt@gov.mb.ca

Website: www.manitoba.ca/drinkingwater

From:

Kelly, Jason (SD)

Sent:

March-05-18 11:59 AM

To: Subject: Boswick, Robert (SD)
RE: Request for Review/Comment - Environment Act Proposal - City of Winnipeg Biosolids Land

Application Program - File 5951.00 - Due April 3, 2018

No comments or concerns

From: Boswick, Robert (SD) Sent: March-05-18 11:51 AM

To: Wilson, Brian (AGR); Labossiere, Don (SD); Cunningham, Neil (SD); Molod, Rommel (SD); Kiss, Brian (SD); Kelly, Jason (SD); Epp, Jane (SD); Conrod, Matt (SD); Missyabit, Ron (SD); Frias, Winifred (SD); Page, Elaine (SD); Phipps, Graham (SD); Stonehouse, Perry (SD); Hawryliuk, Yvonne (SD); Shabaga, Greg (SD); McTavish, Blair (SD); Stanley, Trevor (SD); +WPG574 - HRB Archaeology (SCH); Schafer, Dave (OFC); Kubish, Cheryl (OFC); Roberecki, Susan (HSAL); Browne, Helen (HSAL); +POR331 - Portage CRP (MR); Janusz, Laureen R (SD); Vitt, Cory (SD); +WPG969 - MIT Environmental Services Section (MI) Subject: Request for Review/Comment - Environment Act Proposal – City of Winnipeg Biosolids Land Application Program - File 5951.00 - Due April 3, 2018

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No hard copies will be provided

Thank you,

Robert Boswick, P.Eng.

Environmental Engineer Environmental Approvals Branch Manitoba Sustainable Development

REGULAR MAIL - 160-123 Main Street (BOX 80), Winnipeg MB R3C 1A5

COURIERS - 2nd Floor 123 Main Street, Winnipeg MB R3C 1A5

e-mail: robert.boswick@gov.mb.ca

Ph. (204) 945-6030 Cellular (204) 918-5853 FAX: (204) 945-5229

From: Sent: +WPG574 - HRB Archaeology (SCH)

Sent: To: March-05-18 11:51 AM

Subject:

Boswick, Robert (SD) General Acknowledgement

Attachments:

New Municipal Map.pdf

Thank you for submitting your request for heritage resource assessment.

Requests are screened in the order received and may require 15-20 working days to complete.

If potential for heritage resource impact is identified you will be notified.

If you are an archaeological consultant or project development proponent, general reference materials on the heritage resource impact assessment process are available by calling 204-945-2118 or e-mail to <a href="https://example.com/hrs.c

For enquiries on the status of a submitted request for screening after the initial 15 to 20 working days review period, identify the region (see attached map) and call:

Central (204) 945-7259 Eastman (204) 945-3893

Interlake (204) 945-1071 Norman (204) 945-8145

Parkland (204) 945-1071 Westman (204) 945-7259

Winnipeg (204) 945-8145

You may also wish to visit our website: http://www.gov.mb.ca/chc/hrb/index.html

Reference material available:

- Heritage Resources Act available at: https://web2.gov.mb.ca/laws/statutes/ccsm/h039-1e.php
- Burials Policy
- Heritage Objects General Guidelines

Regards,

Tourism, Culture, Heritage, Sport and Consumer Protection | Tourisme, Culture, Patrimoine, Sport et Protection du consommateur

Historic Resources Branch | Direction des ressources historiques

Main Floor, 213 Notre Dame Avenue | 213, avenue Notre Dame, rez-de-chaussée

Winnipeg MB R3B 1N3

Phone: (204) 945-2118 Fax: (204) 948-2384

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