

STATE OF MAINE DEPARTMENT OF AGRICULTURE, CONSERVATION AND FORESTRY BOARD OF PESTICIDES CONTROL 28 STATE HOUSE STATION AUGUSTA, MAINE 04333-0028

WALTER E. WHITCOMB COMMISSIONER

HENRY S. JENNINGS DIRECTOR

MEMORANDUM

Date: April 15, 2015
To: Board Members
From: Henry Jennings

Subject: Criteria for Issuing Variances from Chapter 29, Section 6 for Railroad Spraying

Companies spraying railroads need to obtain variances from Chapter 29, Section 6 if they wish to make broadcast applications of herbicides within 25 feet of surface water. Railroad companies have traditionally requested to apply herbicides up to 10 feet of water crossings.

Historically, the Board has granted variances for railroad spraying provided that the applicant adheres to the "MDOT model." At the May 16, 2014, meeting the Board granted a one-year variance from Chapter 29 to Asplundh Tree Expert Company—Railroad Division. However, concern was voiced at the meeting about the runoff potential for one of the herbicides listed on the application. Those present came to the realization that no one was completely sure what the "MDOT model" entailed. Consequently, the Board directed the staff to work with MDOT and other experts to develop guidelines/criteria for the issuance of railroad variances prior to next season. Robert Moosmann of MDOT has developed some draft guidelines (attached) and the staff has been researching the available railroad spraying guidelines and the products commonly used.

After considering the purpose of the requirement for which Chapter 29 variances are issued, contemplating the Board's directive, and reviewing related material, the staff came to the conclusion that the principal question relates to the inherent runoff risks related to the product choices. Based on this premise, it led the staff to two possible paths: 1) conduct comprehensive comparative aquatic risk assessments on each of the potential products, or 2) rely on EPA's assessment by way of the surface water advisory statements on the product labels. Given that the staff is currently engaged in a rather ambitious assessment of pesticide risks to marine invertebrates, the latter option appears to be the more prudent choice.

The staff has excerpted the surface water advisories (attached) from the products containing the active ingredients used on last year's projects. A rather wide diversity in the level of concern in the advisories is quickly apparent. The water quality advisories reveal there is relatively little concern for glyphosate and imazapyr products. The Dupont Oust Extra (sulfometuron methyl and metsulfuron methyl) label contains a 25 foot buffer to surface water for railroad applications thereby precluding the Board from issuing a variance for that product. Labels for products containing aminopyralid (e.g. Chaparral), aminocyclopyrachlor (e.g. Streamline) and indaziflam (e.g. Esplande) all include surface water advisories that raise concerns. The staff would like guidance from the Board on whether products with these advisories should qualify for a variance.

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In addition to screening for appropriate products for variance consideration, Bob Moosmann has identified a series of criteria the Board may want to consider as requirements for issuing variances for spraying within 25 feet of surface water, such as:

- Requiring the use of products that do not contain surfactants
- Requiring inclusion of a sticker/extender (like pineolene) for which there is scientific data supporting the ability of the adjuvant to adhere the herbicides to the substrate.
- Prohibiting—consistent with some of the ground water advisories—applications when significant precipitation is forecast for the application area within 24 hours
- Considering the time of year when spraying will be conducted. MDOT discourages railroad applications in May or June as these have been very wet months in recent years.

Action Needed: Final Adoption of the Rule, Basis Statement, Rulemaking Statement of Impact on Small Business, and Response to Comments for Chapters 22 and 28

• Jennings noted that these two rules were major substantive and so required legislative review. There wasn't a lot of discussion about the rules at the hearing or work session; the governor allowed them to become law without signing them. The Board can't change anything at this point: it can only vote on whether to finally adopt the amendments or not.

Chapter 22

- Jemison/Morrill: Moved and seconded to adopt the rule as amended, the basis statement, the impact on small business and the response to comments and for Chapter 22 as written.
- o In Favor: Unanimous

Chapter 28

- Jemison/Stevenson: Moved and seconded to adopt the rule as amended, the basis statement, the impact on small business and the response to comments and for Chapter 28 as written.
- o In Favor: Unanimous
- Consensus was reached to support using enforcement discretion during the transition period and encourage applicators to begin posting immediately. Staff was directed to post information on the website and to send an email to applicators clarifying what the requirements are.
- 5. <u>Development of Guidelines for the Board Related to the Issuance of Variance Permits for Spraying Railroads Adjacent to Surface Waters</u>

At the May 16, 2014, meeting, the Board granted a one-year variance from Section 6 of Chapter 29 to Asplundh Tree Expert Company—Railroad Division to make broadcast herbicide applications less than 25 feet from surface water. At that time, the Board also directed the staff to develop guidelines/criteria for issuance of railroad variances prior to next season. Robert Moosmann of MDOT has developed some draft guidelines and the staff has been researching the Board concerns. The staff will present its findings and seek feedback from the Board.

Presentation By: Henry Jennings

Director

Action Needed: Establish Criteria for Granting Railroad Variances

• Jennings explained that—for the last 28 years—the Board has been issuing variances to railroads from the Chapter 22 requirement to identify sensitive areas within 500 feet of the application site. Based on the current rulemaking, on May 25, companies conducting applications under category 6A will no longer be required to identify sensitive areas, so variances will no longer be necessary. For the last six or seven years the Board has been issuing two variances to railroads: one for Chapter 22 and one for Chapter 29 relating to broadcast spraying within 25 feet of water. Now we are focused on the latter. Companies are willing to maintain a 10 foot buffer, so we're only talking about a 15 foot strip. The staff had discussions around root uptake and ground water concerns, but this variance to Chapter 29 is only about surface water. The staff spent a lot of time looking for best management practices (BMP); there are a fair number for roadsides and transmission lines but not much for railroads. The management goals are very different: roadsides need to keep woody plants in control; railroads need to eliminate all vegetation in ballast. Bob Moosmann's document did an excellent job

of explaining what they're trying to do and why. This is rock ballast, usually with a steep embankment. It has the characteristics of a high risk area, but the variance only relates to a 15 foot wide strip. It looks like rock on the surface, but there is organic matter underneath. The staff began thinking we needed BMPs but ended up thinking it's really just about the products and the timing. The entire discussion started around a particular product that was listed in a variance request and whether that product was appropriate for this use. The Board could do a risk assessment covering all products, but that would take a lot of resources, so the staff decided to focus on the surface water advisories. Then the staff received a comparative risk assessment of products, submitted by Bayer, which was not in agreement with the label advisories. In talking with Brian Chateauvert from Railroad Weed Control, who has done the bulk of this work in Maine in the last 30 years, it became apparent that we need to consider weed resistance. One key component of resistance management is being able to change modes of action and chemistries. If resistance develops the application rates will go up, which will conflict with the water quality protection goals. Maybe the Board should focus on encouraging applicators to use other practices such as staying away from soap-like surfactants, using a sticker/extender instead; avoid spraying when rain is forecast; avoid spraying early in the year when the water table is high; using the lowest effective rates; using multiple chemistries. The staff discussed various options quite a bit, but there isn't sufficient information available that lets us tell them which products to use and which products to not use. Their programs already include their risk assessment balanced against the need for efficacious control. Remember that this variance is all about a 15 foot strip; there is no current evidence that this is causing issues. Bayer's assessment indicates a concern for sensitive vascular plants. When EPA does a risk assessment for aquatic risks they assume a worst case scenario as far as application rates, the volume of water being impacted. Dilution may be the solution, because the scenarios we're anticipating in Maine involve a higher volume of water than what's used in the EPA model.

- Hicks said there was nothing inherently wrong with Bayer's assessment. There were three products used in Maine that weren't included; she tried to find toxicity data for them. EPA hasn't done anything on glyphosate in recent years; in an earlier review that she did of glyphosate she found that much of its toxicity is from the surfactant, not from the glyphosate itself. Hicks handed out a chart comparing the products; the ones in gray were not included in Bayer's assessment.
- Bohlen noted that this discussion is on a 15 foot strip, sometimes along lake shores. Are there implications for this policy on operations elsewhere? If the Board makes recommendations for areas adjacent to water, how will that affect what is done away from the water. Chateauvert replied that they treat 12 feet in both directions from the center of the track. At a road crossing, where visibility is needed, they go out further. Where there's water they narrow the pattern and shut off some nozzles. Applicators essentially use the same chemistry throughout the project. There's no way to change chemistry on the fly. There are two tanks but they have to get out of the vehicle and manually change over. The separate tanks are used to extend the length of track that can be treated before stopping and loading on additional water. Along Sebago they apply glyphosate for five miles and once they're away from the water they change the mix, but they can't do that everywhere. When the booms are shut off, a gutter comes up to collect drips.
- Morrill asked what the protocol is within 10 feet of the water. Chateauvert said that if there is a weed issue, the railroad company goes in and turns up stones. This is very expensive. Usually the abutment is way back from the water and you can spray right up to the bridge. He noted that they are making just one application a year, at maintenance rates. For Streamline the maximum rate is 11.5 (ounces per acre) and they are using 6 (ounces per acre); The maximum rate for Esplanade is 10 (fluid ounces per acre) and they're using 4.75 to 5 (fluid ounces per acre).
- Morrill remarked that Bob Moosmann's report is great; really explains the treatments, the why and how. The Board is looking at the same variance permits year after year; if it's the same variance then it is a good rule. The product label directions also provide protection. Morrill isn't sure the Board should handcuff applicators by limiting product choices. He doesn't want to have to issue permits every year; why create a rule and then provide variances so no one has to follow it. Jennings

suggested there may be a public benefit to the variance since it generates this kind of discussion. The Board could grant multi-year permits. There may be circumstances where you would want the 25 foot buffer.

- Stevenson asked whether variances come before the Board; Jennings said that the first one does, but the Board has said the staff can re-issue variances if there are no changes. Or the Board can choose to see them every year. Last year when a specific variance (which included Streamline) came before the Board you granted a one-year variance but asked the staff to study the subject. Morrill noted that the Board has always said "follow the MDOT model" but couldn't really define what that was, so it wanted to look at BMPs. Hicks noted that the biggest BMP is to follow the label. Morrill agreed, and the second is to follow the Board's drift rule. Chateauvert noted that there is a large disincentive to mess up. Jennings remarked that there is not a high risk of drift because they are using large droplets and low boom height.
- Bohlen commented that the aquatic risk is more about rain events. The suggestions on the memo address those risks.
- Morrill agreed that that the ideas in the memo are good. He prefers to leave off specific product names; a better product might come along. He asked what "significant rain event" means. Fish suggested half an inch. Jennings said that in a drought half an inch isn't very much, but if the soil is saturated then it's a lot. Morrill suggested changing the language from significant rain event to rain forecast within 12 hours.
- Bohlen noted that the intent is to say that if it's going to rain, don't spray. The concern is about an elevated water table. It's not just about precipitation. Can the language be rephrased to specifically address the water table, location specific?
- Granger said that a lot of herbicides are more effective at lower rates early in the season. He suggested leaving it to the judgment of the applicators.
- Bohlen suggested saying consider the condition of the water table when spraying early in the season. Chateauvert noted that if the ground is saturated, they shouldn't be spraying anyway.
 - Morrill/Stevenson: Moved and seconded: if variance permit request meets the criteria (from memo, as amended above) the staff can approve the variance for two years, otherwise bring requests to the Board; review the policy in two years.
 - o In Favor: Unanimous
- 6. Review of *Interim Guidelines for Forest Pesticide Applications* Intended to Prevent Discharges of Pesticides to Waters of the State

On June 27, 2012, the Board approved *Interim Guidelines for Forest Pesticide Applications* with the statement: "These guidelines were not developed for and are not intended to serve as standards for permitting purposes." At that time there was not a general pesticide permit to cover pesticide applications made over or near water and these guidelines were intended to help prevent discharges of pesticides. In April, 2015, the Maine Department of Environmental Protection finalized a general permit for aerial application of forest pesticides and referenced BPC Best Management Practices. Additionally, at the Joint Standing Committee on Agriculture, Conservation and Forestry work session for LD 817, An Act Regarding Aerial Pesticide Spray Projects, there was discussion about adding references to technological advances for aerial spraying. Should anything be added to improve this document? Should the condition be removed given that the document has been referenced in a state permit?

Presentation By: Henry Jennings

Director

Action Needed: Provide Guidance to the Staff

Gerald L. Blase	7	(215) 60	3-1841
Name		Telephone 1	Number
Asplundh Tree Expert Co	Railroad Division		
Company Name			
740 County Rd 400	Ironton	ОН	45638
Address	City	State	Zip
Gerald L. Blase		CMA 1303	
Master Applicator (if applicable	3)	License Nur	nber
919 Phillips Rd	Warminster	PA	18974
Address	City	State	Zip
St Lawrence & Atlantic Railre	oad Right of Wav- 24' patt	tern (12' each side	of Center of tr
St Lawrence & Atlantic Railro leaving a minimum of 10' bi			······································
water.	uner zone nom Lakes, ou	Cairia, inivers, alle	nowing ourtac
2 22			
Pesticide(s) to be applied: Accord XRTII (EPA# 62719-	517) 1_2 nts/ac : Esnlana	da 200SC(EPA#4)	32-1516) 3-402
			02 10.0) 0 102
Opensight (EPA# 62719-597)3 all products mixed and appl	ied in 25-30 gal of water/	acre	
Purpose of pesticide application The purpose of the applicat	n: ion is to maintain the rail t	pallast and should	er adjacent to t
ballast vegetation free for th	ne following reasons includ	ding: 1) To allow fo	r proper safety
inspection of the ties, switch	es,and rails 2) to maintain	proper drainage.	3) To allow for
the inspection of trains. 4) to	o remove health and safet	ty hazzards for the	employees an
public, 5) to improve working	g conditions. 6) To reduce	fire hazzards. 7)	To improve
visibility at road crossings.			

	Application Equipment: Hy-Rail Truck Equipment with fixed mounted booms approximately 18" above the rail
9	Standard(s) to be varied from: Chapter 29 Section 6 A , I to V Buffer Requirements (prohibiting pesticide applications within
2	25 feet of the mean high water mark).
	Asplundh has chosen to use products that are proven to maintain the ballast weed free by using the lowe
	use rates possible to achieve the results. By following the State of Maine regulations with regard to buffer
	zones in which no spraying will occur and lowest use rates, and incorporating a good IPM program includi track maintainence, that the risk to the Public and the Environment will be minimized.
N Asj	Method to ensure equivalent protection: plundh will monitor weather conditions in advance of applications cancel applications when rainfall is prec
Th	ne railroad will supply an advance hy-rail truck in which the patrolman will have the track charts that show
riv	er and stream crossings, ponds, and grade crossings. Radio Communicationbetween the patrolman and
sp	oray truck operator will allow advance notice to the operator of bridges, culverts, and water courses. Aspli
Wi	ill leave a minimum 10' buffer from lakes, streams, rivers, and flowing surface water. The railroad will emp
al	lternative methods to control vegetation in those skipped ares if required. Asplundh uses a drift control pro
(4	41-A) in every mix. A sticker product (like New Film IR) will also be used to help the mixture "stay in place"
0	on the rail bed, and NO surfactants will be added to any mixture. None of the proposed herbicides are vola

Name		<u>(215 ₎ 80</u> Telephone N	06-8951 Number
Asplundh Tree Expert Co Railre	oad Division	•	
Company Name			
720 County Rd 400	Ironton	ОН	45638
Address	City	State	Zip
Don Weimann		CMA 43017	
Master Applicator (if applicable)		License Nur	nber
720 County Rd 400 Address	Ironton	ОН	45638
	City	State	Zip
Area(s) where pesticide will be applied St Lawrence & Atlantic Railroad F	Right of Way- 24' pa	· · · · · · · · · · · · · · · · · · ·	
	Right of Way- 24' pa	· · · · · · · · · · · · · · · · · · ·	
St Lawrence & Atlantic Railroad F	Right of Way- 24' pa	· · · · · · · · · · · · · · · · · · ·	
St Lawrence & Atlantic Railroad F	Right of Way- 24' pat zone from Lakes, St	reams, Rivers, and	I flowing Surfa
St Lawrence & Atlantic Railroad For leaving a minimum of 10' buffer a water.	Right of Way- 24' par zone from Lakes, St ac ; Esplanada 2008	reams, Rivers, and	I flowing Surfa
St Lawrence & Atlantic Railroad Following a minimum of 10' buffer a water. esticide(s) to be applied: Razor Pro(EPA# 228-366) 1-2 pts/	Right of Way- 24' par zone from Lakes, St ac ; Esplanada 2008 Spyder Extra(EPA#2	reams, Rivers, and SC(EPA#432-1516 228-690) 3-4oz/ac	I flowing Surfa
St Lawrence & Atlantic Railroad Following a minimum of 10' buffer a water. esticide(s) to be applied: Razor Pro(EPA# 228-366) 1-2 pts/sizensight (EPA# 62719-597)3oz/ac; all products mixed and applied in	Right of Way- 24' par zone from Lakes, St ac ; Esplanada 2008 Spyder Extra(EPA#2	SC(EPA#432-1516 228-690) 3-4oz/ac acre	I flowing Surfa
St Lawrence & Atlantic Railroad F leaving a minimum of 10' buffer z water. esticide(s) to be applied: Razor Pro(EPA# 228-366) 1-2 pts/z pensight (EPA# 62719-597)3oz/ac; \$ all products mixed and applied in Purpose of pesticide application:	Right of Way- 24' par zone from Lakes, St ac; Esplanada 2008 Spyder Extra(EPA#2 25-30 gal of water/ to maintain the rail	SC(EPA#432-1516 228-690) 3-4oz/ac acre ballast and shoulde	I flowing Surfa) 3-4oz/ac; er adjacent to

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Method to ensure equivalent protection: Asplundh will monitor weather conditions in advance of applications cancel applications when rainfall is pre
The railroad will supply an advance hy-rail truck in which the patrolman will have the track charts that show
river and stream crossings, ponds, and grade crossings. Radio Communicationbetween the patrolman an
spray truck operator will allow advance notice to the operator of bridges , culverts, and water courses. Asp
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place" on the rail bed, and NO surfactants will be added to any mixture. None of the proposed herbicides
volatile.
voiatile.

Robert W. Moosmann		(207) 592-0774	
Name	Telephor	elephone Number	
Maine Department of Transportati Company Name	on, Bureau of Maintenance	& Operations	
16 State House Station	Augusta	Maine	04333-0016
Address	City	State	Zip

II. Area(s) where pesticide will be applied:

- Selected State maintained roads and other transportation facilities such as buildings, maintenance lots, bridges, and railroads, and adjacent areas within the right of way thereof.
- Selected target plants include: evergreen trees up to 3 feet high and deciduous trees up to 6 feet high; grasses and weeds in guardrail areas, in pavement cracks, invasive plants; plants that present a health risk; or other plants necessary to control for transportation purposes.

III. Pesticide(s) to be applied:

The following products or equivalents may be used as the only product in the mix or in various combinations and concentrations.

Garlon 4 Ultra (triclopyr), Escort or MSM_60 (metsulfuron methyl), Arsenal Powerline Herbicide (imazapyr), Krenite S (fosamine ammonium), Streamline (aminocyclopyrachlor and metsulfuron methyl), Rodeo or Glyphosate 5.4 (glyphosate), Endurance (prodiamine), Oust or SFM_75 (sulfometuron methyl)

IV. Purpose of pesticide application:

- 1) Control of woody brush on roadsides to maintain safety clear zones, sight distances, enhance winter solar access to pavement, and provide snow storage.
- 2) Control of grasses and weeds in cracks in pavement in preparation for asphalt surface treatments.
- 3) Control of grasses and weeds in guardrail areas to enhance sight distances, visibility of and access to structures, signs, and other devices.
- 4) Control of invasive plants
- 5) Control of plants that present a health risk to department or contract workers.
- 6) Control of other plants necessary to control for transportation purposes.
- V. Approximate dates of spray application: April 27, 2015 to December 1, 2015

VI. Application Equipment:

- Hypro 10 gpm diaphragm piston pump hydraulic sprayer with handgun or equivalent, 100 to 700 gallon tanks.
- Low pressure, low application rate, side mounted off center nozzles for roadside weed control spraying
- Low pressure, low application rate, no drift raindrop nozzle, handgun with extension wand
- Backpack and hand pump sprayers

VII. Standard(s) to be varied from: Chapter 29 - Section 6. Buffer Requirement Part (A)

VIII. Reason for variance:

To provide control of brush, annual, or perennial plants growing within a distance from 25 feet to 10 feet from waters as defined in the regulation. Brush and other plants targeted for control will be those which impede visibility of the road, signs, guardrail, entrances, and other structures; cause shading of the road surface; are considered an invasive plant; are a health risk: or other plants necessary to control for transportation purposes.

IX. Method to assure equivalent protection:

- 1) Roadside brush control: use large nozzle disc size for enlarged droplet size, use a tank mix particulating agent for enlarged droplet size, use sticker-spreader-extender to adhere spray materials to ground or leaf surface and make rain fast, use pump pressure of 25-125 psi to maintain spray stream trajectory of less than 40 feet, use low volatile chemicals at lowest effective rates, maintain notification signage on spray trucks, offer no-spray agreements. Spray when ground is dry and not saturated with water. Avoid spraying when forecasts show a threat of heavy rains. Do not spray on rainy days and cease spray operations if rain is in the immediate forecast.
- 2) Roadside broadleaf weeds: use low pressure of 30 to 100 psi, low volume per acre techniques with side mounted off center nozzles that produce large droplets over a controlled spray pattern of 6 to 20 feet, use a slow ground speed of 15 mph or less, use a sticker extender to adhere spray materials to the ground or leaf surfaces and make rain fast, use low volatile chemicals at lowest effective rates, maintain notification signage on spray trucks, offer no-spray agreements. Spray when ground is dry and not saturated with water. Avoid spraying when forecasts show a threat of heavy rains. Do not spray on rainy days and cease spray operations if rain is in the immediate forecast.
- 3) Cracks in pavement, guardrail, invasive plants, plants that are a health risk, or other plants: use a low pump pressure of 25 to 50 PSI; use a tank mix particulating agent for enlarged droplet size, use a spray gun and spray nozzles that will produce raindrop size particles with no fine particle sizes that can drift away from target, use non-volatile chemicals at lowest effective rates, use a sticker-spreader-extender to adhere spray materials to ground or leaf surface and make rain fast, maintain notification signage on spray trucks. Spray when ground is dry and not saturated with water. Avoid spraying when forecasts show a threat of heavy rains. Do not spray on rainy days and cease spray operations if rain is in the immediate forecast.

	Robert W. Morsmann			
Signed:		Date <u>:</u>	4/12/2015_	

Robert W. Moosmann_	Office: (207) 624-3600_	Cell: (2	<u>207) 592-0774</u>
Name		Telepho	one Number
Maine Department of Transportation	on, Bureau of Maintenance & Ope	rations	
Company Name			
16 State House Station	Augusta	Maine	04333-0016
Address	City	State	Zip

II. Area(s) where pesticide will be applied:

- Selected State maintained roads and other transportation facilities such as buildings, maintenance lots, bridges, and railroads, and adjacent areas within the right of way thereof.
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The following products or equivalents may be used as the only product in the mix or in various combinations and concentrations.

Garlon 4 Ultra (triclopyr), Escort or MSM_60 (metsulfuron methyl), Arsenal Powerline Herbicide (imazapyr), Krenite S (fosamine ammonium), Rodeo (glyphosate), Endurance (prodiamine), Oust or SFM_75 (sulfometuron methyl)

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- 2) Control of grasses and weeds in cracks in pavement in preparation for asphalt surface treatments.
- 3) Control of grasses and weeds in guardrail areas to enhance sight distances, visibility of and access to structures, signs, and other devices.
- 4) Control of invasive plants
- 5) Control of plants that present a health risk to department or contract workers.
- 6) Control of other plants necessary to control for transportation purposes.
- V. Approximate dates of spray application: May 15, 2017 to December 31, 2017

VI. Application Equipment:

- Hypro 10 gpm diaphragm piston pump hydraulic sprayer with handgun or equivalent, 100 to 700 gallon tanks.
- Low pressure, low application rate, side mounted off center nozzles for roadside weed control spraying
- Low pressure, low application rate, no drift raindrop nozzle, handgun with extension wand
- Backpack and hand pump sprayers

VII. Standard(s) to be varied from:
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VIII. Reason for variance:

To provide control of brush, annual, or perennial plants growing within a distance from 25 feet to 10 feet from waters as defined in the regulation. Brush and other plants targeted for control will be those which impede visibility of the road, signs, guardrail, entrances, and other structures; cause shading of the road surface; are considered an invasive plant; are a health risk: or other plants necessary to control for transportation purposes.

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- 1) Roadside brush control: use large nozzle disc size for enlarged droplet size, use a tank mix particulating agent for enlarged droplet size, use sticker-spreader-extender to adhere spray materials to ground or leaf surface and make rain fast, use pump pressure of 25-125 psi to maintain spray stream trajectory of less than 40 feet, use low volatile chemicals at lowest effective rates, maintain notification signage on spray trucks, offer no-spray agreements. Spray when ground is dry and not saturated with water. Avoid spraying when forecasts show a threat of heavy rains. Do not spray on rainy days and cease spray operations if rain is in the immediate forecast.
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	Robert W. Mossmann			
Signed:		Date <u>:</u>	4/27/2017	

		(413) 562	2-5681
Name		Telephone Nu	ımber
RWC, INC.			
Company Name			
P.O. BOX 876, 248 LOCKHOUSE R	ROAD WESTFIELD, M	1A 01086-0)876
Address	City	State	Zip
BRIAN CHATEAUVERT		CMA3046	5/6A 6B
Master Applicator (if applicable)		License Numb	per
11 STONEGATE CIRCLE	WILBRAHAM, MA	01095	
Address	City	State	Zip
Area(s) where pesticide will be applie			
and the surrounding area, particula pesticides@maine.gov	arly showing proximity to	wetlands and w	ater bodies, t
Aran(s) whore posticide will be applied	٨.		
Orrington Rail Project - Orri			
Pan Am Railways-48'nattern (2)	4 each side center of	track)	
Belfast Moosehead Lake Railro Presque Isle Industrial Counc	il formerly Aroostook	<u>ch side cente</u> Vallev Railr	<u>r of track)</u> oad-24' nat
<u>(12' each side center of trac</u>	k)	1.51	A 100000
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VII.	Approximate dates of spray application: June 1 through September 30, 2015
VIII.	Application Equipment: Hy-rail Truck Equipment with fixed mounted booms approximately 18 inches
	above the rail.
IX.	Standard(s) to be varied from: Chapter 29 Section 6A, I to V - Buffer requirements (prohibiting pesticide
	applications within 25 feet of the high water mark).
X.	Method to ensure equivalent protection: The railroads patrolment have track charts which show rivers, streams, ponds,
	road crossings, etc. He normally is in a track vehicle running ahead of the spray unit and through the use of radio communication, gives a warning signal
	where there are culverts, bridges with running water underneath and other sensitive areas adjacent to the track. RWC, Inc. has mounted in cab controlled
	gutters on the rear of our equipment to assure that no pesticides drip or enter the waterways of the State of Maine when going over the bridges. RWC, Inc.
	will leave a buffer of ten feet(10') from lakes, rivers, streams and surface waters and in the case of a public water supply will only apply Glyphosate,
	for a distance of one half mile before the site and one half mile beyond. Within
	the ten-foot (10') buffer, alternative methods will have to be employed to control

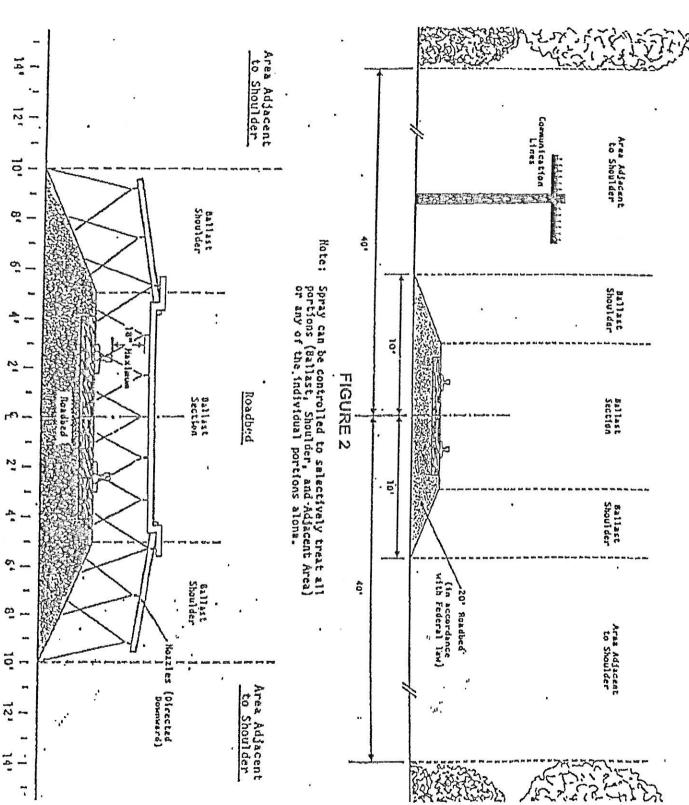
continue to use sticker-spreader-extender to adhere spray materials to ground or leaf surface, continue to use low volatile chemical, continue to monitor weather conditions and cancel applications when rainfall is predicted. RWC will conduct the applications in a manner which protects surface water as defined in Chapter 29, Section 6A.

and enlarged droplet size continue using nozzles that enlarge droplet size,

vegetation. RWC Inc. will use drift control agents to reduce the chance of drift

Signed: Brean Chateauvert Date: 5/7/2015

RAILROAD AREAS REQUIRING VEGETATION CONTROL FIGURE 1



BRIAN CHATEAUVERT	(4	13) 562-5681	
Name		Telephone Nu	mber
RWC, INC.			
Company Name			
PO BOX 876, 248 LOCKHOU	SE RD WESTFIELD	, MA 01086-087	6
Address	City	State	Zip
BRIAN CHATEAUVERT		CMA3046/6A	6B
Master Applicator (if applicable)		License Numb	
11 STONEGATE CIRCLE	WILBRAHAM,	MA 01095	5
Address	City	State	Zip
As part of your application, please see the surrounding area, particularly shpesticides@maine.gov Area(s) where pesticide will be application Am Railways-48' pattern (24' each	nowing proximity to w	0	_
Belfast Moosehead Lake Railroad – 24	' pattern (12'each side	center of track)	
Presque Isle Industrial Council – 24' pa	attern (12' each side cer	nter of track)	
Maine – State owned Railroad Tracks -	10' nottom (21' oo ah a	side center of track)	
	- 48 pattern (24 each s	side center of track)	

Turner Island LLC Railroad, S. Portland, Maine – 24' pattern (12' each side center of track)

Maine Northern Railway – 48' pattern (24' each side center of track)

Eastern Maine Railroad – 48' pattern (24' each side center of track)

Central Maine & Quebec Railway 48' pattern (24' each side center of track)

- V. **Pesticide(s) to be applied**: Various combinations of Aquaneat (Glyphosate), Polaris AC Complete (Imazapyr), Escort XP (Metsulfuron Methyl). Opensight (Potasium Salt of Pyridine), Esplanade 200SC (Indaziflam), Viewpoint (Aminocyclopyrachlor Imazapyr Metsulfuron methyl) Method 50SG (Aminocyclopyrachlor), in 30-60 gallons of water per acre.
- VI. **Purpose of pesticide application**: the ballast, shoulder and areas adjacent to shoulder sections of the right-of-way (diagrams of typical spray patterns enclosed) must remain weed, grass and brush free for just some of the following reasons:
 - a. To allow for proper inspection of tie fastenings, switches & rails
 - b. To maintain proper drainage
 - c. To allow for inspection of trains
 - d. To remove health and safety hazards
 - e. To improve working conditions
 - f. To reduce fire hazards
 - g. To improve visibility at road crossings

- VII. **Approximate dates of spray application**: May 15th through September 30, 2017
- VIII. **Application Equipment**: Hy-rail Truck Equipment with fixed mounted booms approximately 18 inches above the rail for weed and grass control and brush booms with fixed directa spray and mini wobbler tips.

IX. Standard(s) to be varied from:

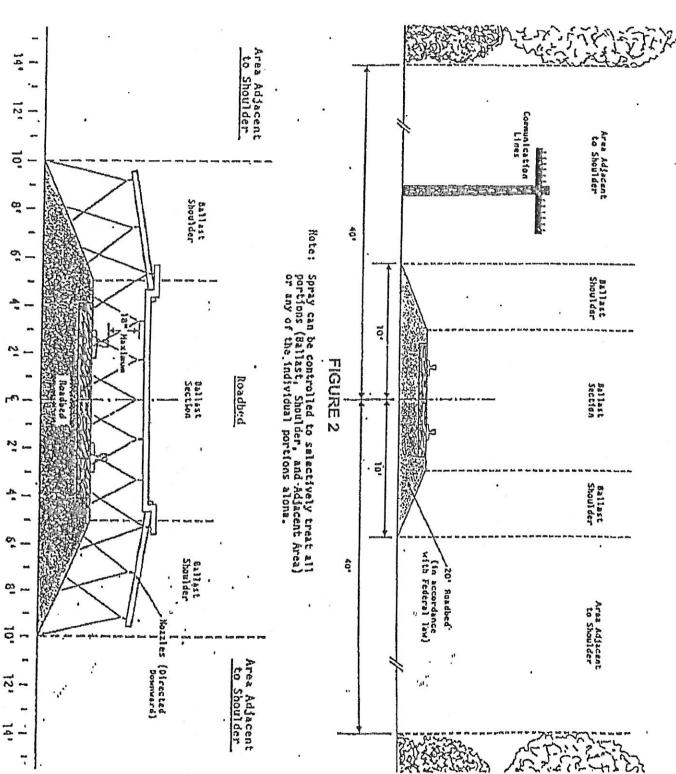
Chapter 29 Section 6A, I to V – Buffer requirements (prohibiting pesticide applications within 25 feet of the high water mark).

X. Method to ensure equivalent protection:

The railroads patrolmen have track charts which show rivers, streams, ponds, road crossings, etc. He normally is in a track vehicle running ahead of the spray unit and through the use of radio communication, gives a warning signal where there are culverts, bridges with running water underneath and other sensitive areas adjacent to the track. RWC, Inc. has mounted in cab controlled gutters on the rear of our equipment to assure that no pesticides drip or enter the waterways of the State of Maine when going over the bridges. RWC, Inc. will leave a buffer of ten feet (10') from lakes, rivers, streams and surface waters and in the case of a public water supply will only apply Glyphosate, for a distance of one half mile before the site and one half mile beyond. Within the ten foot (10') buffer, alternative methods will have to be employed to control vegetation. RWC, Inc. will use drift control agents to reduce the chance of drift and enlarged droplet size continue using nozzles that enlarge droplet size, continue to use sticker-spreader-extender to adhere spray materials to ground or leaf surface, continue to use low volatile chemical, continue to monitor weather conditions and cancel applications when rainfall is predicted. RWC will conduct the applications in a manner which protects surface water as defined in Chapter 29, Section 6A.

Signed:	_Brian Chateauvert	Date:	January 24, 2	2017

FIGURE 1
RAILROAD AREAS REQUIRING VEGETATION CONTROL



Donald DuBoi	\$	(207) 316	- 8016
Name		Telephone Num	lber
DuBoi's Contra	ict ing		<u>, </u>
• •			
295 St. JOhn Roa Address	d Font Kent	State	<u>04743</u> Zip
adress	City	State	Zip
Donald DuBers		CMA 44 83	0/3A3B
Master Applicator (if applicable)		License Numbe	r
295 St. John Roac	I FONT Kent	maine	04743
Address	City	State	Zip
Area(s) where pesticide will be an	oplied:	Mast	Tale
Area(s) where pesticide will be ap	oplied:	the St.	TOLH
Font Kent C and Fish Riv	2000		
wha provide			
			· · · · · · · · · · · · · · · · · · ·
Dantiaida(a) to be emplied:			
Peaticide(s) to be applied: Kodeo, Libera	te Blue D	ye	4 -
	<i>'</i>	/	
Purpose of pesticide application:	,		
Total elimi	Nation OF	all Vegut	ation_
OH the rocky	portion of	= the dik	'e an
the Civer:	side. Per o	requirmen	ts OF
Army Corp o	F Engiveer	s Federa	1 Gov.
/	,		

6A6B

VII.	Approximate dates of spray application: 1048 / 40 August 30 2015 while vegetation
	Approximate dates of spray application. JUNE 1 to August 30 2015 while vegetation in Altive and niver is At its LowesT
VIII.	Application Equipment: Manuel Back Packing
IX.	Standard(s) to be varied from: HIJOWABJE USE OF THIS product on a dry Flood Plain (Rodeo) USE within 25, 05
	high water mark
X.	Method to ensure equivalent protection: Will in Corperate use of low pressure Dack pack application with Roden instead OF Round up to minimize leaching, Use Liberate is a non-ionic surfaction to Containing
	drift control agent + deformer allin on e. Will use blue dye to reduce over application. We are also Danning application date of
	June I to August 30 to assure river level is at its 10 west with no wind where temperature will allow for fastest drying time + no suspension
Sione	Date: 4/18/16

BOARD OF PESTICIDES CONTROL APPLICATION FOR VARIANCE PERMIT

(Pursuant to Chapter 29, Section 6 of the Board's Regulations)

I.	Donald Dubois		(207) 316	
	Dubois Contractions Company Name	tina	Telephone Numb	er
	Company Name) 104	
	295 St John Rd Address	City	t IIIe	04743
			State	Zip
II.	<u>Donald Dubois</u> Master Applicator (if applicable)	CI		<u>3A3B6</u> A0
	295 St John Rd	Fort Kent	License Number	04743
	Address	City	State	Zip
III.	As part of your application, please send and the surrounding area, particularly pesticides@maine.gov	l digital photos showin showing proximity to	ng the target site an wetlands and wate	d/or plants r bodies, to
IV.	Area(s) where pesticide will be applied:			
	Fort Kent Dike and Fish River	along th	e st Jo	\n_
V.	Pesticide(s) to be applied: Kodeo, Milestone	£1700,	Blue De	ye
VI.	Tiver Side Per	n of all v n of the c requirme Engineers	nk of	The.

Of any tall regetation growing in said area Will also use LITOD a non ionic surfactant containing drift control & defoamer all in one. Will also use Blue due to reduce any over application.	VII.	June 1 to Hugust 30, 2017 while
IX. Standard(s) to be varied from: Allowable use of these products on a dry flood Plain use within 25 of high water mark. X. Method to ensure equivalent protection: Will in corporate use of Low Pressure backpack application to minimize leaching of spray solution, herbicide application of Rodeo and Milestone will be made for complete control of any tall regetation growing in said area will also use Liton a non ionic surfactant containing drift control a defoamer all in one. Will also use Blue due to reduce any over application. Application date of June 1 to August 30 to assure river level is at its lowest, with no wind where temperature will allow for fastest drying time and suspension of spray.		Vegetation is active univer is at its lowest
Manuel Back Packing IX. Standard(s) to be varied from: All Dwable use of these products on a dry flood Plain use within 25' of high water mark. X. Method to ensure equivalent protection: Will in corporate use of Low Pressure back pack application to minimize leaching of spray solution, Nerbicide application of Rodeo and Milestone will be made for complete control of any tall regetation growing in said area will also use Litop a nonionic surfactant containing drift control to defoamer all in one, will also use Blue due to reduce any over application. Application date of June I to August 30 to assure river level isat its lowest, with no wind where temperature will allow for fastest drying time to suspension of spray.		
IX. Standard(s) to be varied from: All Dwable Use Of these products on a dry flood Plain Use Within 25' Of high water mark. X. Method to ensure equivalent protection: Will incorporate use of Low Pressure back pack application to minimize leaching of spray Solution, Nerticide application of Rodeo and Milestone will be made for complete control of any tall regetation growing in said area, will also use Litop a nonionic surfactant containing drift control to defeamer all in one. Will also use Blue due to reduce any over application. Application date of June 1 to August 30 to assure river level isat its lowest, with no wind where temperature will allow for fastest drying time to Suspension of spray.	VIII.	Application Equipment:
IX. Standard(s) to be varied from: All Dwable Use Of these products on a dry flood Plain Use Within 25' Of high water mark. X. Method to ensure equivalent protection: Will incorporate use of Low Pressure back pack application to minimize leaching of spray Solution, Nerticide application of Rodeo and Milestone will be made for complete control of any tall regetation growing in said area, will also use Litop a nonionic surfactant containing drift control to defeamer all in one. Will also use Blue due to reduce any over application. Application date of June 1 to August 30 to assure river level isat its lowest, with no wind where temperature will allow for fastest drying time to Suspension of spray.		Manuel Back Packing
Allowable use of these products on a dry flood Plain use within 25' of high water mark. X. Method to ensure equivalent protection: Will incorporate use of Low Pressure backpack application to minimize leaching of spray solution, Merbicide application of Rodeo and Milestone will be made for complete control of any tall regetation growing in said area will also use Li 100 a non ionic surfactant containing drift control to defoamer all in one. Will also use Blue due to reduce any other application. Application date of June 1 to August 30 to assure river level isat its lowest, with no wind where temperature will allow for fastest drying time the suspension of spray.		Tradition of the state of the s
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Method to ensure equivalent protection: Will in corporate use of Low Pressure backpack Application to minimize leaching of spray Solution, Merbicide application of Rodeo and Milestone will be made for complete control Of any tall regetation growing in said area, will a) so use Litob a non ionic surfactant containing Orift control & defoamer all in one, will also use Blue due to reduce any over application. Application date of June 1 to August 30 to assure river level isat its lowest, with no wind where temperature will allow for fastest drying time of the suspension of spray.		Allowable use of these products ona
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will incorporate use of Low Pressure backpack application to minimize leaching of spray solution, Merbicide application of Rodeo and Milestone will be made for complete control of any to 11 regelation growing in said area. Wil also use Litop a non ionic surfactant containing drift control to deformer all in one. Will also use Blue due to reduce any over application. Application date of June 1 to August 30 to assure river level isat its lowest, with no wind where temperature will allow for fastest drying time to suspension of spray.		·
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Milestone will be made for complete control of any tall regetation growing in said area. Will a) so use Litop a non ionic surfactant containing drift control to deformer all in one. Will also use Blue due to reduce any over application. Application date of June 1 to August 30 to assure river level isat its lowest, with no wind where temperature will allow for fastest drying time to suspension of spray.		Solution, Merbicide application of Rodeo and
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drift control & deformer all in one. Will also use Blue due to reduce any over application. Application date of June 1 to August 30 to assure river level isat its lowest, with no wind where temperature will allow for fastest drying time & n Suspension of spray.		Of any tall regetation growing in said area Wil
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Hoppication date of June 1 to August 30 to assure river level isat its lowest, with no wind where temperature will allow for fastest drying time + n suspension of spray.		
temperature will allow for fastest drying time + n Suspension of spray,		Blue due to reduce any over application.
temperature will allow for fastest drying time + n Suspension of spray,		Application date of June 1 to Hugust 30 to assure
		tiver level isat its lowest, with no wind where
		Suspension of spray,
Signed:		
	Signed	: (/ Anh () Date: 5/26/1)





Vegetation Control Service, Inc.

2342 MAIN STREET ATHOL, MA 01331 OFF: 978-249-5348 FAX: 978-249-4784 56 HILL ROAD FRANKLIN, NH 03235 OFF: 603-934-4665 FAX: 603-934-6260 134 LEVERETT ROAD SHUTESBURY, MA 01072 413-259-1414

April 2, 2015

Henry Jennings Board of Pesticide Control 28 State House Station Augusta, ME 04333-0028

Dear Mr. Jennings:

Included is another *Application for Variance Permit (pursuant to Chapter 29, Section 6 of the Board's Regulations)* for the southern half of TransCanada's 115 kV Transmission line at the Kibby Wind Power Project. This is the same request accepted by the Board in 2012 (see enclosed).

We are applying for this in order to use Mistblowers (motorized back pack sprayers) in wetlands where there is no surface water present and 25 feet from any surface water. Our program is described in detail in the previously submitted Operational Vegetation Management Plan approved by LURC and Maine DEP.

If you have any questions, please do not hesitate to contact myself, or Wendy Priestley at (978) 249-5348 or wendy@vegetationcontrol.com.

Thank you for your time.

Sincerely,

Jeffrey M. Tryln Jeffrey M. Taylor,

VCS Senior Consultant

Enc.

I.	Jeffrey Taylor of Vegetation Control Service, Inc. on behalf of David Murray, Environmental			
	Specialist (603) 445-6803 (VCS: 978-249-5348)			
	TransCanada Energy Ltd, Kibby W	ind Power Project		
	Company Name	ma rower rroject		
	Walpole Office, 2 Killeen Street	North Walpole	NH	03609
	Address	City	State	Zip
II.	Area(s) where pesticide will be applied	1:		
	The southern half of the 115 kV Trans		ind Power Project	(see Approved
*	surface water (in			
	wetlands, streams, rivers, ponds, etc	.). However, according to sp	ecification in the	attached VMP,
	Section 5.8, starting on page 43, treatr	nents will take place in wetla	nds when there is	no surface water
	present.			
TTT	Posticida(s) to be equilibrial.			
III.	Pesticide(s) to be applied: Rodeo (EPA reg. #62719-324, Arsenal Powerline (EPA Reg. #241-431) and Escort XP (EPA Reg. #352-			
		Powerline (EPA Reg. #241-2	131) and Escort A	.P (EPA Reg. #332-
	439			
IV.	Purpose of pesticide application:			
1 V .	1 1			
	Selective Treatment of woody plant species capable of interfering with the conductor zones on the 115			
	kV Transmission line at the Kibby Wind Power Project, with treatment to invasive plant species as identified in the field.			
	identified in the field.	<u> </u>		
				1.1.11111111111111111111111111111111111
V.	Approximate dates of spray application	:		
	July 27 th to August 17 th	,2012 2015		
VI.	Application Equipment:			
	Motorized Back Pack Sprayers (Mistblowers)			

VII.	Standard(s) to be varied from:
	Use of Motorized Back Pack Sprayer in Wetlands along a 14 mile stretch of 115 kV right-of-way

VIII. Reason for variance:

This highly selective method allows for the treatment of the extensive amount of resprouts currently present on the right-of-way in this first treatment to the southern half of the right-of-way since construction. Selective mistblower applications will typically use less herbicide and water mixture per acre as compared to other non-motorized foliar techniques, particularly in dense target situations. There also is little to no excess "herbicide drip" from treated vegetation, resulting in less impact to understory, non-target organisms. Anti-drift additives are always included with all of our tank mixtures which help reduce potential drift and enhance target vegetation selectivity.

IX. Method to assure equivalent protection:

1). The treatment crews will strictly follow the specifications detailed in the attached VMP and all applicable state and federal laws and regulations. 2). The herbicide applications will strictly be selective to capable species (as described above in VIII) under an IVM program using herbicides labeled for use in wetlands. 3). The week of July 9th in advance of the treatment crew, a three man survey crew will walk the entire right-of-way and mark in the field and in TransCanada's GIS database system, the location of all sensitive areas including waterbodies and wetlands. 4). No herbicides will be used within 25 feet of any surface water; mechanical treatment methods will be used instead, primarily hand cutting with chainsaws. 5). All Herbicides applications will be directed away from the surface water buffer. 6). The company performing the 2015 herbicide application is Vegetation Control Service, Inc. a pioneer in IVM and selective motorized herbicide applications with 49 years' experience in the field, in vegetation management consulting and 17 years' experience in GIS database development.

Signed:	Jelfrey	M. Trealn	Date: 4/8/15	
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Statement submitted to the Maine Pesticide Board regarding the Application for Variance Permit pursuant to Chapter 29, Section 6 by Vegetation Control Service, Inc. (VCS) on behalf of TransCanada Energy Ltd, Kibby Wind Power Project

TransCanada has submitted this application to treat within wetlands on the southern half of the Kibby 115 kV transmission line right-of-way with hand held motorized back pack sprayers.

All vegetation maintenance activities at Kibby are guided by a New England utility industry standard *selective* Integrated Vegetation Management (IVM) program. Under this program, the primary ecological communities or "natural areas" that TransCanada intends to establish, encourage and support are natural areas of early successional primarily lower growing herbaceous and scrub-shrub vegetation, in order to comply with Federal clearance standards:

- 1. Primary targets: woody plants capable of maturing over twelve feet in height.
- 2. "Noxious Weeds" including poisonous and invasive species.
- 3. Grasses, herbaceous growth and shrubs or woody vegetation that matures less than twelve feet in height (except where they are capable of interfering with the electric structures) will be reasonably avoided and encouraged to flourish.

GENERAL WETLANDS SPECIFICATIONS

- 1. TransCanada will maintain mechanical only areas twenty-five feet by horizontal measurement from the banks on either side of surface waterbodies/open surface waters in wetlands.
- 2. Herbicide applications in wetlands are limited spray areas in which only appropriately labeled herbicides with low toxicity ratings are applied using low-volume, selective handheld application methods when there is no surface water present.

From initial field survey's including the mapping of all "sensitive areas" by TRC Engineering Services during the permit process, and two field survey's by VCS senior consulting staff, there are only a few wetlands that meet the criteria of Chapter 26 (no great ponds, only a few characterized by visible surface water or dominated by emergent or aquatic plants). All crew personnel are also trained to the specifics of the Kibby project before being allowed to apply herbicides to the right-of-way.

The plan for 2015 is to use hand cutting and back pack hand pumps in the designated wetlands under Chapter 26. These are areas in which there are few target species, which tend to grow at a slower rate due to the wetland conditions.

We request that the board review this Variance Application as an initial review of the *Vegetation Management Plan* approved by LURC and Maine DEP in 2011. Future application in wetlands would benefit from a selective, directed spray by motorized pack back applications that allow the applicator to minimize the impact to non-target organisms in the understory.

Thank You for the opportunity to submit this request,

Jeffrey M. Taylor, ISA Arborist