THE SHORES PHASE 1 SUBDIVISION - SITE MONITERING PROGRAM

Period: 20-Oct to 27-Oct

The structure of this form was developed by Thurber Engineering Ltd. (Thurber) for the exclusive use of the District of Sechelt. This form may be revised as required by Thurber.
A condition of the use of this form is that Thurber's performance of its professional services is subject to the Statement of Limitations and Conditions.

Date: 10/27/2017 File Number: 3341-79 (2015 Sinkhole) Inspector: Adam Bullock, EIT Recent Rainfall: 10.2mm in past 7 days

Reviewed By: Sanath Bandara, P.ENG

Developments since last inspection: Minimal changes since last visit, reduced or similar surface ponging

This form should only be used in conjunction with the instructions printed on Page 7. File Version # 5

Item #	Location	Description	Changed?	Comments, description, qualifiers, measurements, photo numbers, etc.
1	Gale Avenue N (closed section)	Status of Road Closure	No	Road Remains Closed
2	Gale Avenue N (closed section)	Cracking/settlement of asphalt/curbs?	No	No visually apparent changes since last inspection
3	Gale Avenue N at Lot 9	Cracking/settlement of asphalt/curbs?	No	No visually apparent changes since last inspection
4	Sinkhole in front of Lot 9	Settlement, undermining of road/driveway.	No	No visually apparent changes since last inspection
5	SRW at Lots 9/10 from MH10 to outlet	Any settlement/depressions, springs in storm corridor?	No	No visually apparent changes since last inspection
6	Gale Avenue N at Lot 21	Cracking/settlement of asphalt/curbs?	No	No visually apparent changes since last inspection
7	Sinkhole at Lot 21	Soil cracking, backfill settlement, poly covering, stair movement?	No	No visually apparent changes since last inspection
8	Sinkhole at Lot 21	Condition of driveway and dwelling.	No	No visually apparent changes since last inspection
9	Gale Avenue N (east of closed section)	Cracking/settlement of asphalt/curbs?	No	No visually apparent changes since last inspection
10	Gale Avenue N (east of closed section)	Seepage/sand deposits from under driveways/roads/structures?	No	No visually apparent changes since last inspection
11	Rock Stack Walls at Lots 19-21	Signs of instability, distress	No	No visually apparent changes since last inspection
12	Gale Avenue N (west of closed section)	Cracking/settlement of asphalt/curbs?	No	No visually apparent changes since last inspection
13	Gale Avenue N (west of closed section)	Seepage/sand deposits from under driveways/roads/structures?	No	No visually apparent changes since last inspection
14	Crowston Road (Seawatch to Gale Ave N)	Cracking/settlement of asphalt/curbs?	No	No visually apparent changes since last inspection
15	Crowston Road at Lot 29	Storm inlet, any flow? Rate/turbidity?	No	No Inflow
16	Crowston Road ditches at Borrow Access	Flow rate in West/East ditches?	No	No flow
17	Borrow area south of site	Ponding, seepage and runoff on walls, instabilities?	Yes	Surface ponding from recent rain, reduced since last inspection
18	Seawatch Lane at Lot 28	Status of Cracking/Depression in asphalt	No	No visually apparent changes since last inspection
19	Seawatch Lane at Lot 28	Survey of control points (if required)	No	No visually apparent changes since last inspection
20	Seawatch Lane at Lot 29	Any new erosion, settlement/depressions in curb/ditch?	No	No visually apparent changes since last inspection
21	Lot 28	Any new erosion/rilling, settlement/depressions, springs?	No	No visually apparent changes since last inspection
22	Seawatch Lane at Lots 24 - 27	Cracking/settlement of asphalt/curbs?	No	No visually apparent changes since last inspection
23	Seawatch Lane at Lots 15 - 23	Cracking/settlement of asphalt/curbs?	No	No visually apparent changes since last inspection
24	Lot 22	Status of apparent scarp at south end of lot	No	No visually apparent changes since last inspection
25	Lot 22	Any new erosion/rilling, settlement/depressions, springs?	No	No visually apparent changes since last inspection
26	Rock Stack Walls at Lots 22 to 24	Signs of instability, distress	No	No visually apparent changes since last inspection
27	Seawatch Ln at cut slope (Sta. 2+20 to 2+60)	Status, signs of instability, major recent erosion?	No	No visually apparent changes since last inspection
28	Path east of Lot 1	Wet areas / springs / seeps	Yes	Path appears to have gotten wetter since last inspection
29	Lot 1 - Collection Ponds	Water levels, turbidity?	No	Minor surface ponding, ground is saturated from recent rain

Supplementary comments can be made in the space provided on Pages 3 & 4. Please refer back to the initial item number. New items can also be written in.

THE SHORES PHASE 1 SUBDIVISION - SITE INSPECTION REPORT

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Date: 10/27/2017 File Number: 3341-79 (2015 Sinkhole) Inspector: Adam Bullock, EIT

This form should only be used in conjunction with the instructions printed on Page 7.

Item #	Location	Description	Changed?	Comments, description, qualifiers, measurements, photo numbers, etc.
30	Lot 1	Any new erosion/rilling, settlement/depressions, springs?	No	No visually apparent changes since last inspection
31	Storm outfall NE of Lot 1	Turbidity/rate of flow, compared to inflow at Crowston Rd	No	Minimal outflow, low turbidity from visual inspection
32	PVC drain at Storm outfall NE of Lot 1	Turbidity / rate of outflow	No	Minimal outflow, low turbidity from visual inspection
33	Lot 2	Any new erosion/rilling, settlement/depressions, springs?	No	No visually apparent changes since last inspection
34	Lot 2	Existing slow spring. Rate/turbidity of flow. Sand boil.	No	No visually apparent changes since last inspection
35	Lot 3	Any new erosion/rilling, settlement/depressions, springs?	No	No visually apparent changes since last inspection
36	Lot 3	Existing spring area. Rate/turbidity of flow. Size of area.	No	No visually apparent changes since last inspection
37	Lot 3 Spring Control Works	Lift MH covers, Rate/turbidity of flow up from sand?	No	Low turbidity, some sediment in pictures from lifting MH covers but cleared quickly
38	SRW below Lot 3	Rate/turbidity of flow from PVC drain on downslope side of bench.	No	No visually apparent changes since last inspection
39	Lot 4	Any new erosion/rilling, settlement/depressions, springs?	No	No visually apparent changes since last inspection
40	Lot 5	Any new erosion/rilling, settlement/depressions, springs?	No	No visually apparent changes since last inspection
41	Lot 6	Any new erosion/rilling, settlement/depressions, springs?	No	No visually apparent changes since last inspection
42	SRW below Lots 1 through 6	Erosion, settlement, springs, ponding of water, etc.?	No	No visually apparent changes since last inspection
43	SRW below Lots 7 through 12	Erosion, settlement, springs, ponding of water, etc.?	No	No visually apparent changes since last inspection
44	Storm outfall below Lots 9/10	Turbidity/rate of flow, infilling of outlet, sample (if req.)	No	Steady flow, minimal turbidity, silt levels remain high, no visually apparent changes since last inspection
45	Lot 11	Any new erosion/rilling, settlement/depressions, springs?	No	No visually apparent changes since last inspection
46	Lot 12	Any new erosion/rilling, settlement/depressions, springs?	No	No visually apparent changes since last inspection
47	Lot 12	Status of slow spring/seep and ponds.	No	Ponding still on surface but no apparent changes since last inspection
48	Storm outfall below Lot 12	Turbidity/rate of flow, infilling of outlet.	No	No visually apparent changes since last inspection
49	PVC drain at Storm outfall below Lot 12	Turbidity / rate of outflow	No	No visually apparent changes since last inspection
50	Drains and Collection Pond North of Lot 13	Turbidity / rate of outflow, infilling of pond.	No	No visually apparent changes since last inspection
51	Lot 13	Any new erosion/rilling, settlement/depressions, springs?	N/A	Didn't visit as per homeowner request
52	Lot 13	Status of wet areas	N/A	Didn't visit as per homeowner request
53	Lot 14	Any new erosion/rilling, settlement/depressions, springs?	N/A	Didn't visit as per homeowner request
54	Lot 14	Status of wet areas	N/A	Didn't visit as per homeowner request
55	Lot 15	Any new erosion/rilling, settlement/depressions, springs?	No	No visually apparent changes since last inspection
56	Lot 15	Status of wet areas	No	No visually apparent changes since last inspection
57	Lots 16 to 18	Any new erosion/rilling, settlement/depressions, springs?	No	No visually apparent changes since last inspection
58	Seawatch Lane at Lot 29	Apparent hole in asphalt	No	No visually apparent changes since last inspection

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Date: 10/27/2017 File Number: 3341-79 (2015 Sinkhole) Inspector: Adam Bullock, EIT

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Item #	Date	Location	Description	Changed?	Comments, description, qualifiers, measurements, photo numbers, etc.
59	N/A	Lot 29	Any Anomolies or Changes	No	No visually apparent changes since last inspection.
60	N/A	SRW below Lot 5	Rate/turbidity from PVC drain downslope of bench.	No	No visually apparent changes since last inspection.
61	N/A	Wet Seepage Area below Lot 4	Turbidity / Rate of Outflow	No	No visually apparent changes since last inspection.
62	N/A	Storm MH4A Inspection	Turbidity / Rate of Outflow of Storm Laterals	No	No visually apparent changes since last inspection.
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THE SHORES PHASE 1 SUBDIVISION - SITE INSPECTION REPORT

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Date: 10/27/2017 File Number: 3341-79 (2015 Sinkhole) Inspector: Adam Bullock, EIT

This form should only be used in conjunction with the instructions printed on Page 7.

Item #	Date	Location	Description	Changed?	Comments, description, qualifiers, measurements, photo numbers, etc.
88				(Yes / No)	
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THE SHORES PHASE 1 SUBDIVISION - SITE INSPECTION REPORT

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Date Range: 20/01/2016 - 20/10/2017 File Number: 3341-79 (2015 Sinkhole) Inspector: Adam Bullock, EIT

This form should only be used in conjunction with the instructions printed on Page 5.

Groundwater Monitoring

Well Name	BH12-01	BH12-02	BH12-03	BH12-05	BH12-06	BH12-07	BH12-08	BH12-09	TH13-01	TH13-07	TH13-08	TH13-09 (Shallow)	TH13-09 (Deep)	TH15-03	
Surface El. (m)	**24.83**	**9.92**	**9.97**	**38.6**	**23.37**	**26.39**	**37.69**	**45.43**	**46.32**	**27.8**	**10.86**	**7.38**	**7.38**	**23.01**	
Well Depth (m)	**7.0**	**6.2**	**5.8**	**12.1**	**11.3**	**6.6**	**14.1**	**19.6**	**14.7**	**10.4**	**6.1**	**1.4**	**3.0**	**9.1**	
Date Measured	**Depth to Groundwater (m) - to nearest centimeter (if well dry, write 'Dry')**														**Comments**
Jan 20th, 2016	4.88	2.97	2.01	8.72	7.92	4.94	11.34	17.32	DRY	4.6	2.55	0.62	1.02	7.40	Significant water level changes on BH 12-05 & BH 12-07
Jan 28th, 2016	5.31	2.94	2.09	8.35		4.55		17.29	DRY	4.67	2.66	0.45	0.99	7.40	BH 12-06 Full of water, drained, readings comprimised.
Feb 16th, 2016	5.3	2.94	2.09	8.31	7.93	4.84	11.06	17.04	DRY	4.42	2.67	0.49	1.01	7.39	
Feb 25th, 2016	5.29	3	2.23	8.06	7.9	4.88	10.97	16.88	14.65	4.38	2.63	0.73	0.99	7.4	BH 13-07 has a reading for first time since May 26, 2015
Mar 14th, 2016	5.25	2.94	2.2	8.03	7.89	4.82	10.92	16.88	14.62	4.4	2.57	0.47	0.98	7.39	Outfall water clear.
Mar 31st, 2016	5.26	3	2.25	8.08	7.92	4.49	10.87	16.69	14.2	4.49	2.55	0.79	1	7.28	13-07 corrected
April 15th, 2016	5.35	3.04	2.29	8.37	7.93		10.96	16.75	14.18	4.63	2.53	1	0.93	7.21	12.07 flooded.
May 6th, 2016	5.35	3.12	2.35	8.54	7.95	4.65	11	16.85	14.28	4.76	2.58	1.02	0.95	7.4	Waterlevels down in some BH,
May 24th, 2016	5.36	3.11	2.29	8.77	7.96	4.86	11.16	16.99	DRY	4.97		1.02	0.98	7.42	13-01 Dry, Water Levels Down
June 20th, 2016		3.07	2.27	8.97	7.98	4.34	11.06	17.16	DRY	4.66		1.04	0.78	7.4	
June 28th, 2016				9.05	7.97	4.94	11.33	17.2	DRY					7.4	Partial Inspection due to time constraints.
August 4th, 2016	5.4	3.08	2.27	9.08	7.97	5.01	11.31	17.4	DRY	5.09	2.17	1.04	0.97	7.41	
August 8th, 2016	5.41	3.07	2.29	9.32	7.98	5.03	11.49	17.43	DRY	5.08	2.19	0.97	1.03	7.39	Readings by Thurber
August 19th, 2016	5.42	3.14	2.31	9.45	7.98	5.11	11.54	17.5	DRY	5.08	2.2	1	1.06	7.41	
October 3rd, 2016	5.42	3.09	2.27	9.78	7.99	5.06	11.68	17.7	DRY	5.02	2.18	0.88	1.08	7.41	
January 13th, 2017				9.11						4.9				7.41	Most covers coverd in snow & frozen. Will revisit when thawed.
June 16th, 2017	5.32	3.04	2.26	8.44	7.95	4.9	Burried	16.377	14	4.58		0.88	1.04	7.41	Borehole 13-08 & 12-08 unaccesible. Will bring shovel next visit.
July 31st, 2017	5.95	3.09	2.33	8.82	7.98	5.01	11.85	17.03	14.62	4.97	2.5	1	1.08	7.42	
September 22nd, 2017	5.3	3.09	2.29	9.21	8.01	5.04	burried	17.34	DRY	5.11		0.82	1.14	7.39	13-08 under water, 12-08 burried, will bring shovel
September 29th, 2017	5.25	3.05	2.32	9.25	7.98	5.03	Burried	17.38	DRY	5.14		0.94	1.09	7.4	13-08 underwater, 12-08 burried
October 6th, 2017	5.15	3.1	2.3	9.22	8	5.03	11.49	17.37	DRY	5.08		0.9	1.08	7.42	
October 13th, 2017	5.3	3.11	2.11	9.35	7.98	5.03	11.53	17.38	DRY	3.05		0.61	1.09	7.4	Cap missing from 13-07 and chamber was flooded,13-08 underwater
October 20th, 2017	5.33	3.04	2.27	9.38	8	4.99	11.54	17.57	DRY	5.12		0.58	1.08	7.4	13-08 Underwater

Example Comments: Well damaged, water flowing into well from surface, unstable reading, well depth decreased, explanation if not measured, etc.

THE SHORES PHASE 1 SUBDIVISION - SITE INSPECTION REPORT

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Date Range: 10/27/2017 - Present   File Number: 3341-79 (2015 Sinkhole)   Inspector: Adam Bullock, EIT

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Groundwater Monitoring

Well Name	**BH12-01**	**BH12-02**	**BH12-03**	**BH12-05**	**BH12-06**	**BH12-07**	**BH12-08**	**BH12-09**	**TH13-01**	**TH13-07**	**TH13-08**	**TH13-09 (Shallow)**	**TH13-09 (Deep)**	**TH15-03**	
Surface El. (m)	**24.83**	**9.92**	**9.97**	**38.6**	**23.37**	**26.39**	**37.69**	**45.43**	**46.32**	**27.8**	**10.86**	**7.38**	**7.38**	**23.01**	
Well Depth (m)	**7.0**	**6.2**	**5.8**	**12.1**	**11.3**	**6.6**	**14.1**	**19.6**	**14.7**	**10.4**	**6.1**	**1.4**	**3.0**	**9.1**	
Date Measured	**Depth to Groundwater (m) - to nearest centimeter (if well dry, write 'Dry')**														**Comments**
Octobet 27th, 2017	5.32	3.08	2.27	9.39	7.99	5	11.59	17.52	DRY	5		0.81	1.07	7.40	13-08 Underwater

Example Comments: Well damaged, water flowing into well from surface, unstable reading, well depth decreased, explanation if not measured, etc.

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Instructions for use of this form and additional information.
A copy of these instructions should be available on site during all inspections.

Instructions for Use

1. Inspections and water level measurements should only be performed by experienced personnel authorized by the District of Sechelt.
2. The use of consistent staff is vital to maximizing the potential for perception of changes to the site.
3. The inspector should adhere to all WorkSafe BC regulations. Unbackfilled sinkholes should be treated as open and potentially unstable excavations.
4. If the inspector observes an imminent hazard which they believe to pose an immediate threat to person, property or the environment, the inspector should take immediate steps to protect their own safety and the safety of others and contact the relevant emergency services or utility providers. If the observed hazard is of geotechnical nature, Thurber should be contacted immediately (604-684-4384).
5. Signs of instability should be reported to Thurber within 24 hours of observation. Signs of instability may include but are not limited to the following: ground cracking, signs of ground settlement/displacement, slumping/sloughing, rapid erosion or muddy water seeping from the ground. With regards to retaining walls, signs of instability may include but are not limited to the following: rapid/significant loss of backfill, water seeping out of the wall face, wall face observed to be leaning more than previously, wall observed to be bulging (not straight) more than previously and/or loss of facing boulders.
6. Particular care should be taken during inspections in the winter months when seasonal rainfalls typically increase the hydraulic groundwater gradients which are believed to be related to the formation of sinkholes at this site.
7. Detailed inspections and groundwater monitoring should be completed weekly at minimum during the months of November through June and every two weeks at minimum during the months of July through October.
8. Additional inspections may be required by Thurber or in response to new developments or remedial works.

Instructions for Filing/Distribution

1. Completed inspection forms should be digitized (ideally typed into this template, or at a minimum scanned), with photos and plan markups attached in a timely manner.
2. Completed inspection forms and files should be archived and copied into a field binder for reference during future inspections.
3. Digitized copies of completed inspection forms should be provided to Thurber in a timely manner for interpretation and review.
4. Additional pages or materials may be attached to the back of this form as required. If significant modification of this form is required, please contact Thurber.

THE SHORES PHASE 1 SUBDIVISION - SITE INSPECTION REPORT

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Date Range: 10/27/2017 File Number: 3341-79 (2015 Sinkhole) Inspector: Adam Bullock, EIT

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Inspection Photographs









Photo File #		**Item #**			**Photo File #**		**Item #**		**Photo File #**		**Item #**		**Photo File #**		**Item #**
Location:	**Borrow**				**Location:**	**Crowston Ditch Inlet**			**Location:**	**Crowston Pond**			**Location:**	**Seawatch Lane Road Closure**	
Comment:	**Minimal ponding**				**Comment:**	**Dry**			**Comment:**				**Comment:**		









Photo File #		**Item #**			**Photo File #**		**Item #**		**Photo File #**		**Item #**		**Photo File #**		**Item #**
Location:	**Lot 12 Ponding**				**Location:**	**Lower Access**			**Location:**	**Lot 9/10 outfall**			**Location:**	**Settling Pond 1**	
Comment:					**Comment:**				**Comment:**	**Sediment level remains high**			**Comment:**	**Minor ponding**	

Tips: **1) Use the 'right-click, Change Picture' feature in Microsoft Excel for ease and to maintain formatting.**
2) Compress photos to 220 dpi for ease of file sharing/storage. [Picture Tools>Format>Compress Pictures> deselect ' Apply only to this photo' and select Print (220 dpi)]

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Date Range: 10/27/2017 File Number: 3341-79 (2015 Sinkhole) Inspector: Adam Bullock, EIT

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Inspection Photographs



Photo File #		**Item #**	
Location:	**Lot 1 Outfall**		
Comment:			

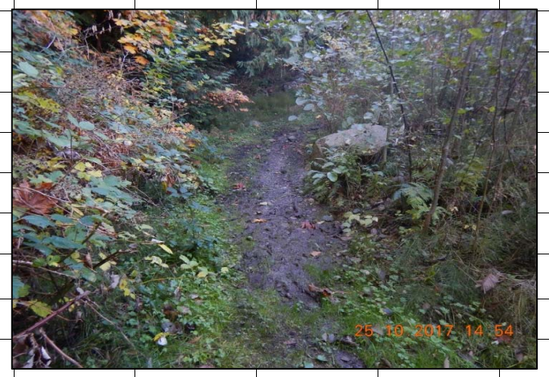


Photo File #		**Item #**	
Location:	**Lot 1 Path**		
Comment:	**Increased water content**		



Photo File #		**Item #**	
Location:	**Lot 3 MH**		
Comment:	**Low turbidity**		



Photo File #			**Item #**
Location:	**Gale Ave closures**		
Comment:			



Photo File #		**Item #**	
Location:	**Lot 21**		
Comment:			



Photo File #		**Item #**	
Location:	**Lot 10**		
Comment:			



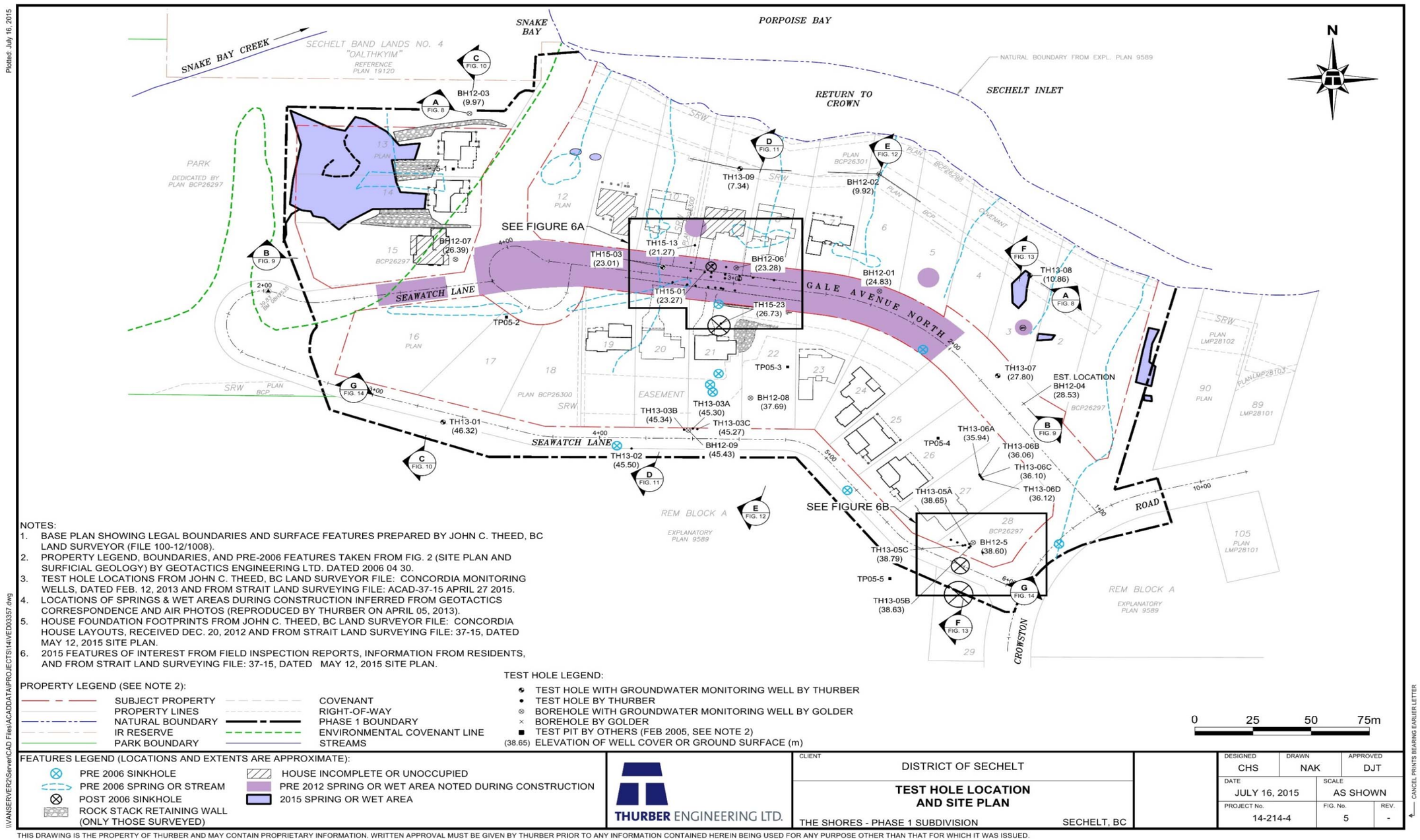
Photo File #		**Item #**	
Location:	**STM MH west of road closure**		
Comment:	**Up/Down = West/East flow**		



Photo File #			**Item #**
Location:	**STM MH w/in road closure**		
Comment:	**Left/Right = South/North flow**		

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2) Compress photos to 220 dpi for ease of file sharing/storage. [Picture Tools>Format>Compress Pictures> deselect ' Apply only to this photo' and select Print (220 dpi)]

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NOTES:
1. BASE PLAN SHOWING LEGAL BOUNDARIES AND SURFACE FEATURES PREPARED BY JOHN C. THEED, BC LAND SURVEYOR (FILE 100-12/1008).
2. PROPERTY LEGEND, BOUNDARIES, AND PRE-2006 FEATURES TAKEN FROM FIG. 2 (SITE PLAN AND SURFICIAL GEOLOGY) BY GEOTACTICS ENGINEERING LTD. DATED 2006 04 30.
3. TEST HOLE LOCATIONS FROM JOHN C. THEED, BC LAND SURVEYOR FILE: CONCORDIA MONITORING WELLS, DATED FEB. 12, 2013 AND FROM STRAIT LAND SURVEYING FILE: ACAD-37-15 APRIL 27 2015.
4. LOCATIONS OF SPRINGS & WET AREAS DURING CONSTRUCTION INFERRED FROM GEOTACTICS CORRESPONDENCE AND AIR PHOTOS (REPRODUCED BY THURBER ON APRIL 05, 2013).
5. HOUSE FOUNDATION FOOTPRINTS FROM JOHN C. THEED, BC LAND SURVEYOR FILE: CONCORDIA HOUSE LAYOUTS, RECEIVED DEC. 20, 2012 AND FROM STRAIT LAND SURVEYING FILE: 37-15, DATED MAY 12, 2015 SITE PLAN.
6. 2015 FEATURES OF INTEREST FROM FIELD INSPECTION REPORTS, INFORMATION FROM RESIDENTS, AND FROM STRAIT LAND SURVEYING FILE: 37-15, DATED MAY 12, 2015 SITE PLAN.

PROPERTY LEGEND (SEE NOTE 2):
- SUBJECT PROPERTY
- PROPERTY LINES
- NATURAL BOUNDARY
- IR RESERVE
- PARK BOUNDARY
- COVENANT
- RIGHT-OF-WAY
- PHASE 1 BOUNDARY
- ENVIRONMENTAL COVENANT LINE
- STREAMS

TEST HOLE LEGEND:
- TEST HOLE WITH GROUNDWATER MONITORING WELL BY THURBER
- TEST HOLE BY THURBER
- BOREHOLE WITH GROUNDWATER MONITORING WELL BY GOLDER
- BOREHOLE BY GOLDER
- TEST PIT BY OTHERS (FEB 2005, SEE NOTE 2)
- (38.65) ELEVATION OF WELL COVER OR GROUND SURFACE (m)

FEATURES LEGEND (LOCATIONS AND EXTENTS ARE APPROXIMATE):
- PRE 2006 SINKHOLE
- PRE 2006 SPRING OR STREAM
- POST 2006 SINKHOLE
- ROCK STACK RETAINING WALL (ONLY THOSE SURVEYED)
- HOUSE INCOMPLETE OR UNOCCUPIED
- PRE 2012 SPRING OR WET AREA NOTED DURING CONSTRUCTION
- 2015 SPRING OR WET AREA

THURBER ENGINEERING LTD.

CLIENT: DISTRICT OF SECHELT

TEST HOLE LOCATION AND SITE PLAN

THE SHORES - PHASE 1 SUBDIVISION — SECHELT, BC

DESIGNED	DRAWN	APPROVED
CHS	NAK	DJT
DATE: JULY 16, 2015	SCALE: AS SHOWN	
PROJECT No.: 14-214-4	FIG. No.: 5	REV.: -

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CANCEL PRINTS BEARING EARLIER LETTER

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