Supplementary Material

Figure S1. Echograms of sonar transects with identified plumes

Backscatter Boat Transect # 16
Depth (m)
0
-5
-10
100
200
300
400
500
600
700
800
900
Ping #

Backscatter Boat Transect # 16 with plume from potential SGD
Depth (m)
0
-5
-10
100
200
300
400
500
600
700
800
900
Ping #

Backscatter Boat Transect # 17
Depth (m)
0
-5
-10
100
200
300
400
500
600
700
Ping #

Backscatter Boat Transect # 17 with plume from potential SGD
Depth (m)
0
-5
-10
100
200
300
400
500
600
700
Ping #

Backscatter Boat Transect # 18
Depth (m)
0
-5
-10
100
200
300
400
500
600
700
Ping #

Backscatter Boat Transect # 18 with plume from potential SGD
Depth (m)
0
-5
-10
100
200
300
400
500
600
700
Ping #

Backscatter Boat Transect # 19
Depth (m)
0
-5
-10
100
200
300
400
500
600
700
800
900
Ping #

Backscatter Boat Transect # 19 with plume from potential SGD
Depth (m)
0
-5
-10
100
200
300
400
500
600
700
800
900
Ping #

Backscatter Boat Transect # 20
Depth (m)
0
-5
-10
100
200
300
400
500
600
700
800
Ping #

Backscatter Boat Transect # 20 with plume from potential SGD
Depth (m)
0
-5
-10
100
200
300
400
500
600
700
800
Ping #

Backscatter Boat Transect # 21
Depth (m)
0
-5
-10
100
200
300
400
500
600
700
800
Ping #

Backscatter Boat Transect # 21 with plume from potential SGD
Depth (m)
0
-5
-10
100
200
300
400
500
600
700
800
Ping #

Backscatter Boat Transect # 23
Depth (m)
0
-5
-10
500
1000
1500
2000
2500
Ping #

Backscatter Boat Transect # 23 with plume from potential SGD
Depth (m)
0
-5
-10
500
1000
1500
2000
2500
Ping #

Backscatter Boat Transect # 24
Depth (m)
0
-5
-10
1000
2000
3000
4000
5000
6000
Ping #

Backscatter Boat Transect # 24 with plume from potential SGD
Depth (m)
0
-5
-10
1000
2000
3000
4000
5000
6000
Ping #

Backscatter Boat Transect # 26
Depth (m)
0
-5
-10
200
400
600
800
1000
1200
1400
Ping #

Backscatter Boat Transect # 26 with plume from potential SGD
Depth (m)
0
-5
-10
200
400
600
800
1000
1200
1400
Ping #

Backscatter Boat Transect # 22
Depth (m)
0
-5
-10
100
200
300
400
500
600
700
800
900
Ping #

Backscatter Boat Transect # 25
Depth (m)
0
-5
-10
200
400
600
800
1000
1200
1400
Ping #

Figure S2. Salinity, pH, and ORP depth profiles

Figure S3. Spatial Distribution of environmental parameters split in transects according to Figure 13 (a)

T Transect # 6
EC Transect # 6
Salinity Transect # 6
DO Transect # 6
FDOM Transect # 6
ORP Transect # 6
T Transect # 7
EC Transect # 7
Salinity Transect # 7
DO Transect # 7
FDOM Transect # 7
ORP Transect # 7
T Transect # 8
EC Transect # 8
Salinity Transect # 8
DO Transect # 8
FDOM Transect # 8
ORP Transect # 8
T Transect # 9
EC Transect # 9
Salinity Transect # 9
DO Transect # 9
FDOM Transect # 9
ORP Transect # 9
T Transect # 10
EC Transect # 10
Salinity Transect # 10
DO Transect # 10
FDOM Transect # 10
ORP Transect # 10
Depth (m)
x (m)
T (°C)
EC (mS/cm)
S (PSU)
DO (mg/L)
FDOM (µg/L)
ORP (mV)

T Transect # 11
EC Transect # 11
Salinity Transect # 11
DO Transect # 11
FDOM Transect # 11
ORP Transect # 11
Depth (m)
x (m)
×10^6
T (°C)
EC (mS/cm)
S (PSU)
DO (mg/L)
FDOM (µg/L)
ORP (mV)