

# Pipeline Geohazards

## Freedom Gas - 20G-1111

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Environmental Services Inc.	710.493.1281
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Austin, TX 77380	https://environmental.com
Freedom Gas	20G-1111

### Project: 20G-1111-Arlington Park - Geo

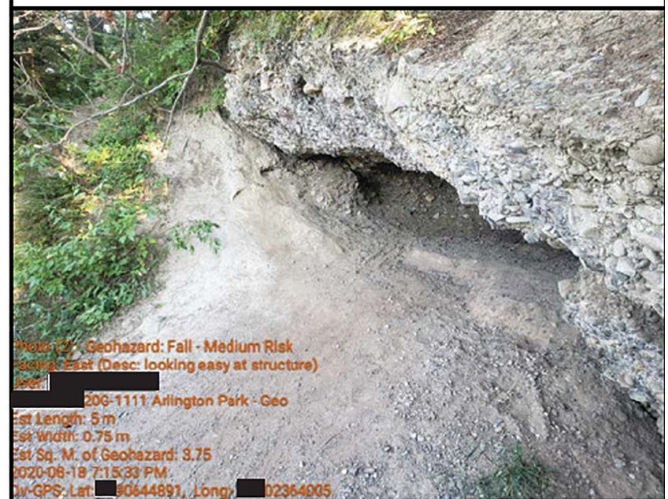
#### Geohazard added on 8/18/2020

Geohazard Type	Fall	Geohazard Risk Level	Medium
Location of Geohazard	On-Access (including buffer)	Estimating in Feet or Meters?	Meters
Length of Geohazard	5 Meters	Width of Geohazard	0.75 Meters
Depth of Geohazard	0.5 Meters	Distance to ROW Boundary or Access (Off-Site only)	
Area of Geohazard	3.75 Sq. Meters	Depth of Cover Information Added?	No
Depth of Cover Measured or Estimated?		Measurement/Estimation Method	
Depth of Cover		Device or External GPS?	My Device's GPS
Lat/Long	XX.90644891 -XXX.02364005	Geohazard Comments	potential fall

Geohazard Photo 1



Geohazard Photo 2

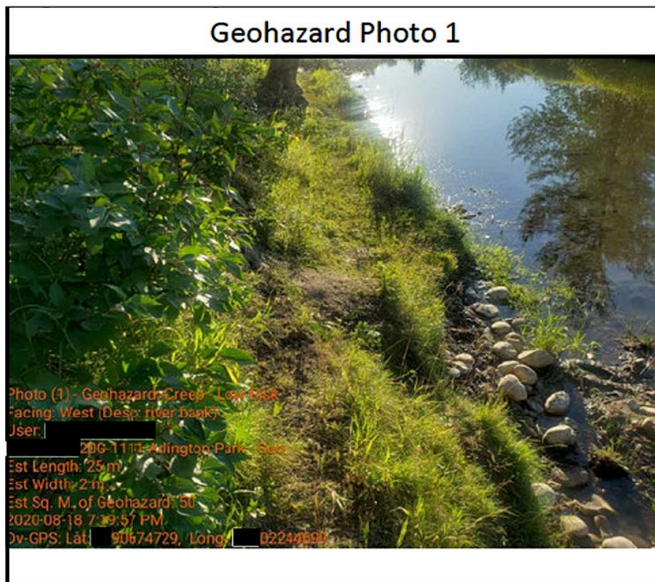


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Project: 20G-1111-Arlington Park - Geo			
Geohazard added on 8/18/2020			
Geohazard Type	Creep	Geohazard Risk Level	Low
Location of Geohazard	Off-Site	Estimating in Feet or Meters?	Meters
Length of Geohazard	25 Meters	Width of Geohazard	2 Meters
Depth of Geohazard	0.25 Meters	Distance to ROW Boundary or Access (Off-Site only)	15 Meters
Area of Geohazard	50 Sq. Meters	Depth of Cover Information Added?	Yes
Depth of Cover Measured or Estimated?	Estimated	Measurement/Estimation Method	
Depth of Cover	2.5 Meters	Device or External GPS?	My Device's GPS
Lat/Long	XX.90674729 -XXX.02244699	Geohazard Comments	river bank





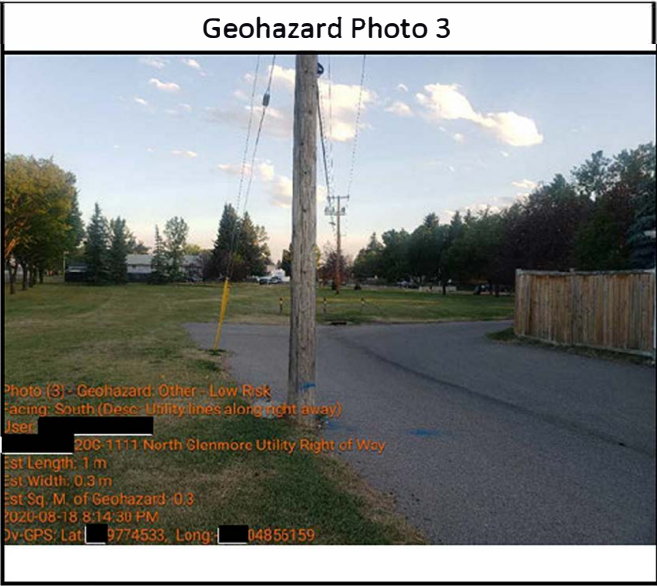
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## Freedom Gas - 20G-1111

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Project: 20G-1111-North Glenmore Utility Right of Way			
Geohazard added on 8/18/2020			
Geohazard Type	sewer infrastructure along right of way	Geohazard Risk Level	Low
Location of Geohazard	On-Right of Way (including buffer)	Estimating in Feet or Meters?	Meters
Length of Geohazard	1 Meters	Width of Geohazard	0.3 Meters
Depth of Geohazard	2 Meters	Distance to ROW Boundary or Access (Off-Site only)	
Area of Geohazard	0.3 Sq. Meters	Depth of Cover Information Added?	No
Depth of Cover Measured or Estimated?		Measurement/Estimation Method	
Depth of Cover		Device or External GPS?	My Device's GPS
Lat/Long	XX.9774533 -XXX.04856159	Geohazard Comments	Sample of data capture





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Project: 20G-1111-NE Corner of 42nd Ave and Blackfoot Trail SE

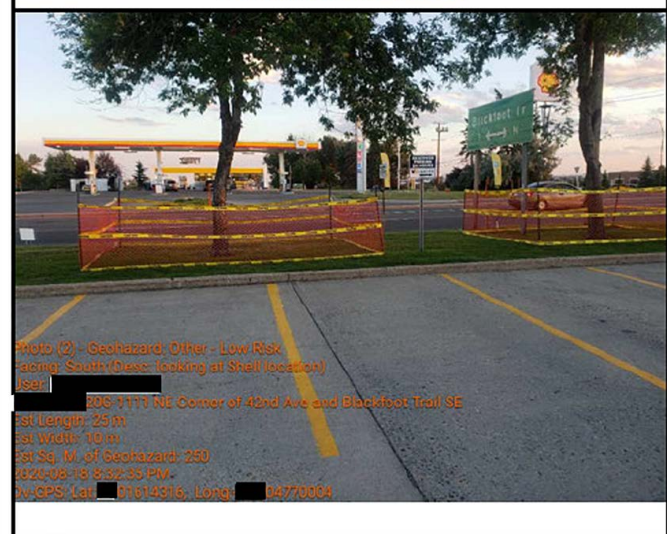
Geohazard added on 8/18/2020

Geohazard Type	Reclaimed area after cathodic protection dig and repair. 2019 dig	Geohazard Risk Level	Low
Location of Geohazard	On-Right of Way (including buffer)	Estimating in Feet or Meters?	Meters
Length of Geohazard	25 Meters	Width of Geohazard	10 Meters
Depth of Geohazard	0 Meters	Distance to ROW Boundary or Access (Off-Site only)	
Area of Geohazard	250 Sq. Meters	Depth of Cover Information Added?	Yes
Depth of Cover Measured or Estimated?	Estimated	Measurement/Estimation Method	
Depth of Cover	1.5 Meters	Device or External GPS?	My Device's GPS
Lat/Long	XX.01614316 -XXX.04770004	Geohazard Comments	Reclamation and repair around trees along right of way on north side of 42nd ave

Geohazard Photo 1



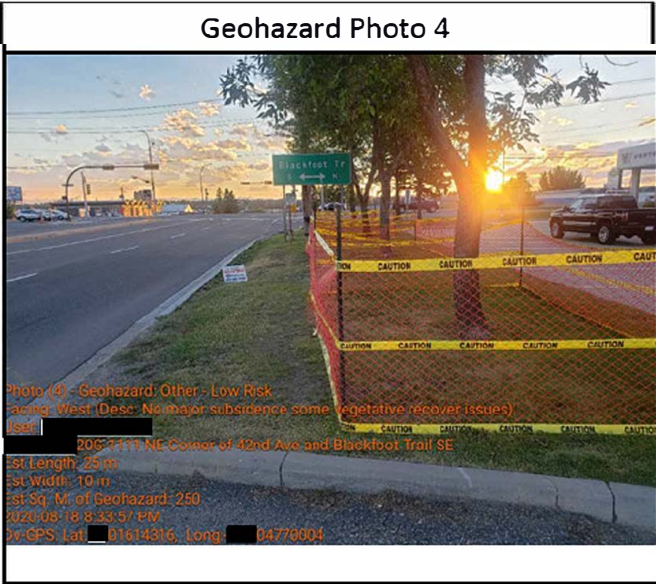
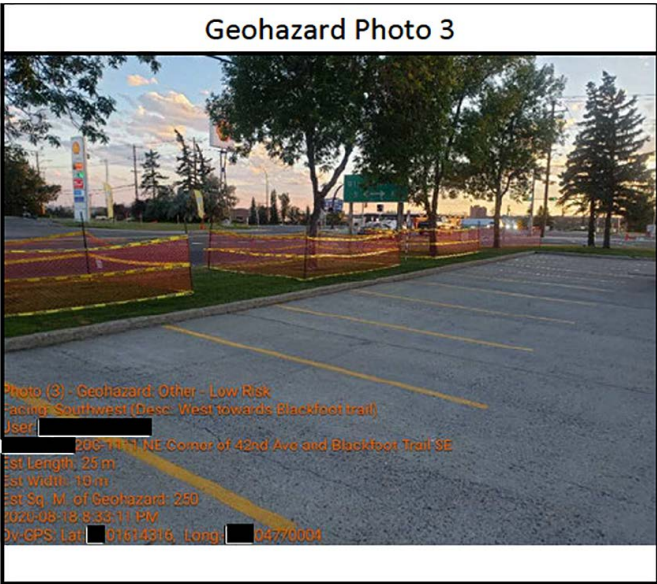
Geohazard Photo 2





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## Freedom Gas - 20G-1111

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Project: 20G-1111-Bow River Crossing			
Geohazard added on 8/18/2020			
Geohazard Type	Flow	Geohazard Risk Level	Medium
Location of Geohazard	On-Access (including buffer)	Estimating in Feet or Meters?	Meters
Length of Geohazard	1.25 Meters	Width of Geohazard	0.25 Meters
Depth of Geohazard	Meters	Distance to ROW Boundary or Access (Off-Site only)	
Area of Geohazard	0.31 Sq. Meters	Depth of Cover Information Added?	No
Depth of Cover Measured or Estimated?		Measurement/Estimation Method	
Depth of Cover		Device or External GPS?	My Device's GPS
Lat/Long	XX.95545696 -XXX.04225171	Geohazard Comments	Looks like downhill run off adjacent to access path potential impact along river.



