BDR Data Collection Plan: or The Goldilock's Guide to BDR Data Collection



Michelle Albanese and Lisa McLaughlin LTA Conference - Salt Lake City, Utah October 1, 2012

Learning Objectives

The BDR Data Collection Plan.....

- Why it is a must use tool
- How to develop a BDR data collection plan for each Easement.
- How it can streamline the field data collection,
 BDR report writing and future monitoring

What's the Problem?

Contractors BIG 6 staff 9000 \$\$\$^2 week in the office acres

~2 week in the field

Habitats

Reserved Rights

Framing BDR Data Collection



Why is it a must use tool?

- Strategize over what data to collect
- Streamlines process, saving time and money
- Supports future monitoring and enforcement - upholds the Purpose and Intent of the CE



Learning Objectives

The BDR Data Collection Plan.....

- Why it is a must use tool.
- How to develop a BDR data collection plan for each Easement.
- How it can simplify the field data collection, BDR report writing (and subsequent monitoring!)



Documenting the Purpose and Intent

- What data would validate the Purpose and Intent of the CE?
- How best can I collect it?
- Do I need any special equipment?

Purpose Data Collection

Purpose and	Data needed to	Method of
Intent	Confirm the P/I	documentation
	statement	
Each element of the purpose statement	 Identify what data you need to confirm/provide evidence that the property supports the purpose 	 What methods of data collection would most efficiently get you this data (i.e. referencing existing report? Your own data collection? Personal Communication with a credible source?)
Each element of the purpose statement		

Purpose and Intent Statement

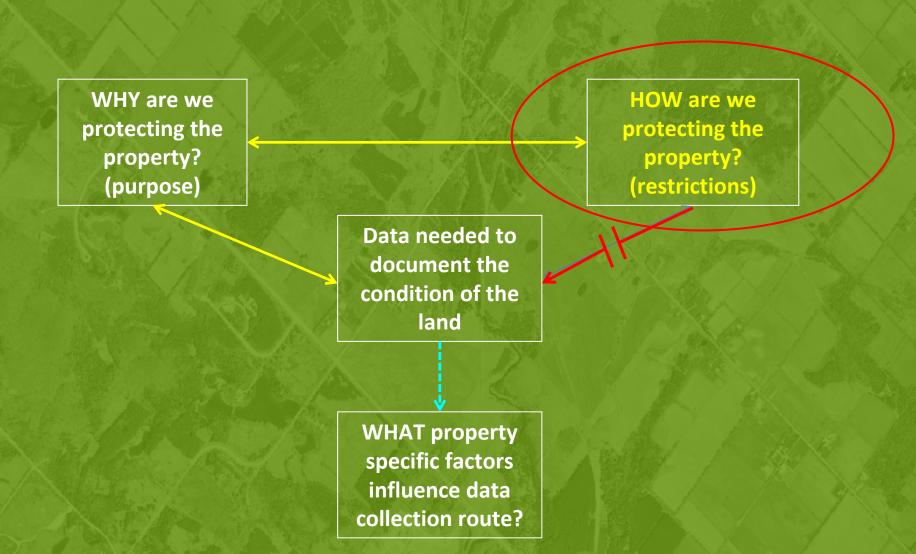
Without limiting the generality of sections 2.1 and 2.2 hereof, it is the intention of the parties hereto....:

- Riparian habitat of the Trundle River
- Overwintering habitat for ungulates; and
- Open space as a wildlife movement corridor

Purpose and	Data needed to	Method of		
Intent	Confirm the P/I	Documentation		
Riparian habitat of the Trundle River	 the location of the river and extent to which we are considering the riparian area. any special status (ex. Designated Significant Habitat) habitat type(s) 	 GIS layer (do we have it? can we get it?) Research reports (any gov contacts?) Primary (field) data collection supported by geo-referenced (with accuracy) photographs (is this right season?) 		
Overwintering habitat for ungulates	• ?			
Open space as a wildlife movement corridor	• ?	Incidental wildlife observations		

Purpose and	Data needed to	Method of
Intent	Confirm the P/I	Documentation
	statement	
Riparian habitat of the Trundle River	 the location of the river and extent to which we are considering the riparian area. any special status (ex. Designated Significant Habitat) habitat type(s) 	 GIS layer (do we have it? can we get it?) Research reports (any gov contacts?) Primary (field) data collection supported by geo-referenced (with accuracy) photographs (is this right season?)
Overwintering habitat for ungulates	 Evidence that this property supports overwintering habitat for ungulates. habitat type(s) 	 Research papers, government reports, pers comms? (evaluate credibility of pers comm.) Primary (field) data collection supported by geo-referenced (with accuracy) photographs
Open space as a wildlife movement corridor	 Evidence that this property functions as a wildlife movement corridor 	Research papers, government reports, pers comms (same person as for ungulates? Or do we need other s?)

Framing BDR Data Collection



Restriction Data Collection Table

Restriction	Data required to document condition of the land and determine change	Data Collection Methods	Equipment
1. VERBATIM RESTRICTION FROM CE	What do I need to collect?	How will I collect it?	Special equipment required?
2. VERBATIM RESTRICTION FROM CE			

RESTRICTION EXAMPLE:

CONSTRUCTION/BUILDINGS/STRUCTURES

No construction of additional buildings, structures, roads, or facilities.

Restriction Data Collection Table

Restriction	Data required to document condition of the land and determine change	Data Collection Methods	Equipment
No construction of additional buildings, structures, roads or facilities	What is present at the time of closing? Location and function?	Aerial mapping Walk the property	Camera GPS

No construction of additional buildings, structures, roads, or facilities without the prior written approval of the land trust, other than within the building envelope, identified in Schedule Map "A".

What structures are present at the time of closing? Where are they located?

Any approvals granted? (FILES)

Where is the building envelope? Must map it

*Not necessary to document structures in the building envelope

No construction of additional buildings, structures, roads, or facilities, without prior written approval of the land trust, other than within the building envelope and identified in Schedule Map "A"

With an exception where the Landowner may maintain, replace and repair the Existing Facilities (outside of building envelope) but shall be kept to their current size and location.

What is the current size (foot print, height) of all the structures outside of the building envelope

RESTRICTION EXAMPLE:

VEHICLE USE

No vehicle use off of existing roads and trails which may result in erosion or compaction of the soil.

What data do I need to collect?

Ask yourself.....

Are there definitions of roads and trails?

Where (geo-ref length, width) are the existing roads and trails? Consistent with the definition? Document in what way they are consistent or are NOT consistent

Any erosion caused by vehicles off road and trails at the time of signing?

Yes: where, extent, pictures

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Framing BDR Data Collection



From the Field to the BDR

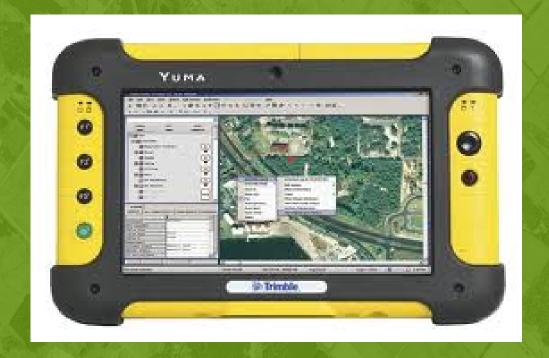
Improvement Type ⁴	Function	Description		Con	ditions		Photo Reference Point Label ^{2,3}
			Size	Height	Principle Material	Condition Rating ¹	
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From the Field to the BDR

AND TREASE NAME OF	Trail Type ⁴	Function	Description		Con	ditions		Photo Reference Point Label ^{2,3}
1				Length	Width	Principle Material	Condition Rating ¹	
A 855 A								
1				1				

Improvement Type ⁴	Function	Description	Size	Height	Principle Material	Condition Rating ¹	Photo Reference Point Label ^{2,3}
	Permanent and temporary	East Perimetor Ence - 4 strand borbed wire Coortially Rened)	450 m in Leyth	lol m	wood posts, barbed wire	Poor	B16, 85
fences	enclosures for the	West permeter level 4-strand burbed wire	800 m length	102 m	posts, barbed	Good	B11a, B12a
	purposes of containing livestock	North perimeter fence -3 strond borbed wive contially fenced)	150 m	1.2 m	wood posts, barbed wire	Dilapitaded	B10a
Marker - Sash Powor Linderground Line	Communications	SashPower	NA	lotm	(under ground) wooden pole + metal sign	Good	B2
Natival Spright Well water Trough	Water for Livestock	Spring fed well with gravity fed trough	5m x 15m	1.0 m	soil, Vegetation	Good	B4
Natival Sprij- Water Well	Water	Spring fed weel	0.3 m diameter	1.0 m	culvert	Good	86

 Where data collectors were using the Trimbles: collection sheets were loaded



Improvement Type⁴	Function	Description	Size	Height	Principle Material	Condition Rating ¹	Photo Reference Point Label ^{2,3}
	Permanent and	East Perimeter Fence, 4-strand barbed wire (partially fenced)	450 m	1.1 m	Wood posts, barbed wire	Poor	B1b, B5
Fences	temporary enclosure for the purposes of	West Perimeter Fence, 4-strand barbed wire	800 m	1.2 m	Wood posts, barbed wire	Good	B11a, B12a
	containing livestock	North Perimeter Fence, 3-strand barbed wire (partially fenced)	150 m	1.2 m	Wood posts, barbed wire	Dilapidate d	B10a
Marker - SaskPower Underground Line	Communicat ion	SaskPower underground power line marker	N/A	1.4 m	Cable (undergr ound) Wooden pole and metal sign	Good	B2
Natural Spring – Well and Water Trough	Water for livestock	Spring fed well with gravity fed trough	5.0 m x 15.0 m	1.0 m	Soil, vegetatio n	Good	B4
Natural Spring - Water Well	Water well	Spring fed well	0.3 m diameter	1.0 m	Culvert	Good	B6

How well do you know your equipment?

Know how to boost accuracy on your GPS?

Does your GPS collect and store accuracy?

 Has the time/date stamp on your GPS and camera have been set?

RESTRICTIONS (From BDR Template)

Table 7. Condition of the Property with Respect to the Restrictions

Restriction	Data Collection Method	Findings	Documentation
2.2 The cultivation, breaking or destruction of native plant communities.	A walk-through of the Property was conducted in order to verify features visible on the satellite photo. Plant communities were geo-referenced / mapped. The size/extent of dominant native plant communities was documented using GIS.	There are 26 acres of tame pasture on the property. No other evidence of cultivation, breaking, or destruction of native plant communities on the Property.	Refer to Figure 1 for locations of Dominant Vegetation Communities.

Restriction	Data Collection	Findings	Documentation
	Method		
2.4 The	A walk-through of the	The fences present	Refer to Table 5
construction of	Property in order to	are perimeter	and Figure 5 for
additional	verify features visible	fencing and cross	details and
structures or	on the satellite photo.	fencing, varying in	location of
fencing that	Presence / absence,	length, type and	current
consists of	photographs and geo-	condition. Majority	structures.
more than 4	referenced location of	of fencing is 3-	
strand barb	structures were	strand barbed wire	
wire.	recorded	and 4-strand barbed	
		wire, however there	
		are some small	
		sections of 5-strand	
		barbed wire and	
		page wire. Two	
		spring-fed water	
		wells, and two	
		dilapidated water	
		troughs are present	
		on the property.	

Conclusions

- Can't replace good planning
- One more way to approach BDR data collection
- More time up front can save you more time in the end





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