## Hatfield-1202: Identify rivers, lakes and wet areas to apply safe setback distances

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## Challenge

Thematic accuracy:

Required formats:

Not specific

Not Specific

Challenge ID:	HCP-1202		Originator:	Onshore:	Hatfield		
Title:	Identify rivers, lakes and wet areas to apply safe setback distances.						
Theme:	ON 1.2: Seismic Planning - Identification of adverse terrain for trafficability						
Consortium	RPS Group		Interviewed RPS Group				
Lead:	1		Company:		чр		
Geography:	ON.REG.00 - Generic onshore						
Challenge Description							
What is not possible / not adequately addressed at present?							
Water bodies and wet areas need to be mapped to ensure proper setbacks are applied. Small lakes, rivers and wet areas may be inadequately mapped. It is important to avoid surface water and any potential impact on potable water.							
What effect does this challenge have on operations?							
Without up to date information, on the fly changes may be required to line design and gaps in source acquisition occur. Sufficient mitigation is more likely with adequate advance knowledge.							
Thematic inform	nation	Water quantity					
requirements:		Distribution and status of infrastructure					
Topographic information  What do you commently do to address this shallenge?							
What do you currently do to address this challenge? How is this challenge conventionally addressed?							
Topographic maps, aerial photography and other available satellite images. Review historical data to look for							
seasonal changes. Use LiDAR data where available.							
What kind of solutions do you envisage could address this challenge?							
Derive water courses based on DEM. Map of water bodies including under forest canopy.							
What is your view on the capability of technology to meet this need?							
Are you currently using EO tech? If not, why not?							
LiDAR survey and high-resolution satellite imagery is expensive. Seasonal variation in water bodies and wet							
areas requires multi-temporal and wet season imagery.							
Challenge Classification Impact on Lifecycle (0=none,							
4=high):		Climate / Topography / Urgency:		Topography / Urgency:			
Pre-license:		2	Climate class:		Generic climate		
Exploration:		4	Topographic o	class:	Not specific		
Development:		2	Seasonal varia		Any season		
Production:		2	Impact area:		Environmental, Cost reduction, Data Quality		
Decommissioni	ng:	2	Technology un	rgency:	3 - Immediately (0-2 years)		
Challenge Info	Challenge Information Requirements						
Update frequenc	cy:	Snapshot					
Data currently u	sed: Reconnaissance, DEM, high resolution imagery (including Google Earth)						
Spatial resolution	on:	Basin					

Timeliness (Vintage):	Within six months			
Geographic extents:	Regional, Basin			
Existing standards:	None			

## Relevant products

## Content by label

There is no content with the specified labels