Kent

Access PB X DIOD DIOD

Please mail, e-mail or fax this form to the Inspector of Dikes by May 31, 2011

CONFIRMATION OF ANNUAL DIKE INSPECTION 2011

TC): <u>,</u>		F	ROM:		DEC	EIVE	
Mi Na 10 ⁴ Sur TE FA	nistry of Fe tural Resor 170 - 152n rrey, BC V	pector of Dikes orests, Lands and urce Operations d St., 2 nd Fl. '3R 0Y3 604 582-5200 604 582-5235 judy.becker@gov.l	bc.ca .	District of K Mr. Matthew Mr. Mick Th P.O. Box 70 7170 Cheam Agassiz, BC TEL: FAX: CELL: E-MAIL:	Connolly diessen Ave. V0M 1A0 604 796-223: 604 819-1956 m.thiessen@		ca	MOIE
1.	If NO, plo If YES, p	nnual (2011) Dike Ir ease indicate expecte lease provide date of the completed chec	ed completion date: f inspection:	Y		NO		
2.	person. I	g to the Provincial F s all the information ease provide updated emergencies):	on the above label	correct?	YES	NO		
3.	enclosed	dike information for with mail out, or see apdated details below	the Dike Safety we	provincial datable page).YES	abase correct?NO	(review green s If NO, pleas	sheet(s)	
4.	If you ha	ve any additional cor	mments or suggestion	ons please indi	icate them belo	ow:		
Su	bmitted by	: Mathew	Consully	Б	Date: Apr	1129/	2011	



7170 Cheam Avenue P.O. Box 70 Agassiz, British Columbia Canada VOM 1A0

Tel: (604 796-2235 Fax: (604) 796-9854 Web: www.district.kent.bc.ca

April 29, 2011

File No. 5225-04

Office of the Inspector of Dikes Ministry of Forests, Lands and Natural Resource Operations 10470 152 Street, 2nd Floor Surrey, BC V3R 0Y3

RE: District of Kent - 2011 Dike Inspection Report

This report is intended to fulfill the requirements of the District of Kent's (District) Annual Dike Inspection Report. The District's dikes are officially known as *Kent Dykes*, *GPS No. 108* within the provincial database, sections referred to in this report were obtained from the Lower Mainland Dike Inventory Maps¹. The official inspection took place on April 4 and April 27, 2011. Photographs are included in Appendix A.

2011 Inspection

Deficiencies

The District's dikes and pump stations are generally in good overall condition with a few exceptions including:

- minor damage to a gate post at the access to Appel Road (Dike Section A);'
- unauthorized excavation and minor plantings along the toe of the dike at the west end of Cutler Road (Dike Section B) (Photographs 1, 2 and 3);
- gravel stockpiling and heavy machine damage at the south end of Hamilton Road (Dike Section C) (Photographs 4, 5 and 6); and
- downed trees are lying against the side slopes of the dike (Dike Section D).

A letter (Appendix B) has been sent to the land-owner at 5908 Cutler Road requesting that they remove the recently planted trees and re-instate the slope to its previous state by May 31, 2011.

There has been gravel stockpiling along the dike slope at the south end of Hamilton Road (Dike Section C). The company did obtain a Temporary Land-use Permit from the District for the stockpiled material. The permit specifies that "stockpiling and screening operations cannot take place on any portion of the dyke structure". Currently, large piles of stockpiled gravel material are pressed against the dike side slope; scarring from heavy machinery exists on the river-side

¹ Intergrated Land Management Bureau. October 2009. Kent 28. Available online at http://www.env.gov.bc.ca/wsd/public_safety/flood/maps.html. Accessed April 27, 2011

(south) dike slope. The District has been pursuing the matter with the company responsible in order to remedy the situation. The large amount of material is too large to remove before the spring freshet; therefore, the District shall perform extensive monitoring of the section in order to mitigate any issues should they occur.

Maintenance Work Completed

The gate post at the access to Appel Road has been repaired by the District's public works crew.

Additionally, the District undertakes annual surface and vegetation management strategies, which includes grading the top surface of the dike and adding three quarter inch crush material as needed. The side slopes are mowed twice annually to ensure sight lines are maintained which also assists in locating areas of concern such as slumping, seepage, erosion, loss of rock and beaver damage etc.

During the freshet all pump stations and flood gates are checked daily to ensure the flood prevention infrastructure is working as intended. Additionally, water levels are continually monitored and debris is removed from trash racks.

Maintenance Works Proposed

The District plans to continue with its annual surface and vegetation management strategies as well as regular monitoring of equipment and pump stations into the coming year. The vegetation maintenance occurs in May and July of each year. Monitoring of equipment begins as the water begins to rise.

Additionally, the District has applied for funding to replace the aging Hammersley pump station. If funding is approved the District will begin the process of re-designing the pump station and constructing an additional flood box which will increase capacity of the pump station during high flow events.

There have not been any surveys performed on the dike within the last 12 months.

If you have further questions please do not hesitate to contact me at 604-796-2235.

Sincerely,

Matthew Connolly

Environmnetal and Engineering Services Coordinator

District of Kent

pc: Mick Thiessen, Director of Engineering

Becker, Judy S ENV:EX

From:

Matthew Connolly [MConnolly@district.kent.bc.ca]

Sent:

Wednesday, April 27, 2011 11:47 AM

To: Subject: Becker, Judy S ENV:EX RE: Dike Inspection Forms

Thanks Judy

Regards,

Matthew Connolly Environmental and Engineering Services Coordinator District of Kent

From: Becker, Judy S ENV:EX [mailto:Judy.Becker@gov.bc.ca]

Sent: Wednesday, April 27, 2011 11:32 AM

To: Matthew Connolly

Subject: RE: Dike Inspection Forms

Hi Matthew,

Yes of course, here are the forms for the Annual Dike Inspection Reporting and the 2011 Spring Freshet.

sincerely,

Judy Becker Program Support for Ministry of Forests, Lands and Natural Resource Operations Website: www.gov.bc.ca/nro

Phone: 604 582-5294

Fax: 604

Water for BC Safe, Sustainable and Valued by all.





From: Matthew Connolly. [mailto:MConnolly@district.kent.bc.ca]

Sent: Wednesday, April 27, 2011 11:06 AM

To: Becker, Judy S ENV:EX **Subject:** Dike Inspection Forms

Hi Judy,

I received a letter and the accompanying forms for the 2011 Annual Dike Inspection. I was wondering if I could get copies of the Confirmation Form and the Dike Inspection Checklist in an electronic format (e.g. Word, PDF, etc)

Regards,

Matthew Connolly Environmental and Engineering Services Coordinator District of Kent

Appendix B Letter to Resident



7170 Cheam Avenue P.O. Box 70 Agassiz, British Columbia Canada VOM 1A0

Tel: (604 796-2235 Fax: (604) 796-9854 Web: www.district.kent.bc.ca



April 28, 2011

File No. 5225-04

Registered Mail

s.22

RE: s.22

Dike Excavation

The District of Kent is the acting Diking Authority for the section of dike adjacent to your property at \$.22 During a recent dike inspection it was revealed that the toe-of-slope along the riverside portion of the dike had been excavated and small trees had been planted in areas along the toe of slope.

Excavations and trees can have detrimental effects on the integrity of the diking system should water levels rise to flood heights. The dike is a safety feature constructed to protect against the possibility of flooding. Any excavation on the dike structure or within the dike right-of-way is strictly prohibited under the <u>Dike Maintenance Act</u> unless prior written approval has been obtained from the Inspector of Dikes.

The District requests that the toe-of-slope adjacent to your property be reinstated to its previous, unaltered state and any trees planted be removed by May 31, 2011. When the dike slope has been reinstated please contact the District to perform a follow-up inspection. Failure to correct this issue may result in fines, incarceration or both. Penalties for contravention of the <u>Dike</u> Maintenance Act are as follows:

Section 6 (2) A person or diking authority who commits an offence under this section is liable on conviction to a fine of not more than \$200 000, and (b) if the offence is a continuing one, to a fine of not more than \$200 000 for each day the offence is continued or to imprisonment not exceeding 12 months, or to both a fine and imprisonment.

If you have any questions please do not hesitate to contact me at 604-796-2235.

Sincerely,

Matthew Connolly

Environmental and Engineering Services Coordinator

District of Kent

pc:

Mick Thiessen, Director of Engineering

Scott Cosman, Deputy Inspector of Dikes

DIKE INSPECTION CHECKLIST

Dike Name (From database)	Kent Dykes	GPS No. (database) Dike Section	10	58	
Water Courses	Frasey Harrison Rivers	Signed	(1)	1	
Date Inspected	April 4 + 27, 2011	Signed	X/		,
your attached inspection 2000 for a detailed guide to	heck the applicable box. If you check to report. Please also refer to "Flood Proto dike inspection and reporting, available ca/wsd/public_safety/flood/pdfs_worksd/pdfs_worksd/public_safety/flood/pdfs_worksd/pdfs_worksd/pdfs_worksd/pdfs_worksd/pdfs_worksd	ection Works Inspect le at:	ction Gui	n detail i de" from	n March
1. Is there any obstruction	YES	NO	N/A		
(access routes, ramps, and g	gates)		X		
•	on or damage to the following?		YES	NO	N/A
 Dike Crest and slop cracking) 	pes (ruts, loss of surfacing material, obstru	ections, slumping,		\times	
Bank Protection (lo	oss of rock, settlement, slumping)			X	
debris, erosion, cor	stations (inlet/outlet channels, gate opera rrosion, structure, mechanical components tes, ramps, and gates)	tion, trash racks,) or damage to dike		×	
3. Were any of the followi	ing serious problems observed? (if yes, p	please attach photo	YES	NO	N/A
Seepage (and/or ev	ridence of piping)			X	
• Erosion				X	
Slumping, cracking	sink holes			X	
5 Stumping, Gracking	5, 51111				
Animal Damage (b)	eavers, animal burrows, cattle, etc.)			X	
				T 1	
Unauthorized cons	truction (excavations, utilities, structures)		LX		
Channel infilling a	nd aggregation			/	X
Significant flood le	evels (within free board) within the last 12	months		X	-
"				· · · · · · · · · · · · · · · · · · ·	

4. Vege	tation Management	YES	NO	N/A
•	Hampers or prevents access?		X	
	Reduces visibility to each toe?		X	
•	Trees in or near dike (within 2m from toe) with potential for uprooting?		<i>\times</i>	
•	Multi-year vegetation management plan in place?	X		
5. Repo	ort describes upgrading, repair and/or maintenance work (including tation management) completed in the past 12 months:	2	Check	
	ort describes and encloses copies of any dike crest surveys and/or engineering es/investigations completed in the past 12 months:	<u>t</u>	Check	
	ort describes the work required in the next 12 months and the estimated dule for completion:	E	Check	
8. Rep	ort includes photos, sketches, maps etc.	T	Check	

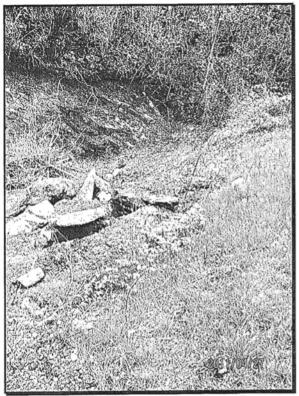
Notes on using this Check List:

- 1. This check list can be used as an outline for your comprehensive report.
- 2. Use the dike names and GPS Numbers on the provincial database (on web page or as shown on green sheet enclosed with mail out).
- 3. When referring to specific locations use chainages from the O&M manual drawings and/or major landmarks (roads, bridges etc). Please do not use local property names.

APPENDIX A Inspection Photographs



Photograph 1. Looking east at excavation along the toe-of-slope of dike section B (April 27, 2011)



Photograph 2. Looking west towards the dike's termination at Hopyard Mountain (April 27, 2011).



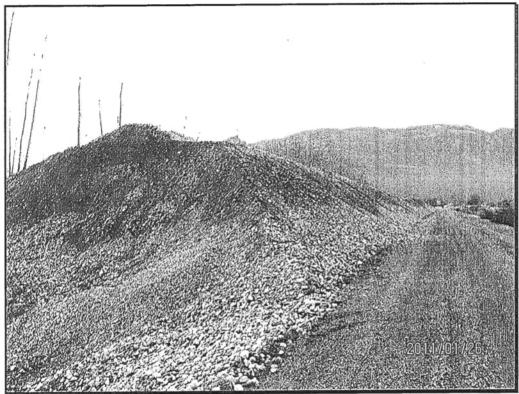
Photograph 3. Looking west at recent excavation along the toe of the dike and at recently planted conifers (April 27, 2011)



Photograph 4. West view of gravel stockpiled against the dike (April 27, 2011)



Photograph 5. Looking west at gravel pile adjacent to dike (January 26, 2011)



Photograph 6. West view of main gravel pile against dike (January 26, 2011)

From: Matthew Connolly [MConnolly@district.kent.bc.ca]

Sent: Friday, June 1, 2012 1:06 PM

To: Becker, Judy S ENV:EX

Cc: Mick Thiessen

Subject: District of Kent 2012 Dike Inspection Report

Attachments: Confirmation of Annual Dike Inspection.pdf; District of Kent Dike

Maintenance Report 2012.pdf

Hi Judy,

I've attached the District's diking report. Please let me know if you have any questions.

Regards,

Matthew Connolly, EP
Environmental and Engineering Services Coordinator

Office: 604-796-2235 Fax: 604-796-9854 District of Kent

Please mail or e-mail this form to the Inspector of Dikes by May 31, 2012

CONFIRMATION OF ANNUAL DIKE INSPECTION 2012

TO:	FROM:
Office of Inspector of Dikes Ministry of Forests, Lands and Natural Resource Operations 10470 - 152nd St Surrey, BC V3R 0Y3 E-mail: judy.becker@gov.bc.ca	
1. Is your Annual (2012) Dike Inspection Complete? If NO, please indicate expected completion date: If YES, please provide date of inspection: YY	YES NO
Please fill out and submit this form by e-mail to: <u>Juc</u> 2012. Enclose PDF copies of the Dike Inspection C if completed. If you have not completed the report, 31, 2012 .	heck List and your comprehensive inspection report
If you are using mail, please send three hard copies of the conf attention of Judy Becker.	irmation form, the checklist and the inspection report to the
2. According to the Provincial Flood Protection Works D all the information on the above label correct? YES If NO, please provide updated details below - (this information):	Database, you are the diking authority contact person. IsNO
3. Is all the dike information for your dike(s) in the proving with mail out, or see the Dike Safety web page). YES If NO, please provide updated details below:	ncial database correct? (review green sheet(s) enclosedNO
4. If you have any additional comments or suggestions pl	ease indicate them below:
Submitted by:	Date: May 30/2012

DIKE INSPECTION CHECK LIST

Wa	ter Courses te Inspected GPS No. (database) Tasen Hamison Rivers Signed	e)()8	
in Ins	r sections 1-4, please check the applicable box. If you check the Yes detail in your attached inspection report. Please also refer to "Flood F pection Guide" from March 2000 for a detailed guide to dike inspection a ailable at: p://www.env.gov.bc.ca/wsd/public safety/flood/pdfs word/fld prot	Protection of the contract of	on Work orting,	
	s there any obstruction, deterioration or damage to dike access? (access tes, ramps, and gates)	YES	NO	N/A
2. I	s there any deterioration or damage to the following?	YES	NO	N/A
0	Dike Crest and slopes (ruts, loss of surfacing material, obstructions, slumping, cracking)			
			1	
•	Bank Protection (loss of rock, settlement, slumping)			
			/	
•	Flood Boxes/Pump stations (inlet/outlet channels, gate operation, trash racks, debris, erosion, corrosion, structure, mechanical components) or damage to dike access?(access routes, ramps, and gates)		V	
		1470		
	Were any of the following serious problems observed? (if yes, please ach photo or sketch)	YES	NO	N/A
•	Seepage (and/or evidence of piping)		/	
0	Erosion Fixed >	1		
	V 1.3 SS			
0	Slumping, cracking, sink holes			
		- 2		
•	Animal Damage (beavers, animal burrows, cattle) etc.)	V	400	
0	Unauthorized construction (excavations, utilities, structures)			-
			15/2	
•	Channel infilling and aggregation		V	
	2 25 2			
•	Significant flood levels (within free board) within the last 12 months			

DIKE INSPECTION CHECK LIST

4.	Vegetation Management	YES	NO	N/A
•	Hampers or prevents access?		1	
			-/	
۰	Reduces visibility to each toe?			
•	Trees in or near dike (within 2m from toe) with potential for uprooting?			
		1		
۰	Multi-year vegetation management plan in place?			
	Report describes upgrading, repair and/or maintenance work (including getation management) completed in the past 12 months:	P	Chec	
	Report describes and encloses copies of any dike crest surveys and/or gineering studies/investigations completed in the past 12 months:	<u>. C</u>	Chec	
	Report describes the work required in the next 12 months and the timated schedule for completion:	2	Chec	
8.	Report includes photos, sketches, maps etc.		Chec	k olete

Notes on using this Check List:

- 1. This check list can be used as an outline for your comprehensive report.
- 2. Use the dike names and GPS Numbers on the provincial database (on web page or as shown on green sheet enclosed with mail out).
- 3. When referring to specific locations use chainages from the O&M manual drawings and/or major landmarks (roads, bridges etc). Please do not use local property names.



7170 Cheam Avenue P.O. Box 70 Agassiz, British Columbia Canada VOM 1A0

Tel: (604 796-2235 Fax: (604) 796-9854 Web: www.district.kent.bc.ca

May 31, 2012

File No. 5225-04

Via Email: judy.becker@gov.bc.ca

Ms. Judy Becker,
Office of the Inspector of Dikes
Ministry of Forests, Lands and Natural Resource Operations
10470 152 Street, 2nd Floor
Surrey, BC
V3R 0Y3

Dear Ms. Becker:

RE: District of Kent - 2012 Dike Inspection Report

This report is intended to fulfill the requirements of the District of Kent's (District) Annual Dike Inspection Report. The District's dikes are officially known as *Kent Dykes, GPS No. 108* within the provincial database, sections referred to in this report were obtained from the Lower Mainland Dike Inventory Maps¹. The official inspections took place on. Photographs are included in Appendix A.

The District's dikes and pump stations are generally in good overall condition. Vegetation and surface management practices are ongoing.

2012 Maintenance Work Completed

The District of Kent undertook a variety of maintenance activities over the past year including placing bank armor protection near station 118+80 on Dike D in the Harrison Mills-Kilby area (Photographs 1 and 2). An approval under the auspices of the *Dike Maintenance Act* was granted by the Inspector of Dikes (Appendix B). All works were monitored by a qualified engineer (P. Eng). The sealed as-built will be forthcoming within the coming months.

Gravel stockpiling adjacent to Dike C at the end of Hamilton Road mentioned in the 2011 Dike Inspection report has been removed and the bank restored (Photograph 3).

Intergrated Land Management Bureau. October 2009. Kent 28. Available online at http://www.env.gov.bc.ca/wsd/public_safety/flood/maps.html. Accessed April 27, 2011

On April 29, 2012 District staff were notified of unusually high water levels in drainages that flow into the Mountain Slough. It was determined that the 125 HP pump at the Hammersley Pump Station had malfunctioned as the Fraser River was rising. Emergency pumps (Photographs 4 and 5) were brought in while the existing pump was removed and sent to be repaired (Photograph 6). Localized high water levels occurred (Photograph 7) but no infrastructure or homes were impacted. The pump has been repaired and re-installed. An alarm is being installed on the pump that will alert the District of unusually high water levels and of any future pump malfunctions.

Additionally, a situation arose where a local landowner erected a gate on the dike preventing access to the District (Photograph 8). The issue has been rectified and the Diking Inspector's office has been notified of the gate.

The District's Public Works staff undertook a variety of annual dike maintenance activities depicted in Table 1.

Date(s)	Activity
January 18, 2011	Removal of Garbage from Dike
February 3, 2011	Fallen Tree Removal and Clean-up
February 15, 2011	Hammersley Flood Gates were repaired
February 16, 2011	Tree Removal and Clean-up
March 24 – 28, 2011	Dike surfaces were graded
May 10 – 31, 2011	Dike banks were mowed
June 1 – 2, 2011	Dike banks were mowed
September 9, 2011	Repaired Dike Gates on Dike D
September 13, 2011	Dike Banks Mowed
September 26, 2011	Tree Removal on Dike D
October 4, 2011	Garbage Removed from Dike A
October 26 – 31, 2011	Dike D Banks Mowed
November 1-10, 2011	Dike A, B and C Banks Mowed
November 16, 2011	Dike Gate Maintenance
May 1-31, 2012	Dikes A, B and C banks mowed
May 22-May 31, 2012	Dikes A, B and C Graded

Maintenance Works Proposed

The District plans to continue with its annual surface and vegetation management strategies as well as regular monitoring of equipment and pump stations into the coming year. The vegetation maintenance occurs mainly in May and July of each year with some work being performed in the autumn.

Additionally, the District has received funding to upgrade and enhance the Hammersley Pump Station. A Request for Proposals was recently closed and the District is now in the process of selecting a consultant to provide detailed design for a new fish friendly pump station and the

design and construction of an additional flood box which should increase capacity of the pump station during summer high flow events.

There have not been any surveys performed on the dike within the last 12 months.

If you have further questions please do not hesitate to contact me at 604-796-2235.

Sincerely,

Matthew Connolly

Environmental and Engineering Services Coordinator

District of Kent

pc: Mick Thiessen, Director of Engineering

APPENDIX A Photographs



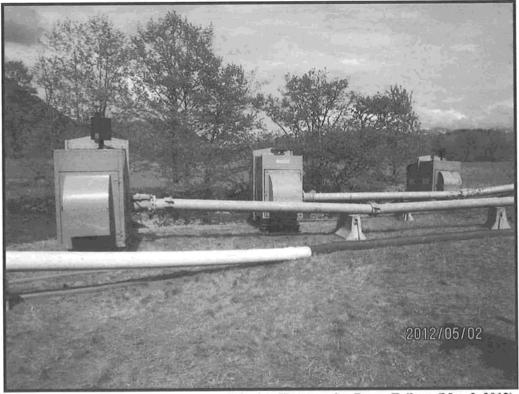
Photograph 1. Looking south at Dike D in the area of heavy erosion (November 7, 2011)



Photograph 2. South view of rip rap work performed on Dike D to combat erosion (March 19, 2012)



Photograph 3. Looking west at Dike A at the end of Hamilton Road after bank stabilization was undertaken (April 16, 2012)



Photograph 4. Emergency pumps used during Hammersley Pump Failure (May 2, 2012)

Appendix A: Photographs Office of the Inspector of Dikes 2012 Dike Inspection Report

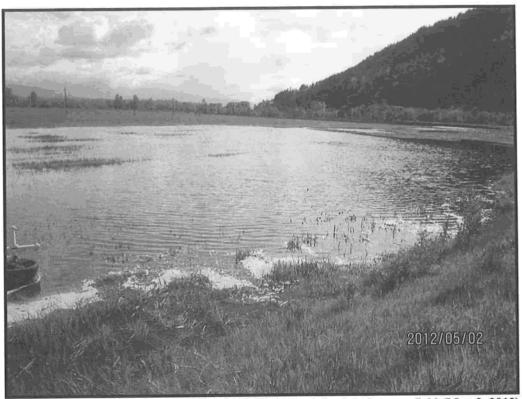


Photograph 5. Emergency Pumps Discharging downstream of the Hammersley Pump Station (May 2, 2012)



Photograph 6. Looking inside Hammersley Pump Station with 125 hp pump removed; 50 hp pump is still in operation (May 2, 2012)a

Appendix A: Photographs Office of the Inspector of Dikes 2012 Dike Inspection Report



Photograph 7. Looking southwest at localized high water in a farmers field (May 2, 2012)



Photograph 8. Looking east at Dike recently installed by a local land owner (June 6, 2012)

APPENDIX B Dike Maintenance Act Approval



February 8, 2012

Our File: 35050-20/DIOD/12Kentdist01

District of Kent PO Box 70 7170 Cheam Avenue Agassiz BC

Attention: Matthew Connolly

Re: Application for Placement of Erosion Protection – Kent Dike – District of Kent – Deputy Inspector of Dikes Review

This is in regards to an application dated January 31, 2012 submitted to our office by you on behalf of the District of Kent requesting approval under Section 2 (4) of the *Dike Maintenance Act* (DMA) to place rip rap along approximately 60 metres of the dike. The works are to be located in the area of an eroded section of the water side of the Dike located roughly 150 meters downstream of the flood box at Sta. 74+70¹.

The repairs works will be based on a drawing prepared by the District of Kent dated Feb 7, 2012 entitled "Kent D Dike Erosion Plot".

This letter constitutes approval under the *Dike Maintenance Act* for the above noted works subject to the terms and conditions set forth below:

General

1. The approval shall remain valid until Jan 1, 2013.

Design and Construction

- The design and construction standards for the works should conform, where possible, to the 'Dike Design and Construction Guide – Best Management Practices for British Columbia July 2003²
- The work shall be carried out under the direct supervision and guidance³ of a Professional Engineer.

Page 28 of 81 FNR-2017-71625

Refer to our Dike Inventory Map for Kent for dike stationing http://www.env.gov.bc.ca/wsd/public_safety/flood/maps/kent_28.pdf

A downloadable copy is available from the Flood Hazard Management webpage http://www.env.gov.bc.ca/wat/flood/structural.html).

- 4. Construction shall be scheduled to avoid elevated water levels that occur during the annual freshet or fall/early winter rainy season to ensure public safety is not compromised.
- 5. Any damage to the dike (ancillary or otherwise) caused by the construction shall be restored to equal to or better than its former or original state. The repair of damages that could affect the structural integrity of the dike must be approved under section 2(4) of the Dike Maintenance Act. Provided the P.Eng confirms that damages do not affect the structural integrity of the dike then approval of the repairs would not be required.
- 6. As-Built Drawings: At the completion of the project 'As-Built' drawings of the works, (one full size set, and one ½ size set and digital copies in .pdf format) sealed by a Professional Engineer shall be provided to the Diking Authority as well as the Inspector of Dikes office for record purposes.

Note: The Inspector of Dikes office shall receive written notification of a proposed schedule to complete the works if the works are not substantially complete by the approval expiry date. The Inspector of Dikes office, at its discretion, may grant a time extension and/or may initiate a further review of the project. This may result in amendments to approval requirements or require a new application and approval.

Please note that the above approval pertains only to the *Dike Maintenance Act* and does not apply to any approvals, licenses or authorizations that may be required by our ministry or other approving agencies.

If you require further information, please contact me at 604.582.5220.

Sincerely

Scott Cosman, P.Eng. Deputy Inspector of Dikes

SBC/sbc

cc: Neil J. Peters, P.Eng., Inspector of Dikes

³ As defined in Section 1(1) of the Engineers and Geoscientist Act of BC

Please mail or e-mail this form to the Inspector of Dikes by May 31, 2013

CONFIRMATION OF ANNUAL DIKE INSPECTION 2013

FAX:	ests, Lands and ce Operations 53 Street	Mr. Matthew of Mr. Mick Thick District of Ker	essen nt 170 Cheam Avenue
TENIO places	ral (2013) Dike Inspection Complete? e indicate expected completion date: se provide date of inspection: YY 2013		NO DD O O
May 31, 2013 inspection repo	and submit this form by e-mail to: Dian Enclose PDF copies of the Dike Insport, if completed. If you have not compober 31, 2013.	ection Check	List and your comprehensive
	ng mail, please send two hard copies of ort to the attention of Diana Ha.	the confirmat	ion form, the checklist and the
2. According to all the inform	the Provincial Flood Protection Works Datation on the above label correct? YES	ntabase, you are	the diking authority contact person. Is
If NO, please emergencies)	e provide updated details below - (this info	rmation also as	sists provincial agencies in case of flood
with mail out, o	e information for your dike(s) in the provin or see the Dike Safety web page). YES	acial database c	orrect? (review green sheet(s) enclosed
If NO, please	provide updated details below: stects industrial and tu	uo feduna	1 prisons
4. If you have a	any additional comments or suggestions ple	ease indicate the	em below:
Submitted by:	24	Date:	May 10/2013



7170 Cheam Avenue P.O. Box 70 Agassiz, British Columbia Canada VOM 1A0

Tel: (604 796-2235 Fax: (604) 796-9854 Web: www.district.kent.bc.ca

May 31, 2013

File No. 5225-04

Via Email: Veronica.Russell@gov.bc.ca

Ms. Veronica Russell
Office of the Inspector of Dikes
Ministry of Forests, Lands and Natural Resource Operations
10470 152 Street, 2nd Floor
Surrey, BC
V3R 0Y3

Dear Ms. Russell:

RE: District of Kent - 2013 Dike Inspection Report

This report is intended to fulfill the requirements of the District of Kent's (District) Annual Dike Inspection Report. The District's dikes are officially known as *Kent Dykes*, *GPS No. 108* within the provincial database, sections referred to in this report were obtained from the Lower Mainland Dike Inventory Maps¹. The official inspections took place between April 5, 2013 and April 9, 2013. The Dike Inspection Checklist is included in Appendix A. Photographs are included in Appendix B.

The District's dikes and pump stations are generally in good overall condition. Vegetation and surface management practices are ongoing.

2012 – 2013 Maintenance Work Completed

During 2012-2013 the District repaired and maintained three pumps as depicted in Table 1.

Table 1. District of Kent Pump Maintenance Completed

Pump Station	Dike Location	Work Performed
Kilby Pump Station	Dike D	 Serviced and Re-sealed Wear Ring Replaced Motor Rewound Replaced Electrical Capacitors and Main Fuse
Duncan-Bateson Pump Station	Dike D	 Replaced a circuit board Replaced two multi rangers Replaced remote control
Hammersley Pump Station	Dike C	125 hp pump removed and rewound

¹ Intergrated Land Management Bureau. October 2009. Kent 28. Available online at http://www.env.gov.bc.ca/wsd/public_safety/flood/maps.html. Accessed April 27, 2011

The District's Public Works staff undertook a variety of annual dike maintenance activities between June 2012 to May 2013. Maintenance activities are depicted in Table 2.

Table 1. District of Kent Dike Maintenance Activities			
Date(s)	Activity		
June 2012	Dikes Graded		
	Dikes Mowed		
	Tree Removal		
	High water (Freshet) Inspections		
July 2012	Tree Removal		
November 2012	Dikes Mowed		
	Dikes Graded		
	Tree Removal		
December 2012	Dikes Mowed		
	Tree Removal		
February 2013	Tree Removal		
	Dike Surfacing		
	Dikes Graded		
	Dike Gate Repairs		
March 1, 2013	Dike Gate Repairs		
	Dike Surfacing		
April 2013	Dike Inspections		
4.17	Dike Graded		
	Dikes Mowed		
	Dike Fence Repair		

Maintenance Works Proposed

The District plans to continue with its annual surface and vegetation management strategies as well as regular monitoring of equipment and pump stations into the coming year. The vegetation maintenance occurs mainly in May and July of each year with some work being performed in the autumn.

Additionally, the District has received funding to construct an additional third flood box at the Hammersley Pump Station. A detailed design to expand the pumping capacity has also been completed by the consulting engineer Opus DaytonKnight. The District is in the process of selecting a contractor to install a third flood box approximately 30 cm lower than the existing two flood boxes to enhance the discharge rate of the District's internal drainage system during heavy rains that are outside of the Fraser River freshet window. The District's existing Hammersley Pump Station has been identified by third party consultants including Northwest Hydraulics and Opus DaytonKnight as requiring upgrading to meet the flow requirements of a 50 year storm event.

If you have further questions please do not hesitate to contact me at 604-796-2235.

Sincerely

Matthew Connolly

Environmental and Engineering Services Coordinator

District of Kent

pc: Mick Thiessen, Director of Engineering

Appendix A
Dike Inspection Checklist

2013 DIKE INSPECTION CHECK LIST

Dike Name (From database)	Kent Dykes	GPS No. (database) 108			
Water Courses	Fraser River	Dike Section	All			
Data Insurated	A!! 5	Inspected	-			
Date Inspected	April 5 – April 9, 2013	Signed	A	1		
guide to dike inspection	od Protection Works Inspect and reporting, available at: .ca/wsd/public_safety/floc				iled	
1. Is there any obstructio	n, deterioration or damage t	o dike access?	YES	NO	N/A	
(access routes, ramps, a	nd gates)		Х			
Location(s):						
Dike D at Kilby Campgrour	nd					
Dike A at Scott Road to Cu						
Dike A at Tranmer Road to						
Dike D – School Road to K	*** ** ** ** ** ** ** ** ** ** ** ** **					
Summary of Issues:						
Gates need adjustment on	Dike D					
	stment on Dike A at Scott Roa	ad				
	Gate needs to be re-hung on Dike A between Tranmer and Appel Roads					
Gate needs adjustment		101 37 1 38 70 8 8				
Maintenance Recommend	ations:					
Re-hang gates, add locks	to gates without locks					
When will Recommendation	ns be Completed:					
Supplemental Photo	s & Descriptions Attached - S	ection 1				
2. Is there any deteriorati	ion or damage to the following	ng?	YES	NO	N/A	
	ruts, loss of surfacing material	, obstructions, slumping,	X			
cracking) Location(s):						
Dike C at Limbert Road						
Dike C at Hamilton to Limb	pert					
Dike D at Kilby Campgrour						
Dike D Train Tracks to Sco						
Summary of Issues:						
Dike edge damaged by tre	e removal on Dike C					
	er causing loss of dike materia	I on dike D				
	ad vehicles causing side slope					
Maintenance Recommend		- Managar S. 1992 (1.5) 전체 (1.5) 기원(기원(기원 (1.5) 전기				
Tree Removal and Rip Ra	p on Dike D					
	ons be Completed: Post Fresh	net 2013				

2013 DIKE INSPECTION CHECK LIST

	YES	NO	N/A
Bank Protection (loss of rock, settlement, slumping)		Х	- 100 W. 1
Location(s):	<u> </u>		300000
Summary of Issues:			
Maintenance Recommendations:			
When will Recommendations be Completed:			
Flood Boxes/Pump stations (inlet/outlet channels, gate operation, trash racks,	Х	·	
debris, erosion, corrosion, structure, mechanical components)			
Location(s):	2212	10040	
Kilby Pumps, Duncan Bateson and Hammersley Pumps maintained and repaired in Summary of Issues:	1 2012 a	nd 2013	
Maintenance Recommendations;			
All complete. Pumps are being maintained regularly			
The complete is a bong maintained regularly			
When will Recommendations be Completed: n/a			
Culverts/Discharge Pipes (breaks, holes, cracks, corrosion, deterioration)		X	
Location(s):			
Summary of Issues:			
Mark and Brown his			
Maintenance Recommendations:			
When will Recommendations be Completed:			
Supplemental Photos & Descriptions Attached – Section 2			

3. Were any of the following serious problems observed? (if yes, please attach a photo or a sketch)	YES	NO	N/A
Seepage (and/or evidence of piping)	Х		
Location(s):			
Dike D			
Summary of Issues:			
Seepage occurred in a number of areas in Harrison Mills from the Harrison River d	uring 20	12 freshe	∍t.
Water levels were significantly high and sustained in 2012. Seepage was more pre-	valent ir	2012;	
however, it does occur throughout the District each year during the freshet.			
Maintenance Recommendations:			
Continued monitoring of seepage			
Ensure the availability of backup pumps			
When will Recommendations be Completed: During the next annual freshet			
Erosion	Х		
Location(s):			-
Dike D			
Summary of Issues:			
Erosion and loss of material occurred on Dike D near Kilby Campground and through	gh Scow	litz Rese	erve
due to high sustained flows during the 2012 freshet			
Maintenance Recommendations:			
Tree removal and rip rap placement at Kilby adjacent to Kilby provincial Park			
Monitoring at Scowlitz			
When will Recommendations be Completed: Post Freshet			
Slumping, cracking, sink holes		X	
Location(s):			
Summary of Issues:			
Maintenance Recommendations:			
When will Recommendations be Completed:			

	YES	NO	N/A
Animal Damage (beavers, animal burrows, cattle, etc.)		Х	
Location(s):			
Summary of Issues:			
Maintenance December detices			
Maintenance Recommendations:			
When will Recommendations be Completed:			
Unauthorized construction (excavations, utilities, structures)	10 x 10 x	Х	
Location(s):	I		L.,
Summary of Issues:			
Maintenance Recommendations:			
When will Recommendations be Completed:			
Channel infilling and aggregation	X		
Location(s):			
Fraser River, Harrison River (especially prevalent at the confluence)			
Summary of Issues:			
Higher flows, increased seepage due to the addition of sand and gravel deposits in	the rive	r.	
Maintenance Recommendations:			
Remove gravel and sand in effected areas.			
When will Recommendations he Completed Provincial Living Heller			
When will Recommendations be Completed: Provincial jurisdiction			

	YES	NO	N/A
Significant flood levels (within free board) within the last 12 months		Х	
Location(s):			
Summary of Issues:			
Maintenance Recommendations:			
When will Recommendations be Completed:			
Supplemental Photos & Descriptions Attached – Section 3			
Section 3			
4 Vagetation Management			
4. Vegetation Management		v	
Hampers or prevents access? Location(s):		X	
Location(s).			
Summary of Issues:			
Cuminary of 1650ccs.			
Maintenance Recommendations:			
When will Recommendations be Completed:			
Reduces visibility to each toe?	X	33727	
Location(s):			
East end of Dike D from last gate to mountain			
Dike D - Kilby Campground area			
Dike A and Dike B			
Summary of Issues:			
Portions of all dikes listed have trees and/or shrubs restricting visibility			
Maintenance Recommendations: remove trees and shrubs			
When will Recommendations be Completed: Vegetation management is ongoing w	ith secti	ons of D	ike D
completed in 2012.			

Trees in or near dike (within 2m from toe) with potential for uprooting? ocation(s):	X		l
			2000
large trees near north end just outside dike bank between Cuthbert and McD	onald Road	s (Photo	graph
laintenance Recommendations: Tree and root removal; dike rehabilitation ned	cessary due	to large	root
ystems	,		
hen will Recommendations be Completed: When additional funding is in place Multi-year vegetation management plan in place?	ce X		
not, please discuss how one will be put into place:			10000

Notes on using this Check List:

- 1. This check list can be used as an outline for your comprehensive report.
- 2. Use the dike names and GPS Numbers on the provincial database (on web page or as shown on green sheet enclosed with mail out).
- 3. When referring to specific locations use:
 - · Chainages from the O&M manual drawings,
 - · Major landmarks (roads, bridges, etc.),
 - · And if possible, GPS coordinates.
 - · Please do not use local property names.

Appendix B Photographs



Photograph 1. Looking south on Dike D at the approximate location of Station 0+00 (May 8, 2013)

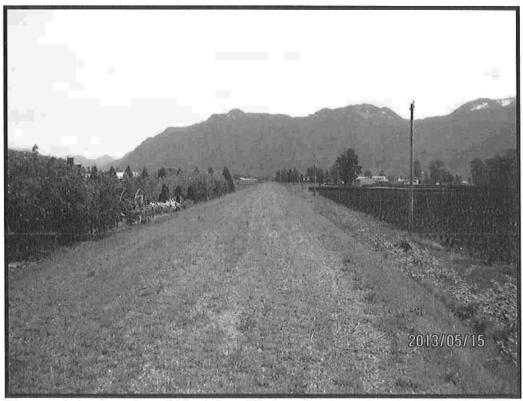


Photograph 2. South view of Dike A where three large trees are growing in the dike between Stations 20+00 and 73+20. (May 15, 2013)

Appendix B: Site Photographs District of Kent; 2013 Annual Ditch Maintenance



Photograph 3. Southwest view of Dike A near Station 73+20 (May 15, 2013)



Photograph 4. East view of Dike A from Whelpton Road crossing (May 15, 2013)



Photograph 5. Looking east at Dike A towards Station 193+23 (May 15, 2013)



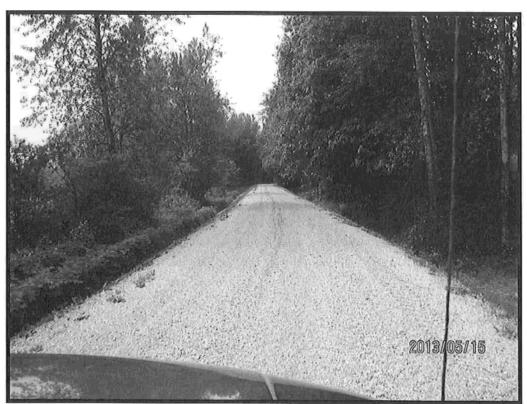
Photograph 6. West view of Dike B near the dike and Tuyttens Road crossing (May 15, 2013)



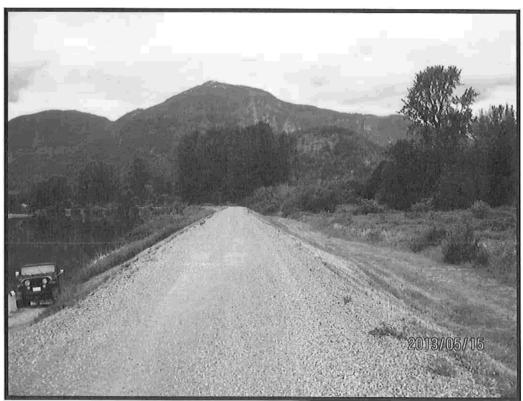
Photograph 7. Looking west at Dike C from the Hamilton Road crossing (May 15, 2013)



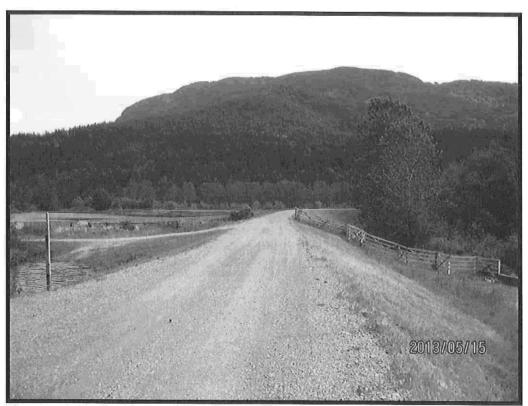
Photograph 8. Looking northwest at Dike C from Station 53+00 (Limbert Road). (May 15, 2013)



Photograph 9. Looking west at Dike D between Stations 0+00 and 74+00 (May 15, 2013)



Photograph 10. Northwest view of Dike D north of Station 74+00 (May 15, 2013)



Photograph 11. Looking northeast at Dike D from the Duncan-Bateson Pump Station (Pump Station 19) May 15, 2013.

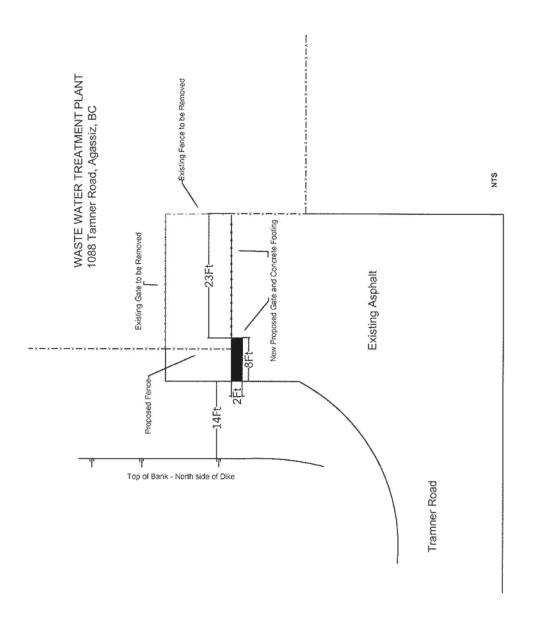
DIKE MAINTENANCE ACT APPROVAL - APPLICATION FORM

PART 1. CONTACT INFORMATION		
Name of Applicant:		Applicant File Number (if applicable):
District of Kent		
Name of Applicant Contact or Agent:		
Mathew Connoll	1	
E-mail Address of Contact:	trict.K+	ent. bc.ca
Home Phone: Business Phone: (604) 796	Fax No. 2 Z 3 S (umber:
Mailing Address for Correspondence from Mir	nistry of Environ	ment:
7170 Cheam avenue		
agassiz, BC, VOM IMO		
	Postal	Code: VSM (MO
Applicant or Agent's Signature(s):		Date:
		June 10/2010
NOTE: The purpose of this form is to highlight this applic key aspects of the project and to prioritize the application application, please read the preceding Approval Process	accordingly. For mo	to allow Ministry staff to both understand the are information on the processing of this
PART 2. EXISTING CONDITIONS		
Name of Dike and responsible Diking Authority (frowlapwww.gov.bc.ca/wat/flood/pdfs_word/dikesrive)	The state of the s	,
Exact Location of Proposed Works (Chainage spec wlapwww.gov.bc.ca/wat/flood/maps.html#lmd_dike srmapps.gov.bc.ca/apps/wlap_wrbc/;	emaps or UTM Co	os at ordinates from
591418 545308	7	
Adjacent Water Body(source of flooding):	aser Ri	WIL
PLEASE RETAIN A COPY OF TH	IS APPLICATIO	N FOR YOUR RECORDS
FOR OFFICE USE ONLY		
Date Ministry Received Application:	Diking Author	ity File Number:
	Priority/Deadl	ine:
Preliminary Review and the Initial Applica (date)	nt Consultation	Complete on: -
Comments:		

File: DMA Approvals App Form.doc

DIKE MAINTENANCE ACT APPROVAL - Application Form

PART 3. PROPOSED WORKS
Briefly describe your proposed works:
Installation of security gates
Provide a proposed construction schedule & note any constraints/milestones if important:
asap -> Waiting on approval
Briefly describe your approach to ensure the integrity of existing flood protection system(s) is not compromised by the installation of the works:
Will be on existing aspect
Will BE ON EXISTING SISPACE
Have you referred to the 'Provincial Design and Construction Guide' in your design? Yes of No (circle one) Are there any exceptions to this guide? Yes or No (circle one)
If yes, how and why have you deviated?
PART 4. REQUIRED ATTACHMENTS
Check off attachments to this application form:
☐ General Location Plan
□ Detailed Site Plan Preliminary Design Drawings and Specifications
Design Brief
☐ Previous correspondence regarding this site from the Ministry
If any required attachments are not included, please explain why.
Only building a gate:
any barrang a good.
,
Have you included attachments not listed above? Please list them below.
thotographs of area
Note: Please forward a copy of this application to the appropriate Deputy Inspector of Dikes office as specified at
0





June 17, 2010

Our File: 35050-20/DIOD/10KENTDIST01

District of Kent 7170 Cheam Avenue P.O. Box 70 Agassiz BC V0M 1M0

Attention: Matthew Connolly

Re: Application for the Installation of a Security Gate and Concrete Footing on the Kent 'A' Dike, District of Kent, BC – Deputy Inspector of Dikes Review.

1.0 Introduction

This is in regards to an application submitted to our office June 14, 2010 by you on behalf of the District of Kent requesting approval under Section 2 (4) of the *Dike Maintenance Act* (DMA) to install a gate and a concrete footing on the Kent 'A' Dike, in the vicinity of dike station 95+00¹.

2.0 Reference Materials

We have reviewed your correspondence including the following:

 A competed Dike Maintenance Act application form accompanied by a sketch of the proposed work and photographs of the site.

As well, reference has been made to the following Fraser River Flood Control Program As-built drawing for Project No. 1 – District of Kent prepared by Willis Cunlife Tait & Company Ltd.:

Drawing No.	Sheets	Title	Rev	Rev. Date
4758-2-3-IN	3 of 16	Contract No.2 Dyke Reconstruction Section A	As-Constructed	February
		+ 1		1975

3.0 Summary of the Proposed Works

The proposed works include the construction of a new security gate and a concrete footing (8 feet long by 2 feet wide) at the Waste Water Treatment Plant, 1088 Tamner Road, Agassiz, BC. The concrete footing will require the excavation of a 2 feet deep trench. A section of the existing gate will also be removed as indicated in the referenced sketch.

¹ Refer to the following link to dike inventory map for Kent #28 for dike stationing; http://www.env.gov.bc.ca/wsd/public_safety/flood/maps/kent_28.pdf

4.0 Approval

This letter constitutes approval under the *Dike Maintenance Act* for the above noted works subject to the terms and conditions set forth below:

General

1. The approval shall remain valid until December 1, 2010.

Design and Construction

- The design and construction standards for the works should conform, where possible, to the 'Dike Design and Construction Guide – Best Management Practices for British Columbia July 2003²
- Construction shall be scheduled to avoid elevated water levels that occur during the annual freshet to ensure public safety is not compromised.
- 4. The works shall not result in any long term obstruction to equipment access along the dike.

Quality Control and Assurance

5. Any damage to the dike (ancillary or otherwise) caused by the construction shall be restored to equal to or better than its former or original state.

Note: The Inspector of Dikes office shall receive written notification of a proposed schedule to complete the works if the works are not substantially complete by the approval expiry date. The Inspector of Dikes office, at its discretion, may grant a time extension and/or may initiate a further review of the project. This may result in amendments to approval requirements or require a new application and approval.

Please note that the above approval pertains only to the Dike Maintenance Act and does not apply to any approvals, licenses or authorizations that may be required by our ministry or other approving agencies.

If you require further information, please contact me at 604.582.5220.

Sincerely

Scott Cosman, P.Eng.

Deputy Inspector of Dikes

AS/-

cc:

Neil J. Peters, P.Eng., Inspector of Dikes

A downloadable copy is available from the Flood Hazard Management webpage http://www.env.gov.bc.ca/wsd/public_safety/flood/structural.html





current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION

© Latitude Geographics Group Ltd.

Mahon, Claudia FLNR:EX

From: Matthew Connolly <MConnolly@district.kent.bc.ca>

Sent: Monday, April 25, 2016 9:34 AM

To: Bristol, Mike FLNR:EX

Cc: Mick Thiessen; Matthew Connolly
Subject: RE: Unauthorized Dike Works

Hi Mike,

In follow-up to our telephone conversation, I spoke with \$.22

told me he went over the dike with an excavator but didn't do any actual excavation in or around the dike. The caps we see in the pictures are new caps but they are connected to an existing line.

As there was no actual excavation or damage to the dike it looks like it was a false alarm and there is nothing more needed to be done.

Any questions please let me know.

Regards,

Matthew Connolly

Environmental and Engineering Services Coordinator District of Kent PO Box 70 - 7170 Cheam Ave Agassiz, BC

Office: 604-796-2235 Fax: 604-796-9854

----Original Message-----

From: Bristol, Mike FLNR:EX [mailto:Mike.Bristol@gov.bc.ca]

Sent: Thursday, April 21, 2016 4:11 PM

To: Matthew Connolly < MConnolly@district.kent.bc.ca >

Subject: RE: Unauthorized Dike Works

Hi Matt,

We'd like to understand more about this situation. I know you're trying to get more info....

Just to let you know, I will be away tomorrow and back on Monday (and you were away today).

Regards

Mike

Mike Bristol

Deputy Inspector of Dikes

Flood Safety Section

South Coast Region

Ministry of Forests, Lands and Natural Resource Operations Surrey

Tel 604 586-5642

-----Original Message-----

From: Matthew Connolly [mailto:MConnolly@district.kent.bc.ca]

Sent: Tuesday, April 19, 2016 3:30 PM

To: Bristol, Mike FLNR:EX

Cc: Pattle, John R FLNR:EX; Mick Thiessen; Matthew Connolly

Subject: Unauthorized Dike Works

Hi Mike,

We've uncovered some additional work on the dike that I'm assuming your office wasn't aware of. I've left a message for the owner trying to find out what was done but it looks like they've put pipes through the dike.

I've attached some photos and a location map. I'll follow up when I get additional information.

Regards,

Matthew Connolly

Environmental and Engineering Services Coordinator District of Kent PO Box 70 - 7170 Cheam Ave Agassiz, BC

Office: 604-796-2235 Fax: 604-796-9854

-----Original Message-----

From: Chris Hardy

Sent: Tuesday, April 19, 2016 1:19 PM

To: Matthew Connolly < MConnolly@district.kent.bc.ca>

Subject:

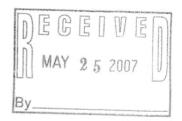
May 22, 2007

District of Kent P.O. Box 70 Agassiz, BC

VOM 1A0

Attention: Mr. Mick Thiessen, A.Sc.T.

Operations Manager



File: 14-123-6

FRASER RIVER DYKES - GEOTECHNICAL ASSESSMENT

Dear Sirs:

This letter hereby summarizes the results of the inspection carried out on May 4 with you and (part-time) Mr. Larry Burke to assess the condition of the dykes and the improvements being carried out. Our comments are as follows:

- Dykes A, B, C and D shown on the Ministry of Environment's 1:25,000 scale maps were inspected. All Dykes were inspected by vehicle except for a 1.5 km section east of the Hammersley Pump Station, which was traversed on foot to observe the tie-in of the dyke and the CPR embankment, and intermittent stops to inspect particular dyke locations.
- Dykes A, B and C were in generally good condition and, according to the profiles provided, had a crest elevation above the design flood elevation. In the case of Dyke C, the dyke crest generally provided the 0.6 m freeboard required above flood level.
- 3. Dyke D was in the process of being raised to provide freeboard using pit-run gravel from the District's pit overlain by a running surface of crushed gravel. The Dyke crest was not widened except for spilling of the crushed gravel over the upper slope. The additional fill was being compacted by a vibratory roller on the crest and by a hoe-pac on the slope. This procedure will provide a satisfactory dyke except in the event that the flood level rises to allow the recently placed gravel to be attacked by the current. Depending on the velocity, the gravel may be eroded and the crest width reduced. Emergency repairs using larger crushed material (minus 150 mm, or even riprap) may be necessary

E file: a_ds_let_geotechnical assessment.doc

Page 1 of 2



We trust this is sufficient for your present needs. If we can be of further assistance, please do not hesitate to contact us.

Yours very truly, Thurber Engineering Ltd.

D. Smith, P.Eng. Principal

DS/cw

Client: District of Kent File No. 14-123-6

E file: a_ds_let_geotechnical assessment.doc

Date: May 22, 2007

Page 2 of 2

35A50-20/DIOD/Kentdat/Gen

Cosman, Scott B FLNR:EX

From:

Cosman, Scott B FLNR:EX

Sent:

Tuesday, May 15, 2012 1:22 PM

To: Subject: 'Matthew Connolly' RE: Dike Gates

Hi Matthew

There is no way to approve an existing installation after the fact. The Dike Maintenance Act only allows for "prior written approval". That said, based on the sketches and photos our office would not have any objections to the gate provided District of Kent has a key for emergency response and provided that the District of Kent is prepared to accept the gate. I would also suggest that you communicate to the land owner that he should have gotten approval under the Act prior to installing the works as this was a legal requirement.

Scott Cosman, P.Eng.
Dike Safety Specialist
Ministry of Forests, Lands, and Natural Resource Operations
Ph (604) 582-5220
Fax (604) 582-5235
Scott.Cosman@gov.bc.ca
http://www.env.gov.bc.ca/wsd/public_safety/flood/fhm-2012/safety_index.html
10470-152 Street, Surrey B.C.
V3R OY3

From: Matthew Connolly [mailto:MConnolly@district.kent.bc.ca]

Sent: Tuesday, May 15, 2012 12:23 PM

To: Cosman, Scott B FLNR:EX Subject: RE: Dike Gates

Yes they were. We've done our dike inspection through the area already.

From: Cosman, Scott B FLNR:EX [mailto:Scott.Cosman@gov.bc.ca]

Sent: Tuesday, May 15, 2012 12:15 PM

To: Matthew Connolly **Subject:** RE: Dike Gates

Hi Matthew.... the lock blocks shown in the picture; were they removed after the concrete was cured?

Scott Cosman, P.Eng.
Dike Safety Specialist
Ministry of Forests, Lands, and Natural Resource Operations
Ph (604) 582-5220
Fax (604) 582-5235
Scott.Cosman@gov.bc.ca
http://www.env.gov.bc.ca/wsd/public_safety/flood/fhm-2012/safety_index.html
10470-152 Street, Surrey B.C.
V3R OY3

From: Matthew Connolly [mailto:MConnolly@district.kent.bc.ca]

Sent: Tuesday, May 15, 2012 11:50 AM

To: Cosman, Scott B FLNR:EX

Subject: Dike Gates

Hi Scott,

s.22

we've resolved some land-use/ownership issues and now I need to know how I can get approval for the gates post-installation from your office. I've attached some information with pictures and measurements provided by our public works foreman.

Can you let me know what else, if anything you'd need?

Regards,

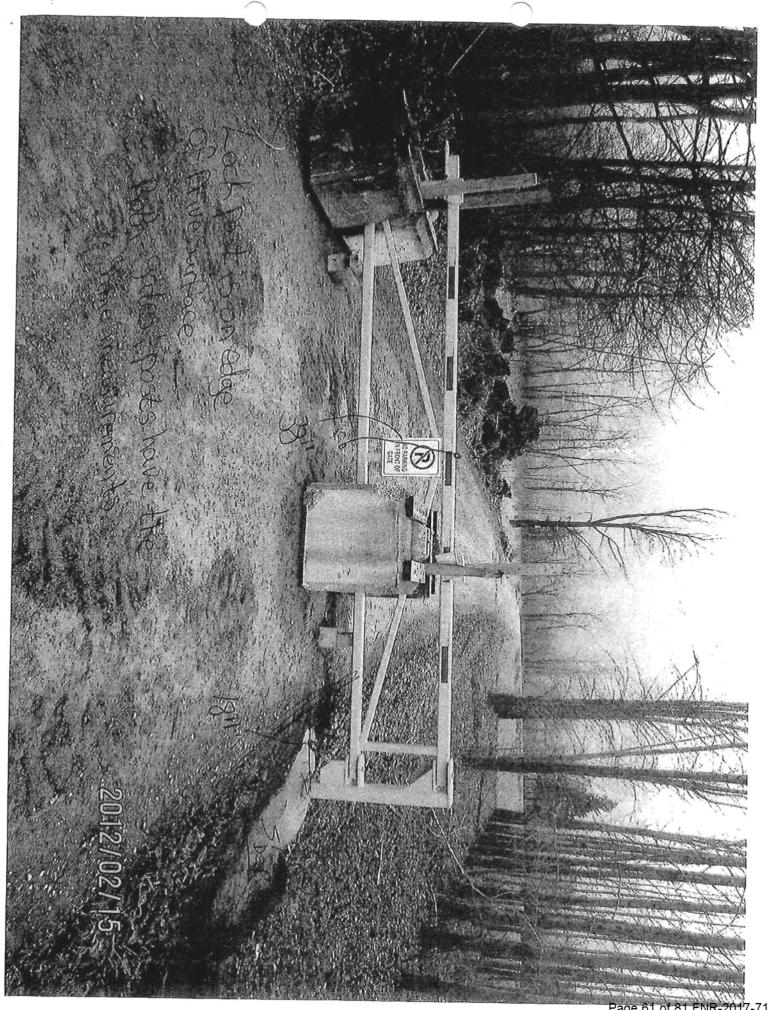
Matthew Connolly, EP Environmental and Engineering Services Coordinator Office: 604-796-2235 Fax: 604-796-9854

Pax: 604-796-98 District of Kent

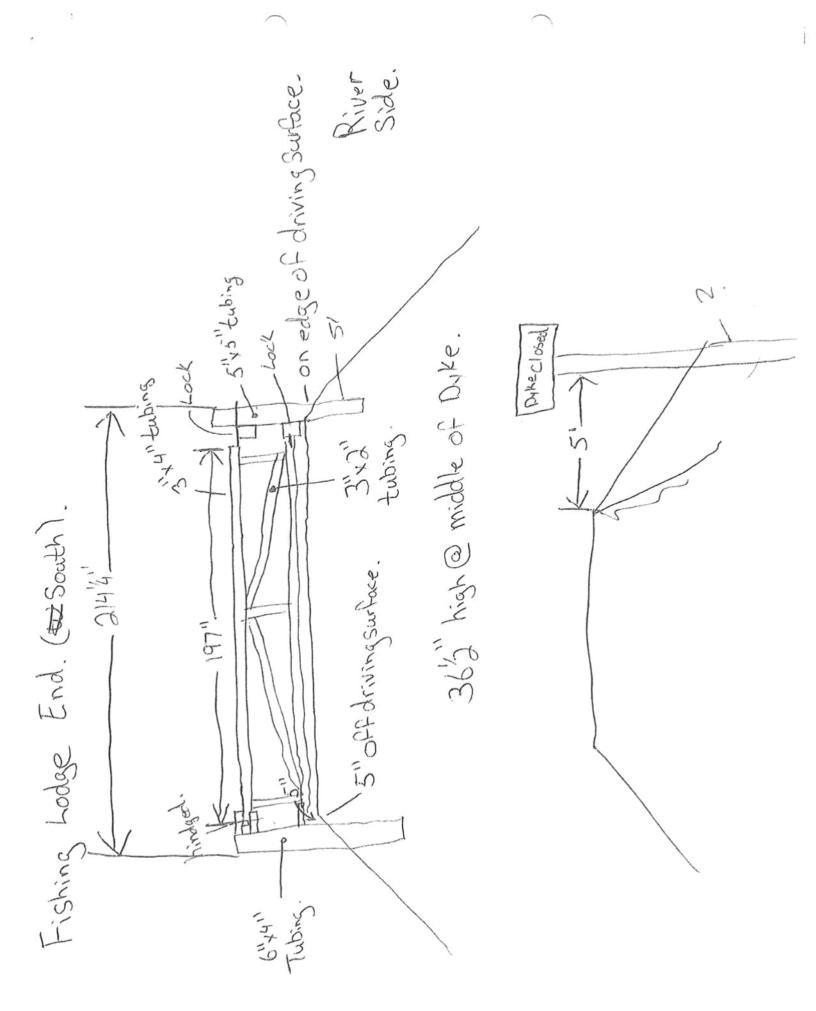


Dike Maintenance Application

Applicants Name: Applicants Address: Applicants Phone number:
I. The date the gates were installed:
FEBRUARY 14th, 2012
2. The approval process that you undertook for installing the gates: IN MAY ZOUE, S.22 CHOST NOT TO HAVE THE CATES INSTALLED AND NO FORMAL APPLICATION WAS COMPLETED.
TO REDUCE AND CONTROL UNAUTHORIZED ACCESS, DUMPING GARBAGE DISPOSAL, DAMAGE TO DIKES AND AD TREENT PRIVATE PROPERTY.
The material used in constructing the gates (be specific as possible and include a sketch outlining dimensions and depth of concrete): SQUARE & ROWD PATINTED METAL TUBING INCLUDING POSTS, LATCHES, HINGES, ALL ASSOCIATED HARDWARE AND CONCRETE BASES. (SEE ATTACHED SKETCH)
i. Confirmation that you are allowing public access, and the width of public access you are agreeing to provide \$
By signing below s.22 and his affiliated agents and family agrees that the above noted information is true:
Pated this day of, 2012.
Print Name: Witness
Signature:
Please return the completed form to: Mr. Kerry Hilts, District of Kent at 7170 Cheam Avenue, Agassiz,



Page 61 of 81 FNR-2017-71625



Page 63 to/à Page 64

Withheld pursuant to/removed as

DUPLICATE

	rm to the Inspector of Dikes by	ilon
Ma	y 31, 2008	
CONFIRMATION OF AN	NUAL DIKE INSPECTION 2008	9/1
Office of Inspector of Dikes Lower Mainland Regional Office Water Stewardship Division Ministry of Environment 10470 - 152nd St Surrey, BC V3R 0Y3 FAX: (604) 582-5235	Matthew Connolly District-Of Kent P.O. Box 70 Avenue 7170 Cheam Avenue Agassiz, B.C.	13
If NO, please provide updated details belocase of flood emergencies): Mick Thiessen, Directo 7170 Cheam avenue, Agas Mobile: 604-819-1956 3. If you have any additional comments or sustructure, please indicate them below:	ion Works Database, you are the diking authority e above label correct? YES NO we - (this information assists provincial agencies in	
Submitted by:	Date:	

MI			RE	T
JUL	2	8	2009	

Dike Name (From database) Kent Dykes GPS No. (data) Water Courses	base)	801	7
Date Inspected April 9/09 Signed	Ha	rrison	Mills
For sections 1-4, please check the applicable box. If you check the You detail below or on attachments. Please also refer to "Flood Protection of Guide" from March 2000 for a detailed guide to dike inspection and report http://www.env.gov.bc.ca/wsd/public safety/flood/pdfs word/fld protections.	Works In: ting, ava ot insp	spection	n
1. Is there any obstruction, deterioration or damage to dike access? (access routes, ramps, and gates)	YES	NO	N/A
			1
2. Is there any deterioration or damage to the following?	YES	NO	N/A
 Dike Crest and slopes (ruts, loss of surfacing material, obstructions, slumping, cracking) 		V	
David David and the second sec		,	
Bank Protection (loss of rock, settlement, slumping)			
Flood Royce/Dump station (i. b. th. ii.			
 Flood Boxes/Pump stations (inlet/outlet channels, gate operation, trash racks, debris, erosion, corrosion, structure, mechanical components) or damage to dike access?(access routes, ramps, and gates) 		/	
Were any of the following serious problems observed? (if yes, please attach photo or sketch)	YES	NO	N/A
Seepage (and/or evidence of piping)	1	/	
		- L	
Erosion		H	
Shimping arealting to the			
Slumping, cracking, sink holes		V	
Animal Damage (beavers, animal burrows, cattle, etc.)		71	
		1	
Unauthorized construction (excavations, utilities, structures)		/	
Channel infilling and aggregation		1	
Cianificant and the second and the s			
Significant flood levels (within free board) within the last 12 months		V	

	pase) Kaint To fra	0.00			
Water Courses	Francisco Proposition	GPS No. (databas	se)	08	
Date Inspected	Fraser River, Harris	on River Dike Section	A	and	P
	april 7/09	Signed	p (ano	D
For sections 4.4	, ,		M		
in detail below or on	lease check the applicable be attachments. Please also refer	X. If you check the Year			
Guide" from March 2	attachments. Please also refer 000 for a detailed guide to dike	to "Flood Protection We	box, p	lease e	xplain
http://www.env.gov	attachments. Please also refer 000 for a detailed guide to dike .bc.ca/wsd/public_safety/floo	inspection and reporting	d. avai	ilahla a	n •
		The world will have	insp	ad.pdf	
routes, ramps, and gates)	ction, deterioration or damage t	o dika			
, and gates)	a annage t	o dike access? (access	YES	NO	N/A
		Г		/	T
2. Is there any deterior	ration or d				
Dike Creet and also	ation or damage to the followin	g?	YES	NO	A1/A
- The Grest and Slope	es (ruts, loss of surfacing material, obstruc	ctions, slumping, cracking)		NO	N/A
		, stamping, cracking)			
 Bank Protection (loss 	s of rock, settlement, slumping)			/	
	, samping)				
Flood Boxes/Pump of	tations (inlet/outlet channels, gate				
racks, debris erosis	lations (inlet/outlet channels, gate				
accins, crosing	Correction of	operation, trash		_	_
damage to dike acces	n, corrosion, structure, mechanica	operation, trash I components) or		1	
damage to dike acces	lations (inlet/outlet channels, gate n, corrosion, structure, mechanica ss?(access routes, ramps, and ga	operation, trash I components) or tes)		1	
damage to dike acces	ss?(access routes, ramps, and ga	tes)			
damage to dike acces	ss?(access routes, ramps, and ga	tes)			
Were any of the follow	ss?(access routes, ramps, and ga	tes)	ES	NO.	N/A
damage to dike acces	ss?(access routes, ramps, and ga	tes)	ES (NO NO	N/A
Were any of the follow tach photo or sketch) Seepage (and/or evide	ss?(access routes, ramps, and ga	tes)	ES	NO NO	N/A
Were any of the follow	ss?(access routes, ramps, and ga	tes)	ES	NO NO	N/A
Were any of the follow tach photo or sketch) Seepage (and/or evide	ss?(access routes, ramps, and ga	tes)	ES	NO	N/A
Were any of the follow tach photo or sketch) Seepage (and/or evide	ring serious problems observed	tes)	ES	NO	N/A
Were any of the follow tach photo or sketch) Seepage (and/or evide	ring serious problems observed	tes)	ES	NO	N/A
Were any of the follow tach photo or sketch) Seepage (and/or evide	ss?(access routes, ramps, and gaving serious problems observed ence of piping)	tes)	ES	NO	N/A
Were any of the follow tach photo or sketch) Seepage (and/or evide	ss?(access routes, ramps, and gaving serious problems observed ence of piping)	tes)	ES	NO I	N/A
Were any of the follow tach photo or sketch) Seepage (and/or evide Erosion Slumping, cracking, sind	ss?(access routes, ramps, and gar ving serious problems observed ence of piping) k holes , animal burrows, cattle, etc.)	tes)	ES (NO	N/A
Were any of the follow tach photo or sketch) Seepage (and/or evide Erosion Slumping, cracking, sind	ss?(access routes, ramps, and gar ving serious problems observed ence of piping) k holes , animal burrows, cattle, etc.)	tes)	ES (No	N/A
Were any of the follow tach photo or sketch) Seepage (and/or evide Erosion Slumping, cracking, sind	ss?(access routes, ramps, and gaving serious problems observed ence of piping)	tes)	ES (NO I	N/A
Were any of the follow tach photo or sketch) Seepage (and/or evide Erosion Slumping, cracking, sin Animal Damage (beavers) Unauthorized construction	ss?(access routes, ramps, and gar ving serious problems observed ence of piping) k holes , animal burrows, cattle, etc.)	tes)	ES (NO I	N/A
Were any of the follow tach photo or sketch) Seepage (and/or evide Erosion Slumping, cracking, sind	ss?(access routes, ramps, and gar ving serious problems observed ence of piping) k holes , animal burrows, cattle, etc.)	tes)	ES (NO I	N/A
Were any of the follow tach photo or sketch) Seepage (and/or evide Erosion Slumping, cracking, sind Animal Damage (beavers) Unauthorized construction Channel infilling and aggreeaters	ss?(access routes, ramps, and garding serious problems observed ence of piping) k holes animal burrows, cattle, etc.) on (excavations, utilities, structures)	I? (if yes, please	ES (NO I	N/A
Were any of the follow tach photo or sketch) Seepage (and/or evide Erosion Slumping, cracking, sind Animal Damage (beavers) Unauthorized construction Channel infilling and aggreeaters	ss?(access routes, ramps, and gar ving serious problems observed ence of piping) k holes , animal burrows, cattle, etc.)	I? (if yes, please	ES (NO I	N/A

Dike Name (From database) Water Courses GPS No.	(database	e)	08	
Date Inspected Trose River Harrison Dike Sect		0	1.0	
April 8/09 Signed		DI	ke	B
		l	l ,-	
For sections 1-4, please check the applicable box. If you check the Guide from March 2000 for a detailed march also refer to "Flood Protect"		1		
Guide" from March 2000 Please also refer to "Flood Please also refer to "Flood Please"	he Yes I	box, pl	ease	explain
in detail below or on attachments. Please also refer to "Flood Protect Guide" from March 2000 for a detailed guide to dike inspection and rehttp://www.env.gov.bc.ca/wsd/public_safety/flood/pdfs_word/flood	tion Wo	rks Ins	pectio	on
word/flood/pdfs word/flood/pdfs word/flood/pdfs word/flood/pdfs	eporting	i, avail	able a	at:
1. Is there any obstruction, deterioration or damage to dike access? (acroutes, ramps, and gates)	prot	insp c	id.pd	<u>f</u>
routes, ramps, and gates) deterioration or damage to dike access? (ac	ccess	YES	NO	
	_		70	N/A
		,		
2 lo the				
Is there any deterioration or damage to the following? Dike Crest and all.				
Dike Crest and slopes (ruts, loss of surfacing material, obstructions, slumping, cracking)	1	ES	NO/	N/A
gracking material, obstructions, slumping, crackin	ig)	-	/	-
Bank Protection (loss of rock, settlement, slumping)			/	
		_ 1	/	
Flood Boxes/Pump stations (in L.)				
racks deb.: amp stations (injet/outlet channels gets				
Flood Boxes/Pump stations (inlet/outlet channels, gate operation, trash damage to dike asset (corresion, structure, mechanical company).		T	71	
racks, debris, erosion, corrosion, structure, mechanical components) or damage to dike access?(access routes, ramps, and gates)		-		
or production of the access? (access routes, ramps, and gates)		-		
or components or carried to dike access?(access routes, ramps, and gates)		-		
B. Were any of the following serious problems observed? (if yes place)	VE	S		
Were any of the following serious problems observed? (if yes place) ttach photo or sketch)	YE	SN	0/	N/A
or point of the access? (access routes, ramps, and gates)	YE	SN	0	N/A
Were any of the following serious problems observed? (if yes place) ttach photo or sketch)	YE	SN	0	N/A
3. Were any of the following serious problems observed? (if yes, please seepage (and/or evidence of piping)	YE	SN	0	N/A
B. Were any of the following serious problems observed? (if yes, please seepage (and/or evidence of piping) Erosion	YE	S N	0/	N/A
3. Were any of the following serious problems observed? (if yes, please seepage (and/or evidence of piping)	YE	SN	0/	N/A
B. Were any of the following serious problems observed? (if yes, please statch photo or sketch) Seepage (and/or evidence of piping) Erosion Slumping, cracking, sink holes	YE	S N	0/	N/A
B. Were any of the following serious problems observed? (if yes, please statch photo or sketch) Seepage (and/or evidence of piping) Erosion Slumping, cracking, sink holes	YE	S N	0/	N/A
B. Were any of the following serious problems observed? (if yes, please seepage (and/or evidence of piping) Erosion	YE	S N	0/	N/A
B. Were any of the following serious problems observed? (if yes, please attach photo or sketch) Seepage (and/or evidence of piping) Erosion Slumping, cracking, sink holes Animal Damage (beavers, animal burrows, cattle, etc.)	YE	S N	0/	N/A
B. Were any of the following serious problems observed? (if yes, please attach photo or sketch) Seepage (and/or evidence of piping) Erosion Slumping, cracking, sink holes Animal Damage (beavers, animal burrows, cattle, etc.)	YE	S N	0/	N/A
B. Were any of the following serious problems observed? (if yes, please attach photo or sketch) Seepage (and/or evidence of piping) Erosion Slumping, cracking, sink holes Animal Damage (beavers, animal burrows, cattle, etc.) Unauthorized construction (excavations, utilities, structures)	YE	S N	0/	N/A
B. Were any of the following serious problems observed? (if yes, please attach photo or sketch) Seepage (and/or evidence of piping) Erosion Slumping, cracking, sink holes Animal Damage (beavers, animal burrows, cattle, etc.) Unauthorized construction (excavations, utilities, structures)	YE	S N	0/	N/A
B. Were any of the following serious problems observed? (if yes, please attach photo or sketch) Seepage (and/or evidence of piping) Erosion Slumping, cracking, sink holes Animal Damage (beavers, animal burrows, cattle, etc.)	YE	S N	0/1	N/A
B. Were any of the following serious problems observed? (if yes, please attach photo or sketch) Seepage (and/or evidence of piping) Erosion Slumping, cracking, sink holes Animal Damage (beavers, animal burrows, cattle, etc.) Unauthorized construction (excavations, utilities, structures) Channel infilling and aggregation	YE	S N	0/1	N/A
B. Were any of the following serious problems observed? (if yes, please attach photo or sketch) Seepage (and/or evidence of piping) Erosion Slumping, cracking, sink holes Animal Damage (beavers, animal burrows, cattle, etc.) Unauthorized construction (excavations, utilities, structures)	YE	S N		N/A

DyRe Inspection

2009/04/07

LOWER MAINLAND MEGION

Scott Rd to Cuthbert Rd.

Cuthbert Rd to McDonald Rd

J Duter slope of dyka at Jokes gate, regetation

Nemoved from outer slope for 15 meters. Gravel and Sand

piled against outer slope upstream of McDonald Rd

McDonald Rd to Tranmer Rd

No access through this section. All appears of
in fishing lodge property. Some inner slope damages
from horses at Tranmer Rd end.

Tranmer Rd to Bridge Rd

Electric fence along inner crest below Transer

Gate at Appel Rd, east side needs repair

Dyke O.A. Gote repaired

Appel Rd to Bridge Rd

Bridge Rd to whelpton
All o.R. with dyke, Gote repair needed at
whelpton. Gate repaired
whelpton Rd to Hwy9
All o.R.

Hwy #9 to Bantels Mth
Gate repair needed at Hwy #9 Gate repaired
Flood boxes and flood gates o.k., dyke opage 69 of 81 FNR-2017-71625

2009/04/08 Bartels Htm to Hopyand Mtm. Dyke o.k. Flood box and gate o.k. Hopgard Mtn to Homilton Rd Needs sunfacing and grading. Sunfaced & graded Hemilton Rd to Limbert Rd

Minor damage to rivert side slope from vehicles
in two locations, Surface grading accided.

Grading completed Shimbert Rd to CPR track Blow down cottonwood at con end. Small hot & track to be reserded by former.

Need to replace gote posts and lock gate at himbert Rd

Gate posts replaced, gate locked CPR track to woodside Mtm Dyke o.k. Flood boxes and flappers o.k Woodside Mtn to CPR (Horrison Mills) All OR. CPR track to Scowlitz Debris on dyka All ok Scowlitz to CPR Dyke o.k. flood boxes + gates o.k. CPR to Kilby PN

Kilby Rd to Lougherd Hwy
Flood boxes and Flappers e.k.

Dyke erosion on outside to e at Kilby pump
Station repaired. Need to seed with grass
Rip rap o.k. Dyke o.k. Lougheed Hwy to Mt Woodside
Tobate repair needed east end Latond property.

Dyke O.K. Not inspected east of
Bateson pump station due to construction

On Lyke. Gate repaired





LOWER MAINLAND REGION FILE NO.

April 30, 2009

Charge to Mick

File: 35050-20/Mailout 35050-20/IOD Dike Files

BC Diking Authorities
District of Kent
Larry Burk — Call to update
P.O. Box 70
Agassiz, BC VOM 1A0

Re: Annual Dike Inspection Reporting

g Freshet

As Inspector of Dikes, I am writing to provide information and advise you of important requirements that must be met to comply with the *Dike Maintenance Act* and to reduce risks from flooding. The requirements in this letter apply to all diking authorities, including those that may not be concerned with freshet flooding (i.e. diking authorities that have flood control works that protect primarily against flooding caused by heavy rainfall, high tides and storm surge, debris flow and/or other causes).

According to our most recent information, the above addressee is the diking authority contact person. If this is incorrect, please ensure that this letter is forwarded to the appropriate person in your organization.

2009 Snowpack and Freshet Flood Potential

The 2009 spring freshet has already arrived in some areas of the province and will continue over the next several weeks. The River Forecast Centre's (RFC) April 1st Snow Survey Bulletin noted: "Snow conditions across British Columbia at April 1st vary from below normal across the South Coast and South Interior (including the Okanagan, Similkameen, Kettle, Nicola, Kootenay), to near normal in the central interior (North Thompson, Nechako), and to above normal in the north (Upper Fraser, Peace, Skeena, Nass, Liard, Stikine).

The above normal snowpacks in portions of northern B.C., such as the Skeena/Nass, Stikine, Liard and Upper Fraser are likely to result in higher than normal stream flows during the freshet snowmelt period in late May and June. There is potential for higher than normal peak flows on some northern rivers, including the Upper Fraser River (McBride, Prince George, Quesnel); the Skeena River (Terrace); the Nass River; and in the Liard (Lower Post F.N.) and Stikine basins.

For the Fraser River through the Lower Mainland, current snow conditions suggest a lower than normal peak flow (in late May or early June), with a peak flow of the Fraser River at Hope potentially in the 8,000-9,000 cubic metres per second (m3/s) range. As comparison, the peak 2007 peak flow at Hope was 11,000 m3/s, and the 2008 peak flow was 10,500 m3/s. The North and South Thompson rivers and the Thompson River at Kamloops are most likely to experience near or slightly below normal peak discharge and water levels in late May or early June.

Ministry of Environment

Gorp S

Fin.

Bylaw

☐ FIRE ☐ Agents Place

RCMP In Carnera Date

Flood Safety Section -Management and Standards Branch

Mailing/Location Address; 10470 152 Street SURREY BC V3R 0Y3

Telephone: (604) 582-5200 Facsimile: (604) 582-5235 http://www.gov.bc.ca/ http://www.env.gov.bc.ca/wsd

Please mail or fax this form to the Inspector of Dikes by May 31, 2010



CONFIRMATION OF ANNUAL DIKE INSPECTION 2010

TO:	FROM:
Office of Inspector of Dikes South Coast Sub-Region Water Stewardship Division Ministry of Environment 2 nd Floor, 10470 - 152nd Street Surrey, BC V3R 0Y3	District of Kent Mr. Matthew Connolly Mr. Mick Thiessen P.O. Box 70 7170 Cheam Ave. Agassiz, BC V0M 1A0
TEL: 604 582-5200 FAX: 604 582-5235	TEL: 604 819-1956 CELL: FAX: E-MAIL: m.thiessen@district.kent.bc.ca
 Is your Annual (2010) Dike Inspection Co. If NO, please indicate expected completion If YES, please provide date of inspection: and attach the complete inspection report. 	mplete? YES NO n date:
contact person. Is all the information on the If NO, please provide updated details belowase of flood emergencies): Tel: 604-796-2. Cell: 604-819-195	w-(this information assists provincial agencies in 235 b (Mick Thiesser) district kent bc.ca
Submitted by:	Date: 4,011 30/2010

-	Dike Name (From database) Rent Dul (GPS No. (databas	se)	80	
١	Nater Courses Frasen, Harrison Rivers Dike Section	4	11	
[Date Inspected 200/04/07 Signed	H		
(<u>}</u>	For sections 1-4, please check the applicable box. If you check the Yes n detail below or on attachments. Please also refer to "Flood Protection Guide" from March 2000 for a detailed guide to dike inspection and reporting http://www.env.gov.bc.ca/wsd/public_safety/flood/pdfs_word/fld_protection.	Works ng, ava insp	Inspection in the second in th	tion :: -
r	. Is there any obstruction, deterioration or damage to dike access? (access outes, ramps, and gates)	YES	NO	N/A
		I		
2	. Is there any deterioration or damage to the following?	YES	NO	N/A
•	Dike Crest and slopes (ruts, loss of surfacing material, obstructions, slumping, cracking)	X		
_	Pork Protection (Inc. of male W		11.2	
_	Bank Protection (loss of rock, settlement, slumping)		IX_	
•	Flood Boxes/Pump stations (inlet/outlet channels, gate operation, trash racks, debris, erosion, corrosion, structure, mechanical components) or damage to dike access?(access routes, ramps, and gates)		X	
3. at	Were any of the following serious problems observed? (if yes, please tach photo or sketch)	YES	NO	N/A
•	Seepage (and/or evidence of piping)		V	
•	Erosion		X	
_				
•	Slumping, cracking, sink holes		\times	
•	Animal Damage (beavers, animal burrows, cattle, etc.)		X	
•	Unauthorized construction (excavations, utilities, structures)		X	
	Channel infilling and aggregation		× I	
7	Significant flood levels (within free board) within the last 12 months		X	

4. Vegetation Management	YES	NO	N/A				
Hampers or prevents access?		X					
Reduces visibility to each toe?	X						
Trees in or near dike (within 2m from toe) with potential for uprooting?	X						
Multi-year vegetation management plan in place?	X						
5. Describe maintenance work (including vegetation management) completed in the past 12 months: Dyke Mowing, removal of fill placed by farmer, minn grading							
6. Describe the work required in the next 12 months and the estimated schedule for completion:							
**************************************	ed Con	pletion	Date				
Mowing, minor marillenance, grading on	gine	}					
	V						
7. Please list inspection report attachments (photos, sketches etc.)							
Notes from Public Works Foren	an						

Notes on using this Flood Protection Inspection Report form:

- This form is an outline for your comprehensive report. Please include detailed descriptions of maintenance issues and attach supplemental information such as photos and sketches of critical repair sites.
- 2. Use a separate inspection form for each dike, or section of dike.
- When completing the inspection report, please use the dike name and GPS Number on the
 provincial database (on web page or as shown on green sheet enclosed with mail out). If you
 believe there are any errors or omissions in the database, please submit them with the inspection
 report.
- If you use more than one form for each dike, please indicate the dike section using chainage and/or major landmarks (roads, bridges etc). Please do not use local property names in the inspection report.

Dyke Inspection 2010/04/07 Scott Rd to Cuthbert Rd. Wood debrig living on outer slope across dyke from barn Surface, slopes, gates all o.k. Crethbert R& to McDonald Rd Gravel removed from dyke sight of way that was Stored by Jakes contracting, Need to reseed outer dyke slope McDonald to Tranmer Minor damage to top of slope at erest where horses crossing type just ups tream Tranmer to Appel Appel to Bridge Rd Nesed lock at Appel Dyke OR. Bridge Rd to Whelpton RV All ck. whelpton Rd to Agassiz Bridge need to remove fill off inner dyke slope Agossiz bridge to Little MFn Form gate at form by hwy difficult to pass Need to cut black berries at flapperage 76 of 81 FNR-2017-71625

gate on w. Vanderwyk farm (previous owner) Need to cut blackberries at flapper on flood box at Agossiz 51. No issues with dykt Little Min to Hopyand Min (Cutter Red)
Potholes near Hopyand Min, need grading Flood box and gate o.k. Dyke O.A. Hapyond Mtn do Hemilton Rd A11 at. Homilton Rd to Limbert Rd All or. Linbert Rd to CPR Gate at Limbert should be replace & Dyke of CPR to Hammersly 2010/04/15-Mt woodside to CPR (Duncons) Old Scowlitz Rd to CPR swing bridge flood gate and box o.k. CPR Bridge to Kilby fork Dyke G. R. Catepast at boat Aunch newage Afgraham. 2017-71625

Kilby Pork to School RN Pyre ck. Blow downs at 4 locations on outer slope Flood box-es & flood gates o.k. Rip rap ok. About so meters of down stream end of sip should have replacement maint next winter. Gate at school Rd needs adjusting Need new gate post at Killy camp ground Lougheed Hwy to Bakeson Channel Dyle c.k. Gates c.K. Bateson Channel to Mt Woods, de Dyke o.k. 2010/04/16 CPR track to old Scowlitz Rd (Hackels + Scowlitz) Hackels Lyke ak. Scowlitz, Lyke ok Flood gate o.R. apstream end of flood box needs cleaning (backhoz job)

Mahon, Claudia FLNR:EX

From: Matthew Connolly <MConnolly@district.kent.bc.ca>

Sent: Tuesday, April 19, 2016 3:30 PM

To: Bristol, Mike FLNR:EX

Cc: Pattle, John R FLNR:EX; Mick Thiessen; Matthew Connolly

Subject: Unauthorized Dike Works

Attachments: IMG_0391.JPG; IMG_0392.JPG; IMG_0393.JPG; Location.pdf

Follow Up Flag: Follow up **Flag Status:** Flagged

Hi Mike,

We've uncovered some additional work on the dike that I'm assuming your office wasn't aware of. I've left a message for the owner trying to find out what was done but it looks like they've put pipes through the dike.

I've attached some photos and a location map. I'll follow up when I get additional information.

Regards,

Matthew Connolly

Environmental and Engineering Services Coordinator District of Kent PO Box 70 - 7170 Cheam Ave Agassiz, BC

Office: 604-796-2235 Fax: 604-796-9854

----Original Message-----

From: Chris Hardy

Sent: Tuesday, April 19, 2016 1:19 PM

To: Matthew Connolly < MConnolly@district.kent.bc.ca>

Subject:

Page 80 to/à Page 81

Withheld pursuant to/removed as

DUPLICATE