

Water Bodies Assessment Field Collection Form

AECOM

Page 4 of 4

Watercourse Sketch

Study Area:

Jericho

Goshen

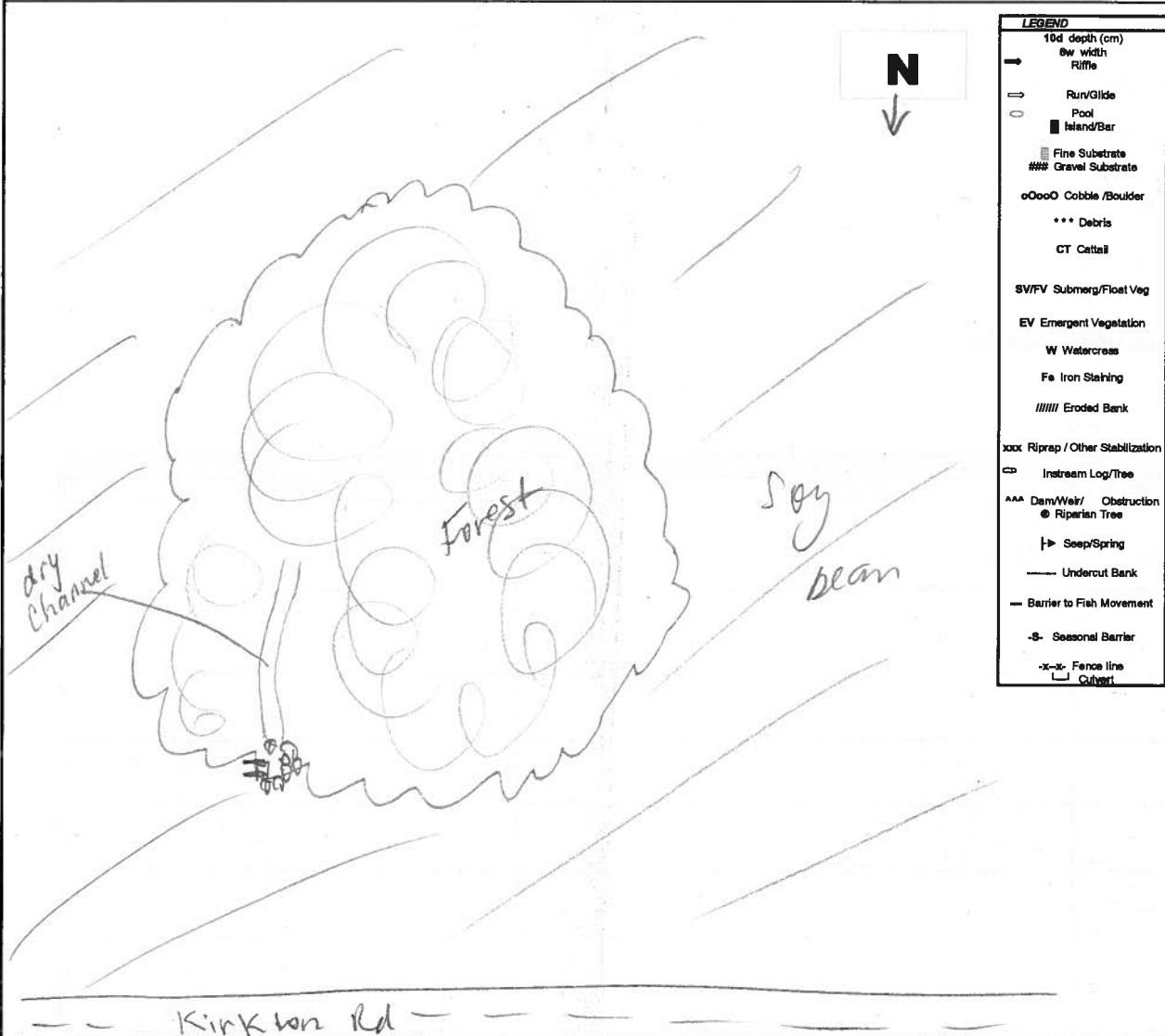
Bluewater

Land Parcel#

GS42133

Site ID

02000 D53
Feature 273



LEGEND	
10d depth (cm)	
bw width	
Riffle	→
Run/Glide	→
Pool	○
Island/Bar	■
Fine Substrate	□
Gravel Substrate	###
Cobble/Boulder	oOoO
Debris	***
Cattail	CT
Submerg/Floet Veg	SV/FV
Emergent Vegetation	EV
Watercross	W
Iron Staking	Fe
Eroded Bank	
Riprap / Other Stabilization	xxx
Instream Log/Tree	CD
Dam/Weir/ Obstruction	AAA
Riparian Tree	●
Seep/Spring	↳
Undercut Bank	—
Barrier to Fish Movement	—
Seasonal Barrier	-S-
Fence line	-x-x-
Culvert	□

Horizontal View of Channel



Initial QA/QC By: L. Bentley

Date: June 26, 2012

Technical QA/QC By: [Signature]

Date: July 9/12

(D55)
C86A

AECOM				Page 1 of 4								
General Information				Field Crew: <u>CB, TS</u>								
Study Area: Jericho <u>Goshen</u> Bluewater		Land Parcel# <u>2108</u>		Turbine # <u>SMA 25 / GE 35</u>								
Date: <u>July 27/11</u>		Start time: <u>13:50</u>		End Time: <u>14:30</u>								
Weather Conditions: <u>Sunny, 25°C</u>				Field Notes By: <u>CB</u>								
Site Location												
<u>Kirkton Rd. — between Babylon + Goshen.</u>												
UTM Co-ordinates												
Easting: <u>0452328</u>		Northing: <u>4796219</u>		Description: <u>South end</u>								
Easting: <u>0452166</u>		Northing: <u>4796504</u>		Description: <u>North end.</u>								
Easting: _____		Northing: _____		Description: _____								
Easting: _____		Northing: _____		Description: _____								
Surrounding Landuse/Pollution Sources				Type of Watercourse								
Residential ☐		Meadow ☐		Intermittent ☐		Channelized ☒						
Agriculture ☒		Wetland ☐		Permanent ☒		Natural Channel ☒						
Forest ☐		Livestock ☐		Ephemeral ☐								
Other: _____												
Notes: (include any inputs into the system i.e. tile drainage, seepages, overland flow) <u>no obvious inputs</u>												
In-Situ Water Quality				Ground Water Indicators								
WT (°C): <u>22.8</u>		AT (°C): <u>30°</u>		Watercress ☒		Bank Seepage ☐						
pH: <u>7.05</u>		Cond (µs/cm): <u>0.74</u>		Iron Staining ☐		None ☐						
Water Clarity: Clear ☒		Turbid ☐		Bubbling ☐		Other ☐						
Notes: <u>No flow, w/g taken in pool → appeared to be all standing pools — but many make up the stream</u>												
Stream Morphology												
Site Length (m): _____				Bank Stability:								
Channel Dimensions				<table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;"></th> <th style="width: 15%;">Stable</th> <th style="width: 15%;">Slightly unstable</th> <th style="width: 15%;">Moderately unstable</th> <th style="width: 15%;">Unstable</th> </tr> </table>					Stable	Slightly unstable	Moderately unstable	Unstable
	Stable	Slightly unstable	Moderately unstable	Unstable								
Mean Wetted Width (m): <u>0.5</u>		Mean Bankfull Width (m): <u>1.5</u>		Left Bank		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">☒</td> <td style="width: 15%; text-align: center;">☐</td> <td style="width: 15%; text-align: center;">☐</td> <td style="width: 15%; text-align: center;">☐</td> </tr> </table>		☒	☐	☐	☐	
☒	☐	☐	☐									
Mean Wetted Depth (m): <u>0.10</u>		Mean Bankfull Depth (m): <u>0.3</u>		Right Bank		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">☒</td> <td style="width: 15%; text-align: center;">☐</td> <td style="width: 15%; text-align: center;">☐</td> <td style="width: 15%; text-align: center;">☐</td> </tr> </table>		☒	☐	☐	☐	
☒	☐	☐	☐									
Flow Description: <u>no flow noted, standing water</u>												
Notes: _____												

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Stream Morphology (continued)**Substrate (<=>)**

Description
 Bo - Boulder
 Co - Cobble
 Gr - Gravel
 Sa - Sand
 Si - Silt
 Cl - Clay
 MK - Muck
 DT - Detritus
 Other

MK7 Cl > Si

Morphological Structure (%)

Pool	Riffle	Run	Flat
			100

Notes:

Pools

Habitat

Instream Cover (%) 60

None	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	Undercut Bank	Other:
	5	0	0	90	5	

*Aquatic Vegetation Types Present (algae, submergent, emergent etc.)

- duckweed and sparse cattails

Canopy Cover (% closed cover):

100-90%

☐

30-1%

☒

90-60%

☐

0%

☐

60-30%

☐**Types of Cover (% cover)**

Trees

5

Shrubs

90

Man-made structures

Grasses

Herbaceous

5

Other

Notes:

Obstructions to Fish Passage

No Obstructions

☒

Man-Made

☐

Natural

☐

Description:

Drainage Features within Study Area

Observations of Land Topography within 120 m buffer area:

no drainage features noted
 - topography flat surrounding stream

Terrestrial features Present

Yes

No

Terrestrial Recon Form Filled out

Yes

No

C36A

AECOM

~~SW 25 / G-35~~DSS
C36A

Page 3 of 4

Other General Comments Regarding the Study Area:

- frogs observed, + tadpoles
- possible fox den

Photo log

Picture #	Description	Picture #	Description
1	South end. dw stream		
2	South end up 15		
3	overall site		
4	overall site		
5	- steep banks v. veg.		
6	- waterways		
7	standing water		
8	standing water		
9.	overall in valley of stream bed		
10	duckweed.		

C36A

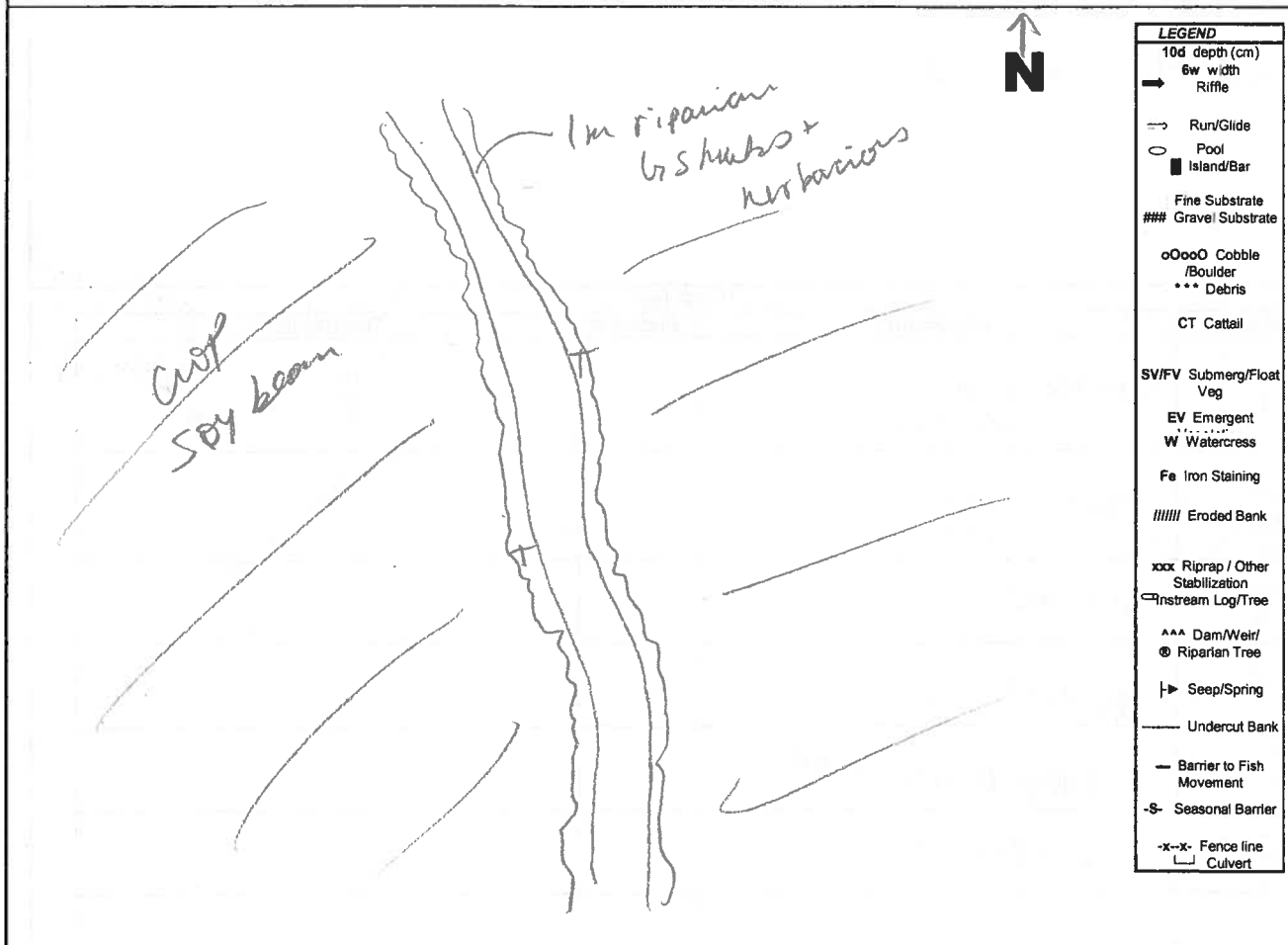
AECOM

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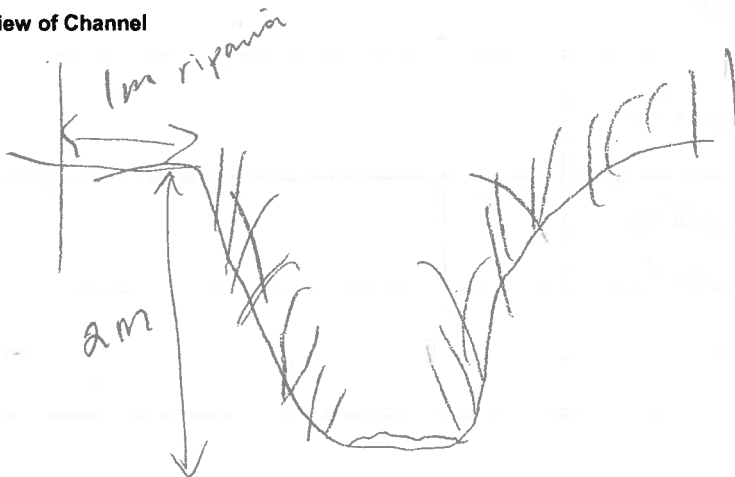
Watercourse Sketch

Study Area: Jericho Goshen Bluewater Land Parcel# 2108

Turbine #

CS6A DSS
SAMERS/DISS

Horizontal View of Channel



D56

AECOM

Page 1 of 4

Field Crew:

General Information

Study Area: Jericho

Goshen

Bluewater

Land Parcel#

GSH1005

Turbine #

CH

Date: 17-Nov-11

Start time: 12:15

End Time: 12:45

Weather Conditions:

overcast, windy, 0°C

Field Notes By:

DART

Site Location

C11

UTM Co-ordinates

Easting: 448014

Northing: 4803211

Description: C11a - north

Easting: 448435

Northing: 4803118

Description: C11b - south

Easting:

Northing:

Description:

Easting:

Northing:

Description:

Surrounding Landuse/Pollution Sources

Residential

☐

Meadow

☐

Agriculture

☒

Wetland

☐

Forest

☐

Livestock

☐

Type of Watercourse

Intermittent

☒

Channelized

☐

Permanent

☐

Natural Channel

☐

Ephemeral

☐

Other:

Notes: (include any inputs into the system i.e. tile drainage, seepages, overland flow)

agriculture on both sides

In-Situ Water Quality

WT (°C):

NA

AT (°C):

0°C

pH:

NA

Cond (µs/cm):

NA

Water Clarity:

Clear

☐

Turbid

☐

Ground Water Indicators

Watercress

☐

Bank Seepage

☐

Iron Staining

☐

None

☒

Bubbling

☐

Other

☐

Notes:

no water present, however farmer informed us that floods in spring & water comes from east & southeast tile drain fed.

Stream Morphology

Site Length (m):

Bank Stability:

NA

Channel Dimensions

Mean Wetted Width (m):

NA

Mean Bankfull Width (m):

50

Mean Wetted Depth (m):

NA

Mean Bankfull Depth (m):

NA

Stable

Slightly unstable

Moderately unstable

Unstable

Left Bank

☐☐☐☐

Right Bank

☐☐☐☐

Flow Description:

no water no defined channel or banks

Notes:

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Stream Morphology (continued)

Substrate (<=>)

Bo - Boulder
Co - Cobble
Gr - Gravel
Sa - Sand
Si - Silt
Cl - Clay
MK - Muck
DT - Detritus
Other

Description

NA - Sand + gravel

Morphological Structure (%)

Pool	Riffle	Run	Flat

Notes:

NA

Habitat

Instream Cover (%)

NA - but channel completely vegetated by grass

None	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	Undercut Bank	Other:

*Aquatic Vegetation Types Present (algae, submergent, emergent etc.)

Canopy Cover (% closed cover):

100-90% ☐ 30-1% ☐
90-80% ☐ 0% ☒
60-30% ☐

Types of Cover (% cover)

Trees _____ Shrubs _____ Man-made structures _____
Grasses _____ Herbaceous _____ Other _____

Notes:

Obstructions to Fish Passage

No Obstructions ☐ Man-Made ☐
Natural ☐

Description:

No water.
Large deep pit @ west
end of channel @ road

Drainage Features within Study Area

Observations of Land Topography within 120 m buffer area:

Land slopes from the east.

Terrestrial features Present

Yes No

Terrestrial Recon Form Filled out

Yes

No

AECOM

D56

Page 3 of 4

Other General Comments Regarding the Study Area:

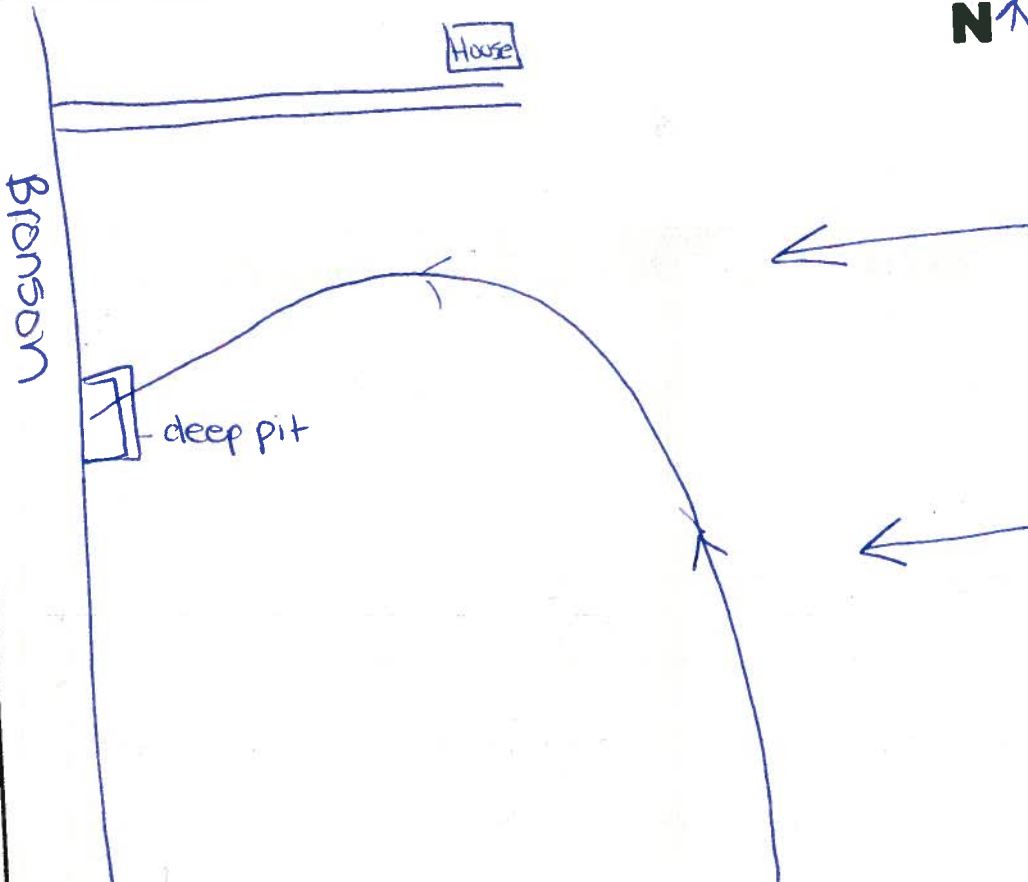
Photo log

Picture #	Description	Picture #	Description
59-60	From C11a		
72-75	From C11b		

AECOM

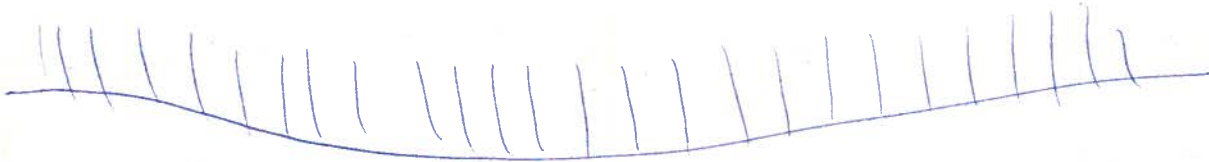
Watercourse Sketch

Study Area: Jericho Goshen Bluewater Land Parcel# GSH1005 Turbine # CH D 56



LEGEND	
100 depth (cm)	
50 width	
Riffle	
Run/Glide	
Pool	
Island/Bar	
Fine Substrate	
Gravel Substrate	
Cobble/Boulder	
Debris	
CT Canal	
SV/FV Submerge/Flood Veg	
EV Emergent	
W Watercress	
Fe Iron Staining	
Eroded Bank	
Riprap / Other Stabilization	
Instream Log/Tree	
Dam/Wall	
Riparian Tree	
Seep/Spring	
Undercut Bank	
Barrier to Fish Movement	
Seasonal Barrier	
Fence line	
Culvert	

Horizontal View of Channel



Water Bodies Assessment Field Collection Form

AECOM		Page 1 of 4	
General Information			
Study Area: Jericho	Goshen	Bluewater	Land Parcel# GSH 2252 Site ID: DS7
Date: July 25/12	Start time: 9:30	End Time: 10:30	
Weather Conditions: Sunny, 22°C		Field Crew: C. Boros, J. Epp Field Notes By: C. Boros	
Site Location			
Kirkton Rd, west of Blackbush Line			
UTM Co-ordinates (continue on page 3 if necessary)			
Easting: 446410	Northing: 4795218	Description: GSH 2252 st	
Easting: 446346	Northing: 4795211	Description: GSH 2252 w.g.	
Easting: 446325	Northing: 4795265	Description: GSH 2252 e.	
Easting:	Northing:	Description:	
Surrounding Landuse		Type of Watercourse	
Residential ☐	Meadow ☐	Intermittent ☒ Channelized ☒ Agriculture ☐ Wetland ☒ Forest ☒ Livestock ☐ Other ☐	
Description: immediate area surrounding stream at north end wetland plants			
Description: channelized historically, starting to naturalize			
Notes: (include any inputs into the system i.e. tile drainage, seepages, overland flow) none observed			
Is any portion of the water body underground or not as mapped? Y / <u>N</u> If Yes describe:			
GPS Coordinate: Easting - Northing - Description -			
Description of Land Topography Surrounding Water Body (rolling hills, sloping towards water body)			
flat			
In-Situ Water Quality		Ground Water and Seepage Indicators	
WT (°C): 17.26	AT (°C): 22°C	Watercress ☒ Bank Seepage ☐ Iron Staining ☐ None ☐ Bubbling ☐ Other ☐	
pH: 7.28	Cond (µs/cm): 916		
D.O. (mg/L): 5.95			
Water Clarity: Clear ☒ Turbid ☐			
Water Colour: n/a		Details: small isolated clumps	
Notes: taken in isolated pool, 0.07 m			

Water Bodies Assessment Field Collection Form

Stream Morphology																				
Site Length (m): 150m				Bank Stability:																
Dry Channel Dimensions				<table border="1" style="width: 100%; text-align: center;"> <tr> <th></th> <th>Stable</th> <th>Slightly unstable</th> <th>Moderately unstable</th> <th>Unstable</th> </tr> <tr> <td>Left Bank</td> <td>☐</td> <td>☒</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Right Bank</td> <td>☐</td> <td>☒</td> <td>☐</td> <td>☐</td> </tr> </table>			Stable	Slightly unstable	Moderately unstable	Unstable	Left Bank	☐	☒	☐	☐	Right Bank	☐	☒	☐	☐
	Stable	Slightly unstable	Moderately unstable	Unstable																
Left Bank	☐	☒	☐	☐																
Right Bank	☐	☒	☐	☐																
Mean Wetted Width (m): 0.8		Mean Wetted Depth (m):		Description: bare banks - exposed soil in some areas																
Mean Bankfull Width (m): 1.1		Mean Bankfull Depth (m): 0.4																		
Mean Top of Bank Width (m): 5		Mean Top of Bank Depth (m): 1.5																		
Flow Description: (high or low flow conditions, stagnant, etc)																				
no flow - only isolated pools spaced far apart (>10m)																				
Habitat																				
Substrate (<=>)		Description		Morphological Structure (%)																
Bo - Boulder Co - Cobble Gr - Gravel Sa - Sand Si - Silt Cl - Clay MK - Muck DT - Detritus		U = Si = Sa > Gr, Co > Bo		<table border="1" style="width: 100%; text-align: center;"> <tr> <th>Pool</th> <th>Riffle</th> <th>Run</th> <th>Flat</th> </tr> <tr> <td>/</td> <td>/</td> <td>/</td> <td>100</td> </tr> </table>		Pool	Riffle	Run	Flat	/	/	/	100							
Pool	Riffle	Run	Flat																	
/	/	/	100																	
				Notes: Straight channel, no obvious riffle or pool areas																
Instream Cover (%)																				
Other	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	None															
		5	30	10																
					Undercut Banks															
					Average Depth: (% Cover)															
Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%																				
*Aquatic Vegetation Species Present (algae, submergent, emergent etc.)																				
grasses >> watercress																				
Canopy Cover (% closed cover):			Types of Cover (% cover)																	
100-90%	☐	30-1%	☐	Trees 60	Shrubs 10															
90-60%	☐	0%	☐	Grasses 30	Herbaceous															
60-30%	☒				Man-made structures															
			Other																	
Note: Low = 0 - 30%; Moderate = 30 - 60%; High = 60 - 100%																				
Notes: (vegetation species, types of structures)																				
maple, basswood, elm																				
Riparian Vegetation																				
Width and Description of riparian vegetation:		LB - 75m - forest		RB - 75m forest																
Overhanging Vegetation Present		N																		
Description of Overhanging Vegetation:		% Overhanging Vegetation: 10																		
mostly grasses + herbaceous plants, some trees w low branches																				
Obstructions to Fish Passage																				
None Observed	☐	Man-Made	☐	Natural	☒ Low Flow Barrier															
Description of Barrier: only small isolated pools of water																				
Height of Barrier (m)			GPS Coordinates:																	

Water Bodies Assessment Field Collection Form

057

AECOM

Date: July 25/12

Land Parcel/Site ID: 654 2252

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Other General Comments Regarding the Study Area:

Watercourse dry. ^{sporadic pools} Channel straight w no meander.
Begins wide in front area (south branch) then narrows →
there is less canopy cover towards end and wetland
plants are present - jewelweed, rice-cut grass, watercress

Additional UTM Coordinates:

Photo log

Picture #	Description	Picture #	Description
1	20 m east of start		
2-4	South branch		
5-17	North branch		
18	past end point		

Water Bodies Assessment Field Collection Form

AECOM

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Watercourse Sketch

Study Area:

Jericho

Goshen

Bluewater

Land Parcel#

GS# 2252

Site ID

D57



LEGEND	
10d depth (cm)	
Sw width	
Rifle	
Run/Glide	
Pool	
Island/Bar	
Fine Substrate	
Gravel Substrate	
Cobble/Boulder	
Debris	
Cattail	
Submerg/Floet Veg	
Emergent Vegetation	
Watercress	
Iron Staking	
Eroded Bank	
Riprap / Other Stabilization	
Instream Log/Tree	
Dam/Weir/ Obstruction	
Riparian Tree	
Seep/Spring	
Undercut Bank	
Barrier to Fish Movement	
Seasonal Barrier	
Fence line	
Culvert	

Forest

Forest

wetland plants

water

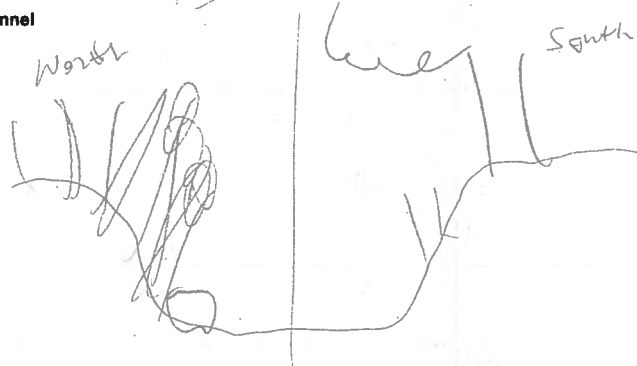
pool

Q - closed canopy cover

Q - cobble

W - watercress

Horizontal View of Channel



Initial QA/QC By: L. Bentley

Date: Aug 2, 2012

Technical QA/QC By: J. H. H.

Date: Aug 2/12

Water Bodies (Pond) Assessment Field Collection Form

AECOM

Page 1 of 2

General Information

Study Area: Jericho Goshen Bluewater Land Parcel# GSH 1038 Site ID: ~~P1038~~ P1
 Date: July 25/12 Start time: 9:00 End Time: 9:15
 Weather Conditions: Sunny 20°C Field Crew: C. Boros, J. EPP
 Field Notes By: C. Boros

Site Location

Bronson Ln, north of Pepper Road

UTM Co-ordinates

Easting: 448026 Northing: 4803848 Description: P1

Easting: Northing: Description:

Surrounding Landuse

Residential ☐ Meadow ☐
 Agriculture ☒ Wetland ☐
 Forest ☐ Livestock ☐
 Other ☐

Description: corn field

Type of Pond

Natural ☐ Dammed ☐
 Permanent ☐ Seasonal ☐
 Dugout Pond ☐ Used for Farming ☐
 Vernal Pools ☐

Description: does not exist

In-Situ Water Quality

WT (°C): AT (°C):
 pH: Cond (s/cm):
 D.O. (mg/L)
 Water Clarity: Clear ☐ Turbid ☐
 Water Colour:

Ground Water and Seepage Indicators

Watercress ☐ Bank Seepage ☐
 Iron Staining ☐ None ☐
 Bubbling ☐

Details:

Wildlife Observations

Observations of Fish and Wildlife

None observed

In-Situ Habitat

Substrate (<=>) Description
 Bo - Boulder
 Co - Cobble
 Gr - Gravel
 Sa - Sand
 Si - Silt
 Cl - Clay
 MK - Muck
 DT - Detritus

Physical Characteristics of Pond

Estimated Size: Estimated Depth (m):
 Notes:

In-Situ Cover (%)

None	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	Structures	Other

Note: Low = 0 - 30% ; Moderate = 30 - 75% ; High = 75 - 100%

*Aquatic Vegetation Species Present (algae, submergent, emergent etc.)

Description and Width of Riparian Vegetation

Water Bodies (Pond) Assessment Field Collection Form

AECOM

Date: July 25/12

Land Parcel/Site ID: GSH 1038

PI

Page 2 of 2

Online Pond Y / ☒ N

Provide Description

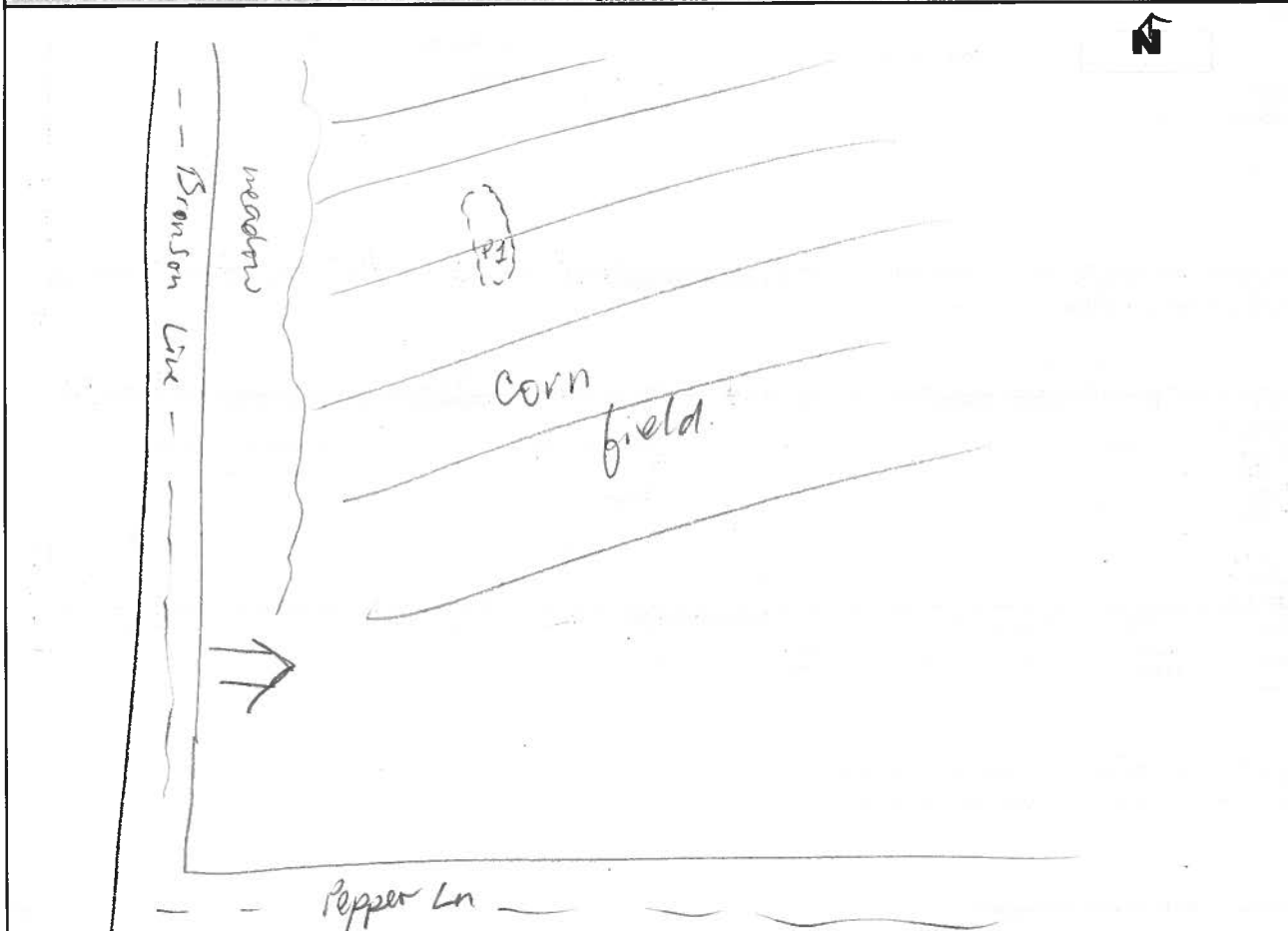
Offline Pond Y / ☒ N

Other General Comments Regarding the Study Area:

Pond has been ploughed through → does not exist

Photo log	
Picture #	Description
1-2	phragmites w corn
3	corn

Sketch of Pond



Initial QA/QC By: L. Bentley

Date: Aug 2/12

Technical QA/QC By: Slutkin

Date: Aug 2/12

Property ID: GSH1912-Pond P2 Date: Nov 17-2011

Property Access: Via Dashwood - entered from north Start Time: 3:10

End Time: _____

Field Investigators: Dart + Ferris Weather: overcast, wind 0°C

Terrestrial Feature Present: No ☐ Yes ☒

Provide brief description of observations (i.e. hedgerow, treerow, woodlot, valleylands, deciduous vs coniferous, crop)

There is a tree stand - planted in rows
to the east of the pond

Photograph Numbers: _____

Aquatic Feature Present: No ☐ Yes ☒

Provide brief description (i.e. drainage ditch, watercourse, intermittent, permanent)

Large Pond area . Cattails + Yellow water
lily present. Vegetated banks. Farm field on
west side - buffer here ~ 3m. some trees
on bank, mostly herbaceous. Close to 100m length

Photograph Numbers: # 111 - 114

corridor #115 + 116 - no aquatic feature until

11/28/2011

Dear Mr. [Name]

I am writing to you regarding the [Topic] that we discussed previously. I have reviewed the information and have some questions that I would like to ask you. I am sure that you will be able to provide me with the answers that I need. I am looking forward to hearing from you soon.

I am sure that you will be able to provide me with the answers that I need. I am looking forward to hearing from you soon. I am sure that you will be able to provide me with the answers that I need. I am looking forward to hearing from you soon.

C189

AECOM		Page 1 of 4	
		Field Crew: NL, BG P2	
General Information			
Study Area: Jericho Goshen Bluewater		Land Parcel# 1012	
Date: July 13, 2011		Turbine # GE 36-2 SMN 15	
Start time: 9:00am		End Time: 9:30am	
Weather Conditions: Sunny, Windy		Field Notes By: NL	
Site Location			
thru' corn field accessed by Dashwood.			
UTM Co-ordinates			
Easting: 0453130	Northing: 4799728	Description: Middle of Pond	
Easting: 0453135	Northing: 4799565	Description: GS7-GE 36-2 Middle of corn field	
Easting:	Northing:	Description:	
Easting:	Northing:	Description:	
Surrounding Landuse/Pollution Sources		Type of Watercourse	
Residential ☐	Meadow ☐	Intermittent ☐	Channelized ☐
Agriculture ☒ W	Wetland ☐	Permanent ☒	Natural Channel ☐
Forest ☒ E	Livestock ☐	Ephemeral ☐	
Other:			
Notes: (include any inputs into the system i.e. tile drainage, seepages, overland flow) No obvious signs of drainage gullies or seepage, but probably overland flow.			
In-Situ Water Quality		Ground Water Indicators	
WT (°C):	AT (°C): 24	Watercress ☐	Bank Seepage ☐
pH:	Cond (s/cm):	Iron Staining ☐	None ☒
Water Clarity: Clear ☒	Turbid ☐	Bubbling ☐	Other ☐
Notes: No GW indicators observed but couldn't access whole pond			
Stream Morphology			
Site Length (m):		Bank Stability:	
Channel Dimensions			
Mean Wetted Width (m):	Mean Bankfull Width (m): 12m	Stable ☒	Slightly unstable ☐
Mean Wetted Depth (m): 12m	Mean Bankfull Depth (m):	Moderately unstable ☐	Unstable ☐
		Left Bank	Right Bank
		☒	☒
		☐	☐
		☐	☐
Flow Description: Standing water body			
Notes:			

AECOM

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Stream Morphology (continued)

Substrate (< = >)

Description

Bo - Boulder
Co - Cobble
Gr - Gravel
Sa - Sand
Si - Silt
Cl - Clay
MK - Muck
DT - Detritus
Other

Morphological Structure (%)

Pool	Riffle	Run	Flat

Notes:

Habitat

Instream Cover (%)

None	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	Undercut Bank	Other:
				30		

*Aquatic Vegetation Types Present (algae, submergent, emergent etc.)

algae, emergent, submergent, Reeds,

Canopy Cover (% closed cover):

100-90% ☐ 30-1% ☒
90-60% ☐ 0% ☐
60-30% ☐

Types of Cover (% cover)

Trees 5 Shurbs 10 Man-made structures _____
Grasses 10 Herbaceous 10 Other _____

Notes:

Obstructions to Fish Passage

No Obstructions ☐ Man-Made ☐
Natural ☐

Description:

Drainage Features within Study Area

Observations of Land Topography within 120 m buffer area:

Flat.

Terrestrial features Present

Yes No

Terrestrial Recon Form Filled out

Yes No

C189

AECOM

July 13 / 11

G-36

C189

P2

Page 3 of 4

Other General Comments Regarding the Study Area:

Green frog heard

No sign of watercourse or channel in the cornfield
 GPS point taken in middle of cornfield where w/c
 is supposed to be. No evidence of channel. Some drainage
 gullies + depressions (dry now), but no channel.

Photolog

Picture #	Description	Picture #	Description
0204 H41	Pond from South		
0205 H42	Pond from Cornfield		
0206	Pond from Cornfield		
207	Pond from Cornfield		
208	View in cornfield where is supposed to be.		

C189

C189

AECOM

Page 4 of 4

Watercourse Sketch

Study Area:

Jericho

Goshen

Bluewater Land Parcel#

1012

Turbine #

P2

C189

CORN
FIELD

CORN

N

LEGEND	
10d depth (cm)	
ew width	
Riffle	→
Run/Glide	→
Pool	○
Island/Bar	■
Fine Substrate	
Gravel Substrate	###
Cobble/Boulder	oOooO
Debris	***
Cattail	CT
Submerg/Float Veg	SV/FV
Emergent	EV
Watercress	W
Iron Staining	Fe
Eroded Bank	
Riprap / Other Stabilization	xxx
Instream Log/Tree	—
Dam/Weir	AAA
Riparian Tree	⊙
Seep/Spring	↳
Undercut Bank	—
Barrier to Fish Movement	—
Seasonal Barrier	-S-
Fence line	-x-x-
Culvert	—

Horizontal View of Channel

Property ID: GSH1765 P5 Date: Nov 18, 2011

Property Access: Blackbush rd. Start Time: 12:25

End Time: 12:40

Field Investigators: Dart + Ferris Weather: Windy, sunny OK

Terrestrial Feature Present: No ☒ Yes ☐

Provide brief description of observations (i.e. hedgerow, treerow, woodlot, valleylands, deciduous vs coniferous, crop)

Photograph Numbers: _____

corridor = #190-191

Aquatic Feature Present: No ☐ Yes ☒

Provide brief description (i.e. drainage ditch, watercourse, intermittent, permanent)

PH = 7.01 °C = 6.3 358 µS

Man made Pond ~ 100+ m long. Vegetated buffer (grass, shrub, trees)
~ 4m around pond. Surrounded by farm land

Canopy cover = 30% (trees) seasonal

water clear. Soft bottom, leaf debris

Some dead brush in Pond. Slight slope from east

Bank ~ 2.5-3.5m depth. Stable banks

Photograph Numbers: _____

#192-196

AECOM
Page 1 of 2

PS

General Information

Study Area: Jericho Goshen

Bluewater

Land Parcel# GSH1765

Site ID: Pond GSH1765

Date: Nov 18/11

Start time: 11:20

End Time: 1:35

Weather Conditions: Sunny

Field Crew: SA, TS

Field Notes By: S. Aiken

Site Location

located in agri field east of Blackbush line

UTM Co-ordinates

Easting: 447997

Northing: 4793828

Description: corner of pond

Easting:

Northing:

Description:

Surrounding Landuse

Residential ☐
Agriculture ☒
Forest ☐
Other ☐

Meadow ☐
Wetland ☐
Livestock ☐

Description: ploughed no crops

Type of Pond

Natural ☐
Permanent ☐
Dugout Pond ☒
Vernal Pools ☐

Dammed ☐
Seasonal ☐
Used for Farming ☐

Description:

In-Situ Water Quality

WT (°C):

AT (°C):

pH:

Cond (s/cm):

D.O. (mg/L)

Water Clarity: Clear ☐

Turbid ☐

Water Colour: no WQ taken

Ground Water and Seepage Indicators

Watercress ☐
Iron Staining ☐
Bubbling ☐

Bank Seepage ☐
None ☒

Details:

Wildlife Observations

Observations of Fish and Wildlife none observed

In- Situ Habitat

Substrate (< = >)
Bo - Boulder
Co - Cobble
Gr - Gravel
Sa - Sand
Si - Silt
Cl - Clay
MK - Muck
DT - Detritus

Description
Si = Sa > Gr

Physical Characteristics of Pond

Estimated Size:
100x40m

Estimated Depth (m):
unknown

Notes:

In-Situ Cover (%)

None	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	Structures	Other
<u>X</u>						

Note: Low = 0 - 30% ; Moderate = 30 - 75% ; High = 75 - 100%

*Aquatic Vegetation Species Present (algae, submergent, emergent etc.)

no aquatic vegetation

Description and Width of Riparian Vegetation

~10m trees, dogwood, grasses

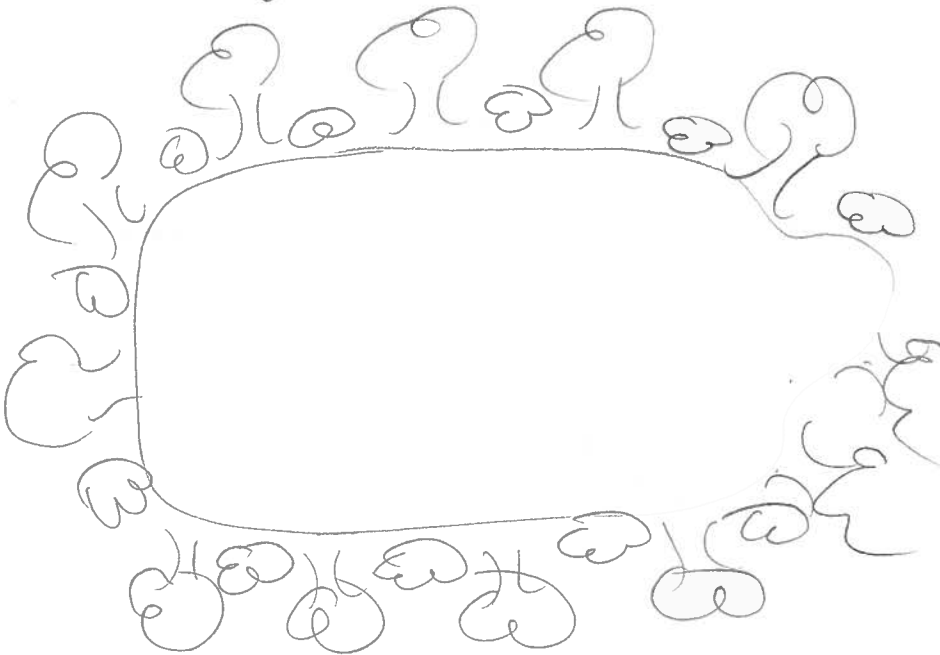
Water Bodies (Pond) Assessment Field Collection Form

P5

AECOM	Date: Nov 18/11	Land Parcel/Site ID: GSH1765	Page 2 of 2
Online Pond Y ☒ N ☐ Provide Description Offline Pond ☒ Y ☐ N			
Other General Comments Regarding the Study Area: large rectangular pond appears to be man-made			
Picture #		Photo log	
Picture #	Description	Picture #	Description
190-191	overview of field		
192-196	pond		

Sketch of Pond

agri field



agri field

N

Initial QA/QC By: L. Bentley

Date: July 10, 2012

Technical QA/QC By: _____

Date: _____

Property ID: <u>GSH 1067</u> P7 <u>pond</u>	Date: <u>Dec 15, 2011</u>
Property Access: <u>No Access</u>	Start Time: <u>13:00</u> End Time: <u>13:05</u>

Field Investigators: <u>CB, TS</u>	Weather: _____
------------------------------------	----------------

Terrestrial Feature Present: No ☐ Yes ☐

Provide brief description of observations (i.e. hedgerow, treerow, woodlot, valleylands, deciduous vs coniferous, crop)

Photograph Numbers: _____

Aquatic Feature Present: No ☐ Yes ☐

Provide brief description (i.e. drainage ditch, watercourse, intermittent, permanent)

→ Roadside assessment could not be
completed because tree row was
blocking view.

Photograph Numbers: _____

Water Bodies (Pond) Assessment Field Collection Form

AECOM						Page 1 of 2	
General Information							
Study Area: Jericho <u>Goshen</u> Bluewater		Land Parcel# <u>GSH 1066</u>		Site ID: <u>Pond 004</u> <u>P8</u>			
Date: <u>June 25/12</u>		Start time: <u>13:40</u>		End Time: <u>14:20</u>			
Weather Conditions: <u>Sunny, 15°C</u>				Field Crew: <u>C. Boros, J. Epp</u> Field Notes By: <u>C. Boros</u>			
Site Location							
<u>South Rd, east of Blackbush Line.</u>							
UTM Co-ordinates							
Easting: <u>448324</u>		Northing: <u>4790978</u>		Description: <u>Pond 004 wa</u>			
Easting: <u>448228</u>		Northing: <u>4791834</u>		Description: <u>Pond 004 bridge</u>			
Surrounding Landuse				Type of Pond			
Residential ☐		Meadow ☐		Natural ☐		Dammed ☒	
Agriculture ☐		Wetland ☐		Permanent ☒		Seasonal ☐	
Forest ☒		Livestock ☐		Dugout Pond ☐		Used for Farming ☐	
Other ☐		Vernal Pools ☐					
Description: <u>Coniferous trees</u> <u>deciduous</u>				Description: <u>Pond</u> <u>result of damming</u>			
In-Situ Water Quality				Ground Water and Seepage Indicators			
WT (°C): <u>24.7</u>		AT (°C): <u>15</u>		Watercress ☐		Bank Seepage ☐	
pH: <u>8.55</u>		Cond (µs/cm): <u>496</u>		Iron Staining ☐		None ☒	
D.O. (mg/L): <u>12.44</u>		Water Clarity: <u>Clear</u> ☒ Turbid ☐		Bubbling ☐			
Water Colour: <u>st. brown/green</u> <u>taken at edge</u>				Details:			
Wildlife Observations							
Observations of Fish and Wildlife <u>Canada geese (~8), 400 fish (~20), 2 Great Blue Herons</u>							
In-Situ Habitat				Physical Characteristics of Pond			
Substrate (<=>) Bo - Boulder Co - Cobble Gr - Gravel Sa - Sand Si - Silt Cl - Clay MK - Muck DT - Detritus <u>Si = 5a > mk</u>				Estimated Size: <u>300m x 50m</u> Estimated Depth (m): <u>END</u> Notes: <u>not wadeable</u>			
In-Situ Cover (%)							
None	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	Structures	Other	
	<u>5</u>			<u>85</u>			
Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%							
*Aquatic Vegetation Species Present (algae, submergent, emergent etc.)							
<u>Pondweed</u>							
Description and Width of Riparian Vegetation <u>forest 200-100m</u>							

Water Bodies (Pond) Assessment Field Collection Form

P8

AECOM

Date: June 25, 2012

Land Parcel/Site ID: GSH 1066
Pond D04

Page 2 of 2

Online Pond ☒ Y ☐ N

Provide Description watercourse D04 dammed resulting in Pond.

Offline Pond ☐ Y ☒ N

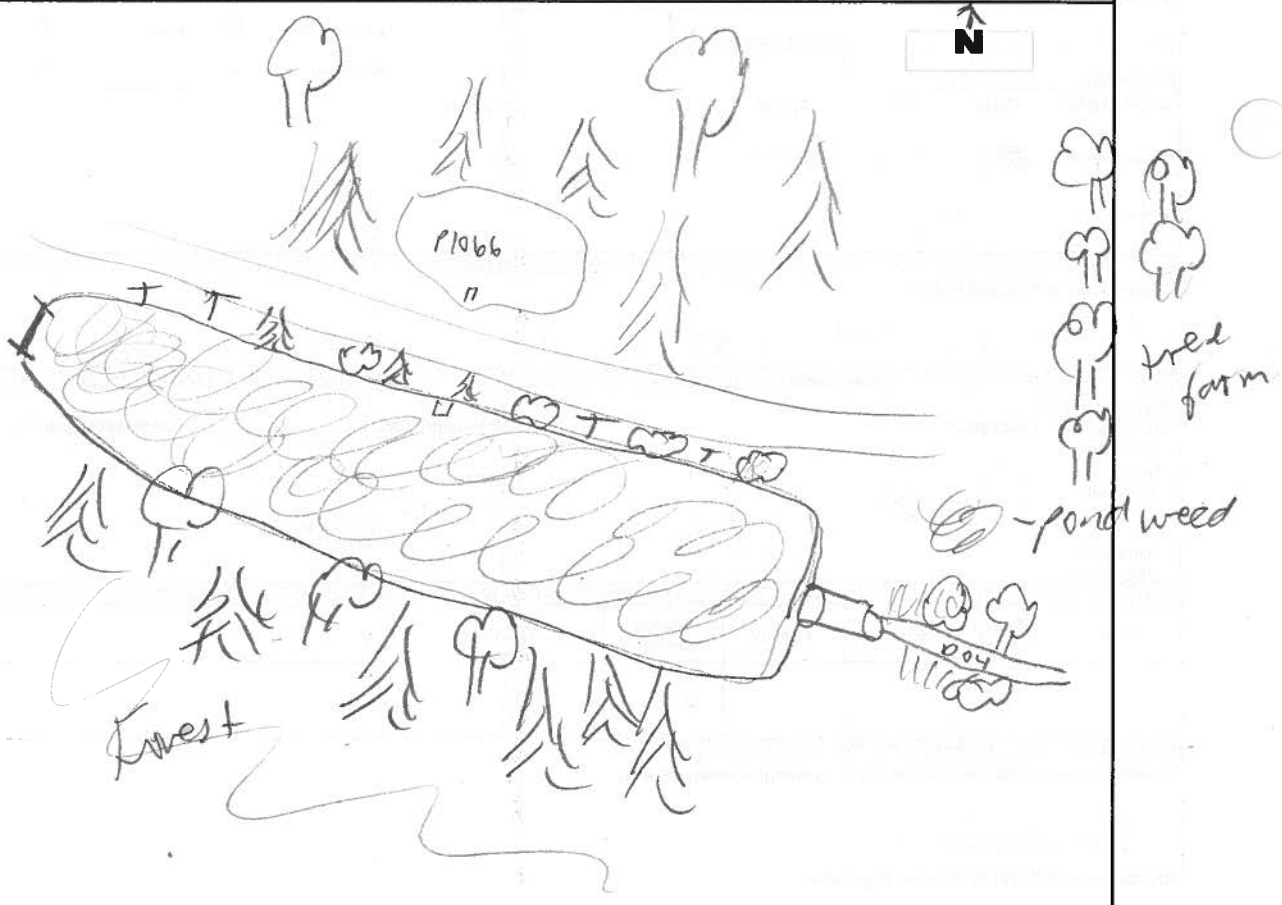
Other General Comments Regarding the Study Area:

Pond is pondweed ~~choked~~ choked.

It is also connected to P1066 → P1066 outlets to P D04

Photo log	
Picture #	Description
1-2	sheet overview
3	pondweed
4	looking west from east end
5	

Sketch of Pond



Initial QA/QC By: L. Bentley

Date: June 26, 2012

Technical QA/QC By: J. K. K.

Date: Aug 21/12

Water Bodies (Pond) Assessment Field Collection Form

Page 1 of 2

AECOM

General Information

Study Area: Jericho Goshen Bluewater Land Parcel# GSH1066 Site ID: 0101 P8
 Date: April 18/12 Start time: 14:25 End Time: 15:53
 Weather Conditions: Sunny, 12°C Field Crew: C. Boros, S. Lohr
 Field Notes By: C. Boros

Site Location

South Rd, east of Blackbush Ln

UTM Co-ordinates (continue on page 3 if necessary)

Easting: 0448230 Northing: 4791034 Description: at dam

Easting: Northing: Description:

Surrounding Landuse

Residential ☐ Meadow ☐
 Agriculture ☐ Wetland ☐
 Forest ☒ Livestock ☐
 Other ☐

Description:

Type of Pond

Natural ☐ Dammed ☒
 Permanent ☐ Seasonal ☐
 Dugout Pond ☐ Used for Farming ☐
 Vernal Pools ☐

Description:

result of a dam

In-Situ Water Quality

WT (°C): AT (°C):
 pH: Cond (s/cm):
 D.O. (mg/L)
 Water Clarity: Clear ☐ Turbid ☐

Water Colour:

did not complete.

Ground Water and Seepage Indicators

Watercress ☐ Bank Seepage ☐
 Iron Staining ☐ None ☒
 Bubbling ☐
 Other ☐

Details:

Wildlife Observations

Observations of Fish and Wildlife

did not see anything

In-Situ Habitat

Substrate (< = >)

Bo - Boulder
 Co - Cobble
 Gr - Gravel
 Sa - Sand
 Si - Silt
 Cl - Clay
 MK - Muck
 DT - Detritus

Description

Could not assess

Physical Characteristics of Pond

Estimated Size: 250m x 50m Estimated Depth (m): could not assess

Notes:

In-Situ Cover (%)

None	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	Structures	Other
						<u>water too deep + turbid to assess</u>

Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%

*Aquatic Vegetation Species Present (algae, submergent, emergent etc.)

Description and Width of Riparian Vegetation

Water Bodies (Pond) Assessment Field Collection Form

AECOM

Date:

April 18/12

Land Parcel/Site ID:

G54/1066

P8

Page 2 of 2

Online Pond ☒ Y ☐ N

Provide Description

on a stream line, pond result of a dam

Offline Pond ☐ Y ☒ N

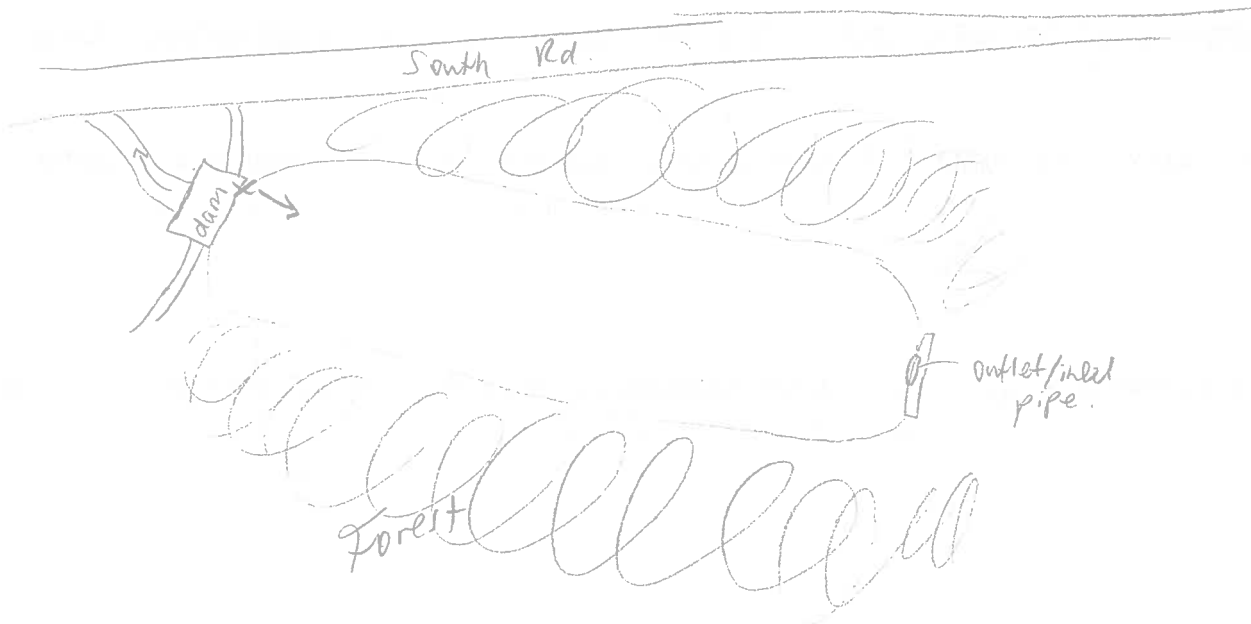
Other General Comments Regarding the Study Area:

Pond a result of the dam

Photo log	
Picture #	Description
1,2	photos from dam
4	

Sketch of Pond

N



Initial QA/QC By: L. Bentley

Date: Aug 2, 2012

Technical QA/QC By:

Satkin

Date: Aug 2/12

Water Bodies (Pond) Assessment Field Collection Form

AECOM

Page 1 of 2

P9

General Information

Study Area: Jericho Goshen Bluewater Land Parcel# 1606 Site ID: Pond 1606 (D95 Pond)
 Date: May 11/12 Start time: 9:45 End Time: 10:00
 Weather Conditions: Sunny, 14°C Field Crew: C. Boros, J. Epp
 Field Notes By: C. Boros

Site Location

Corbett Ln, North of Crediton

Roadside Survey

UTM Co-ordinates (continue on page 2 if necessary)

Easting: 443267 Northing: 4792536 Description: D95 Pond
 Easting: Northing: Description:

Surrounding Landuse

Type of Pond

Residential ☐ Meadow ☐
 Agriculture ☐ Wetland ☐
 Forest ☒ Livestock ☐
 Other

Natural ☐ Dammed ☐
 Permanent ☐ Seasonal ☐
 Dugout Pond ☐ Used for Farming ☐
 Vernal Pools ☐ Unknown ☒

Description: deciduous

Description: looks natural from road but could not confirm.

In-Situ Water Quality

Ground Water and Seepage Indicators

WT (°C): / AT (°C): /
 pH: / Cond (s/cm): /
 D.O. (mg/L) /
 Water Clarity: Clear ☒ Turbid ☐

Watercress ☐ Bank Seepage ☐
 Iron Staining ☐ None ☐
 Bubbling ☐
 Other ☐

Water Colour: brown tinge

Details: Could not see any

Biological Observations

Observations of Fish and Wildlife

Wood frog, Redwinged blackbird

In-Situ Habitat

Physical Characteristics of Pond

Substrate (<=>) Description
 Bo - Boulder
 Co - Cobble
 Gr - Gravel
 Sa - Sand
 Si - Silt
 Cl - Clay
 MK - Muck
 DT - Detritus
n/a

Estimated Size: 40m x 20m Estimated Depth (m): n/a
 Notes:

In-Situ Cover (%)

None	Woody Debris	Boulders	Cobble	Aquatic Vegetation	Structures	Other

Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%

*Aquatic Vegetation Species Present (algae, submergent, emergent etc.)

n/a

Description and Width of Riparian Vegetation

mixed deciduous forest - poplar, white birch, Pine, honeysuckle

Water Bodies (Pond) Assessment Field Collection Form

AECOM

Date: May 11/12

Land Parcel/Site ID: 6541606

Page 2 of 2

29

DOS Pond

Other General Comments Regarding the Study Area:

Trees buffering pond blocking clear view i. hard to assess
 Could see cattail around edges & algae in pond
 Appears to be shallow

Picture #	Description	Picture #	Description
1-3	from Roadside		

Shaded Pond

N



V - ct
 E - algae

Initial QA/QC By: L. Bentley

Date: May 16, 2012

Technical QA/QC By: Skatkin

Date: May 30/12

Water Bodies (Pond) Assessment Field Collection Form

Page 1 of 2

ASCOM

General Information

Study Area: Jericho Goshen Bluewater Land Parcel# 1099 Site ID: P10
 Date: Dec 22/11 Start time: 11:15 End Time: 11:20
 Weather Conditions: Sunny Field Crew: S. Aitken, T. Shorney
 Field Notes By: S. Aitken

Site Location

located east of Mollard Line

UTM Co-ordinates

Easting: 439608 Northing: 4788696 Description: pond
 Easting: Northing: Description:

Surrounding Landuse

Residential ☐ Meadow ☐
 Agriculture ☒ Wetland ☐
 Forest ☐ Livestock ☐
 Other

Description:

old corn field

Type of Pond

Natural ☐ Dammed ☐
 Permanent ☐ Seasonal ☐
 Dugout Pond ☒ Used for Farming ☒
 Vernal Pools ☐

Description:

In-Situ Water Quality none taken

WT (°C): AT (°C):
 pH: Cond (s/cm):
 D.O. (mg/L)
 Water Clarity: Clear ☐ Turbid ☐
 Water Colour:

Ground Water and Seepage Indicators

Watercress ☐ Bank Seepage ☐
 Iron Staining ☐ None ☒
 Bubbling ☐

Details:

Wildlife Observations

Observations of Fish and Wildlife

none - pond has garbage in it

In-Situ Habitat

Substrate (< = >)

Bo - Boulder
 Co - Cobble
 Gr - Gravel
 Sa - Sand
 Si - Silt
 Cl - Clay
 MK - Muck
 DT - Detritus

Description

Si

Physical Characteristics of Pond

Estimated Size: Estimated Depth (m):

Notes:

In-Situ Cover (%)

None	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	Structures	Other
						<u>garbage</u>

Note: Low = 0 - 30% ; Moderate = 30 - 75% ; High = 75 - 100%

*Aquatic Vegetation Species Present (algae, submergent, emergent etc.)

Description and Width of Riparian Vegetation

farmed right up to pond

Water Bodies (Pond) Assessment Field Collection Form

AECOM

Date: DEC 22/12

Land Parcel/Site ID: 1099 - P10

Page 2 of 2

Online Pond Y ☒ N ☐ Provide Description

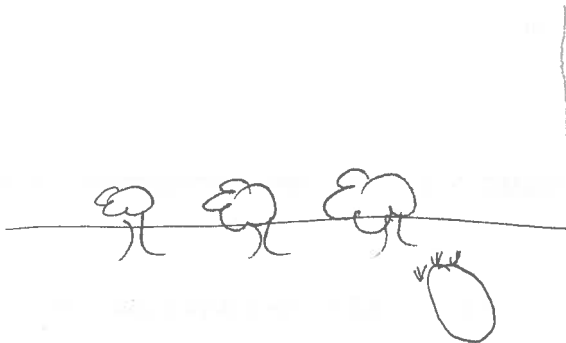
Offline Pond ☒ Y ☐ N

Other General Comments Regarding the Study Area:

Photo log	
Picture #	Description
52-53	

Sketch of Pond

N



Initial QA/QC By: L. Bentley

Date: Aug. 2, 2012

Technical QA/QC By:

Date:

Water Bodies (Pond) Assessment Field Collection Form

AECOM						Page 1 of 2	
General Information							
Study Area: Jericho <u>Goshen</u> Bluewater		Land Parcel# <u>G7S# 2586</u>		Site ID: <u>P2586</u> <u>(P11)</u>			
Date: <u>June 22 / 12</u>		Start time: <u>10:10</u>		End Time: <u>10:50</u>			
Weather Conditions: <u>Sunny, 20°C</u>				Field Crew: <u>C. Boros, J. EPP</u>			
				Field Notes By: <u>C. Boros</u>			
Site Location							
<u>Kirkton Rd, East of Sunshine Line.</u>							
UTM Co-ordinates							
Easting: <u>472466</u>		Northing: <u>479818</u>		Description: <u>P2586</u>			
Easting:		Northing:		Description:			
Surrounding Landuse				Type of Pond			
Residential ☐	Meadow ☐			Natural ☒	Dammed ☐		
Agriculture ☒	Wetland ☐			Permanent ☐	Seasonal ☒		
Forest ☐	Livestock ☐			Dugout Pond ☐	Used for Farming ☐		
Other ☐				Vernal Pools ☐			
Description: <u>soy bean crop field</u>				Description: <u>depression area that floods during wet events</u>			
In-Situ Water Quality				Ground Water and Seepage Indicators			
WT (°C): <u>24.3</u>		AT (°C): <u>20</u>		Watercress ☐		Bank Seepage ☐	
pH: <u>7.75</u>		Cond (s/cm): <u>458</u>		Iron Staining ☐		None ☒	
D.O. (mg/L): <u>3.21</u>				Bubbling ☐			
Water Clarity: Clear ☐		Turbid ☒		Details:			
Water Colour: <u>brown, cloudy</u>							
Wildlife Observations							
Observations of Fish and Wildlife <u>none observed</u>							
In-Situ Habitat				Physical Characteristics of Pond			
Substrate (< = >) Bo - Boulder Co - Cobble Gr - Gravel Sa - Sand Si - Silt Cl - Clay MK - Muck DT - Detritus				Estimated Size: <u>15m x 10</u>			
Description: <u>Si = Cl</u>				Estimated Depth (m): <u>0.25</u>			
				Notes: <u>shallow for most</u>			
In-Situ Cover (%)							
None	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	Structures	Other	
				<u>30</u>			
Note: Low = 0 - 30% ; Moderate = 30 - 75% ; High = 75 - 100% *Aquatic Vegetation Species Present (algae, submergent, emergent etc.) <u>Emergent grasses + sedges</u>							
Description and Width of Riparian Vegetation							
<u>grasses ~ 0.5 - 2m then crop crop</u>							

Water Bodies (Pond) Assessment Field Collection Form

P11

AECOM

Date: June 22/12

Land Parcel/Site ID:

Pond = GSH2506

Page 2 of 2

Online Pond

☒ Y ☐ N

Provide Description

in middle of field - no watercourse in area

Offline Pond

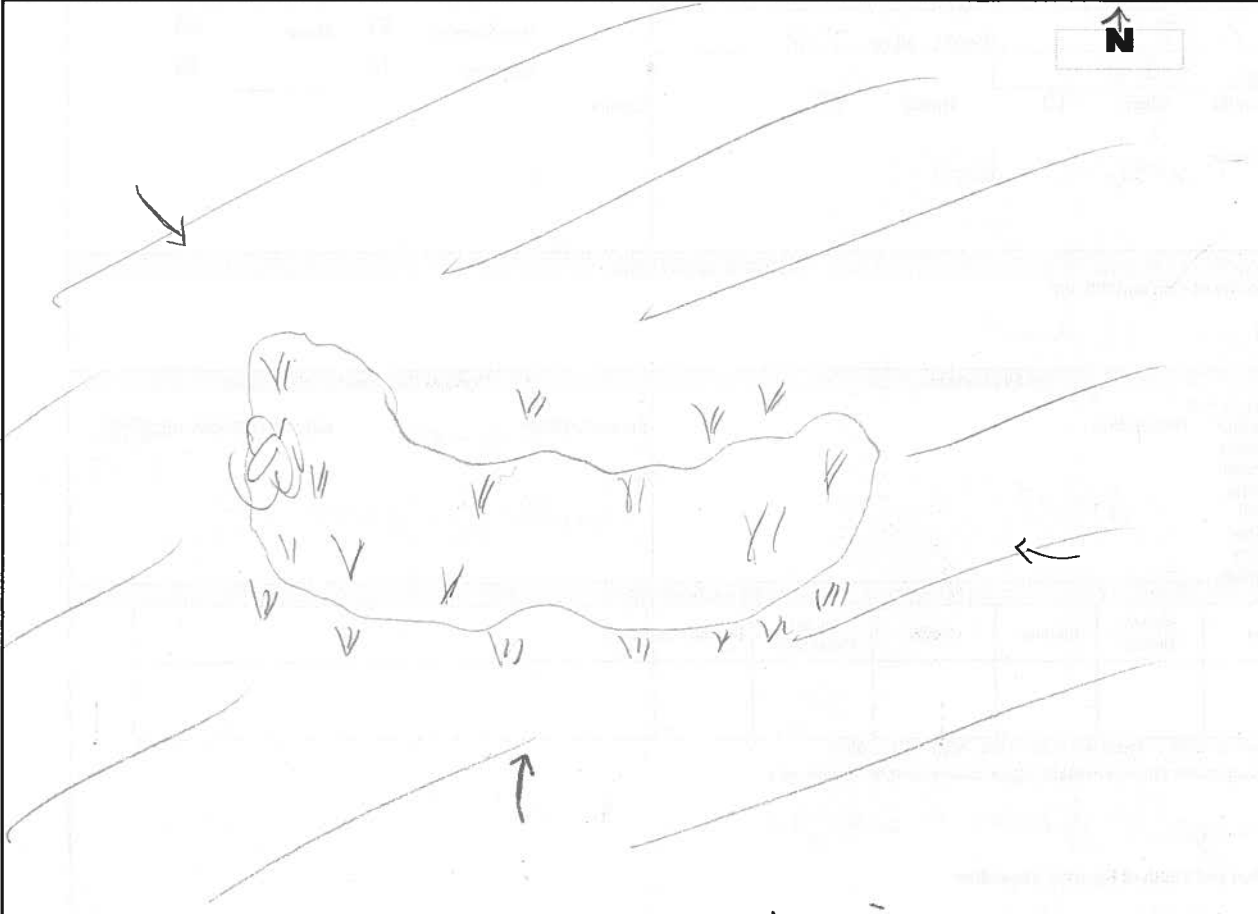
☒ Y ☐ N

Other General Comments Regarding the Study Area:

* ponded area a result of natural depression + high water events (spring melt + rainstorms)

Photo log	
Picture #	Description
1a	map
1b-3	view

Sketch of Pond



Initial QA/QC By:

L Bentley

Date:

June 26, 2012

Technical QA/QC By:

Butken

Date:

July 10/12

Project Number: 60155032

Water Bodies (Pond) Assessment Field Collection Form

P12

ASCOM

Date: June 22/12

Land Parcel/Site ID: GS#3062

Page 2 of 2

Online Pond ☒ Y ☐ N

Provide Description

No connection to a watercourse

Offline Pond ☒ Y ☐ N

Other General Comments Regarding the Study Area:

Small pond in forest, completely covered in duckweed. Steep banks with no vegetation and some woody debris. Rock pile and clay pot pile to the south of the pond.

Photo log	
Picture #	Description
1a	Sheet close up Duckweed
2	close up
3-4	overview

Sketch of Pond



Initial QA/QC By: Bentley

Date: June 26, 2012

Technical QA/QC By: J. Antken

Date: July 10/12

Water Bodies (Pond) Assessment Field Collection Form

Page 1 of 2

AECOM

General Information

Study Area: Jericho Goshen Bluewater Land Parcel# 654 2717 Site ID: P2717 P13

Date: June 13/12 Start time: 9:05 End Time: 9:40

Weather Conditions: Sunny 11°C Field Crew: C. Boros, J. Epp
Field Notes By: C. Boros

Site Location

Ansable Cr, south of Kirkton

UTM Co-ordinates

Easting: 457 956 Northing: 479 4930 Description: P2717

Easting: Northing: Description:

Surrounding Landuse

Residential ☐ Meadow ☐
Agriculture ☒ Wetland ☐
Forest ☒ Livestock ☐
Other

Description:

Crn to west
forest to east

Type of Pond

Natural ☐ Dammed ☐
Permanent ☒ Seasonal ☐
Dugout Pond ☒ Used for Farming ☐
Vernal Pools ☐ possibly

Description:

In-Situ Water Quality

WT (°C): 18.8 AT (°C): 11°C
pH: 7.75 Cond (µs/cm): 586
D.O. (mg/L) 6.60
Water Clarity: Clear ☐ Turbid ☒

Water Colour: brown

→ dog followed us and went into pond
disturbing the substrate

Ground Water and Seepage Indicators

Watercress ☐ Bank Seepage ☐
Iron Staining ☐ None ☒
Bubbling ☐

Details:

Wildlife Observations

Observations of Fish and Wildlife

none observed

In-Situ Habitat

Substrate (<=>) Description
Bo - Boulder
Co - Cobble
Gr - Gravel
Sa - Sand
Si - Silt
Cl - Clay
MK - Muck
DT - Detritus

Si = cl

Physical Characteristics of Pond

Estimated Size: 50x15m Estimated Depth (m): ↓

Notes:

too deep to wade

In-Situ Cover (%)

None	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	Structures	Other

Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%

*Aquatic Vegetation Species Present (algae, submergent, emergent etc.)

* habitat hard to access due to turbidity.

Description and Width of Riparian Vegetation

5 - 15 meters - meadow → then forest on east side

Water Bodies (Pond) Assessment Field Collection Form

AECOM

Date: June 13/12

Land Parcel/Site ID: GSH2717

P13

Page 2 of 2

Online Pond Y ☒ N

Provide Description

did not see Connecting Channels → dense thicket ^{however}

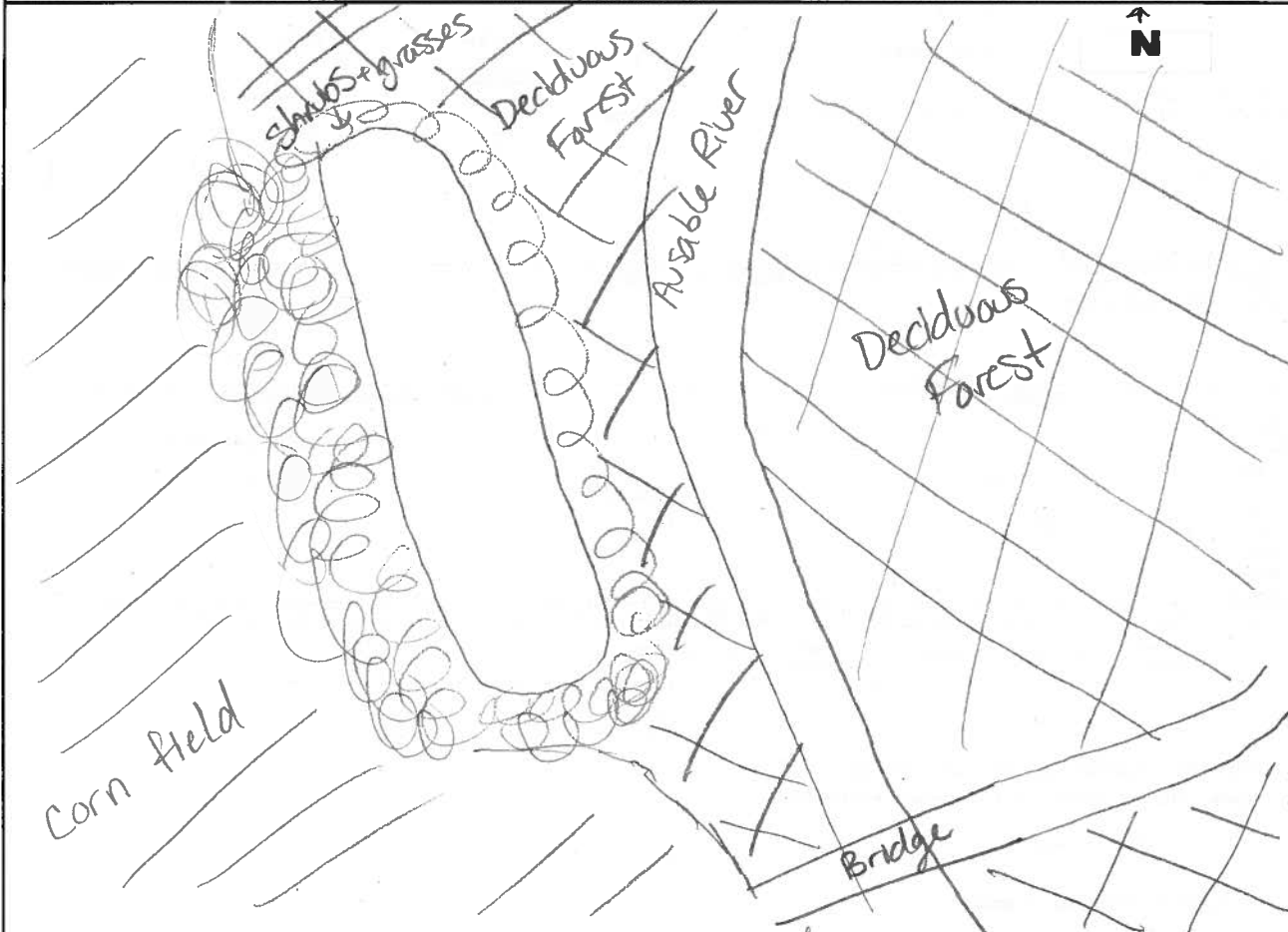
Offline Pond ☒ Y N

Other General Comments Regarding the Study Area:

Pond appears to be manmade

Photo log	
Picture #	Description
1a b-3	Sheet overview

Sketch of Pond



Initial QA/QC By: L. Bentley

Date: June 26, 2012

Technical QA/QC By: [Signature]

Date: July 9/12

Water Bodies (Pond) Assessment Field Collection Form

AECOM

Page 1 of 2

General Information

Study Area: Jericho Goshen Bluewater Land Parcel# GSH1066 Site ID: P1066 ~~P14~~ P14

Date: June 25/12 Start time: 14:10 End Time: 14:20

Weather Conditions: Sunny, 15°C

Field Crew: C. Boros, J. Epp

Field Notes By: C. Boros

Site Location

South Rd, east of Blackbush Line

UTM Co-ordinates

Eastings: 448343 Northing: 4791007 Description: P1066

Eastings: Northing: Description:

Surrounding Landuse

Residential ☐

Agriculture ☐

Forest ☒

Other ☐

Meadow ☐

Wetland ☐

Livestock ☐

Type of Pond

Natural ☐

Dugout Pond ☒

Vernal Pools ☐

Dammed ☐

Seasonal ☐

Used for Farming ☐

Description:

~~mixed~~ mixed forest

dugout

In-Situ Water Quality

WT (°C): 23.9 AT (°C): 15°C

pH: 8.1/6 Cond (µs/cm): 561

D.O. (mg/L) 6.11

Water Clarity: Clear ☐ Turbid ☒

Water Colour: green

Ground Water and Seepage Indicators

Watercress ☐ Bank Seepage ☐

Iron Staining ☐ None ☒

Bubbling ☐

Details:

Wildlife Observations

frogs observed (green & yellow)

In-Situ Habitat

Substrate (<=>)

Bo - Boulder

Co - Cobble

Gr - Gravel

Sa - Sand

Si - Silt

Cl - Clay

MK - Muck

DT - Detritus

Description

sn = si >> mk

Physical Characteristics of Pond

Estimated Size: 20x20m Estimated Depth (m): 1

Notes: not wadeable

In-Situ Cover (%)

None	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	Structures	Other
	<u>1</u>			<u>5</u>		

Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%

*Aquatic Vegetation Species Present (algae, submergent, emergent etc.) grasses

*hard to determine due to turbidity

Description and Width of Riparian Vegetation

forest mixed 5-15m

Water Bodies (Pond) Assessment Field Collection Form

AECOM

Date: June 25, 2012

Land Parcel/Site ID:

Pond = P14
GSH-1066

Page 2 of 2

Online Pond Y / ☒ N

Provide Description

not connected to stream

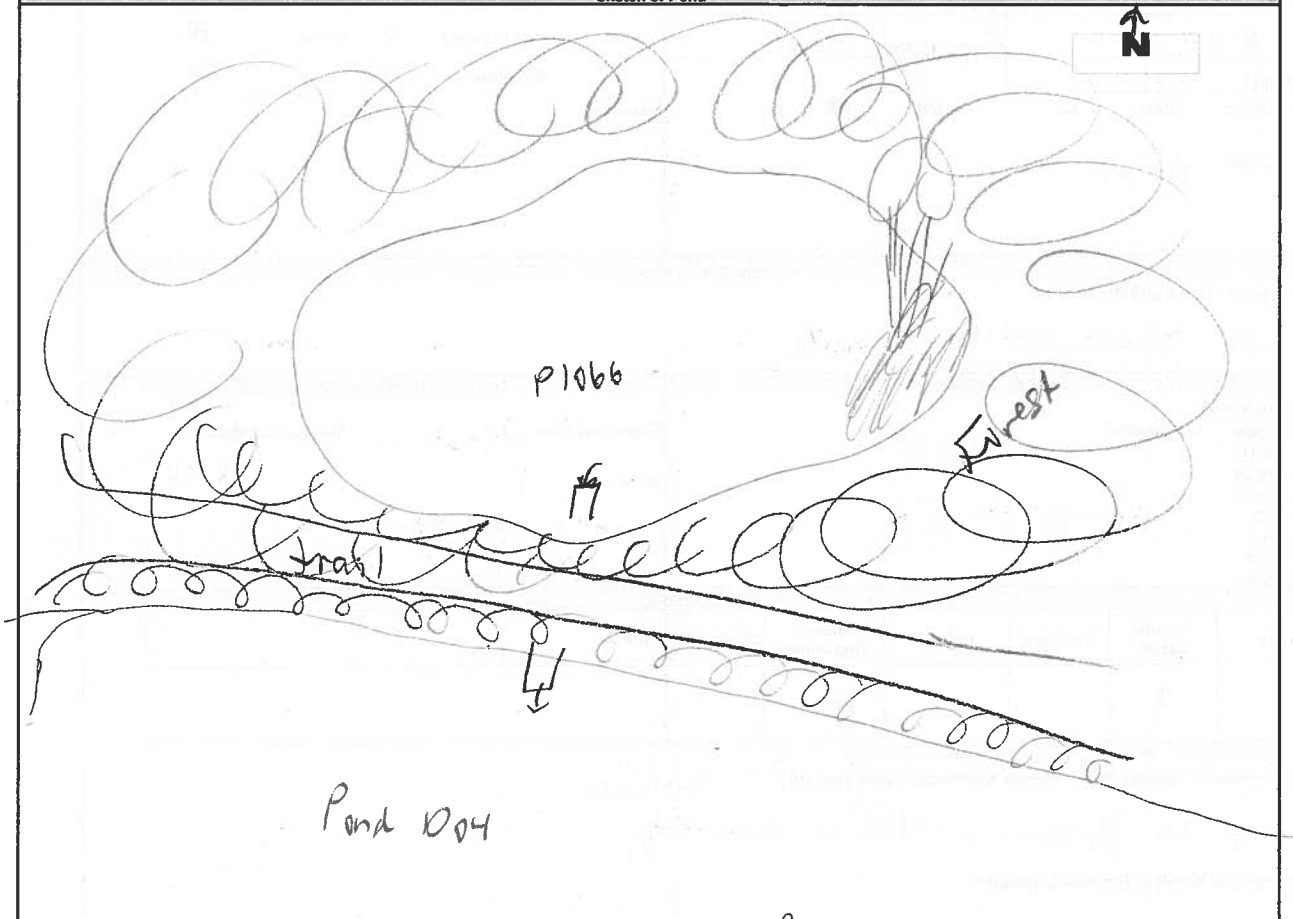
Offline Pond ☒ Y / N

Other General Comments Regarding the Study Area:

appears to be a dugout pond & has overflow pipe that
gushes to Pond 104.

Photo log	
Picture #	Description
1a 1b-3	sheet overview
4	gusher pipe

Sketch of Pond



Initial QA/QC By: L Bentley

Date: June 26, 2012

Technical QA/QC By:

J. L. Baker

Date:

July 10/12

Water Bodies (Pond) Assessment Field Collection Form

AECOM

Page 1 of 2

General Information

Study Area: Jericho Goshen Bluewater Land Parcel# GSH 1081 Site ID: 218 P15
 Date: April 17/18 Start time: 17:00 End Time: 17:15
 Weather Conditions: Sunny, 10°C Field Crew: C. Boros, J. Lohmes
 Field Notes By: C. Boros

Site Location

Crediton Rd. , west of Bronson

UTM Co-ordinates (continue on page 3 if necessary)

Easting: 0448225 Northing: 4793143 Description: North side of pond
 Easting: Northing: Description:

Surrounding Land Use

Residential ☐ Meadow ☐
 Agriculture ☒ Wetland ☐
 Forest ☐ Livestock ☐
 Other

Description:

crop

Type of Pond

Natural ☐ Dammed ☐
 Permanent ☐ Seasonal ☐
 Dugout Pond ☐ Used for Farming ☐
 Vernal Pools ☐

Description:

Could not assess

In-Situ Water Quality

WT (°C): 10.16 AT (°C): 10°C
 pH: 8.6 Cond (µs/cm): 310
 D.O. (mg/L) 5.55
 Water Clarity: Clear ☐ Turbid ☒
 Water Colour: brown

Ground Water and Seepage Indicators

Watercress ☐ Bank Seepage ☐
 Iron Staining ☐ None ☒
 Bubbling ☐
 Other ☐

Details:

Wildlife Observations

Observations of Fish and Wildlife

none observed in pond

In-Situ Habitat

Substrate (<=>)

Bo - Boulder
 Co - Cobble
 Gr - Gravel
 Sa - Sand
 Si - Silt
 Cl - Clay
 MK - Muck
 DT - Detritus

Description

too deep to assess

Physical Characteristics of Pond

Estimated Size: Estimated Depth (m):

Notes:

20m x 10m

In-Situ Cover (%)

None	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	Structures	Other
	<u>10</u>			<u>40</u>		

Note: Low = 0 - 30% ; Moderate = 30 - 75% ; High = 75 - 100%

*Aquatic Vegetation Species Present (algae, submergent, emergent etc.)

floating leaves off trees, algae, submergent filamentous algae, emergent grasses
emergent veg

Description and Width of Riparian Vegetation

2m - trees + shrubs

Water Bodies (Pond) Assessment Field Collection Form

AECOM

Date: April 17/12

Land Parcel/Site ID: 6541021 / D18

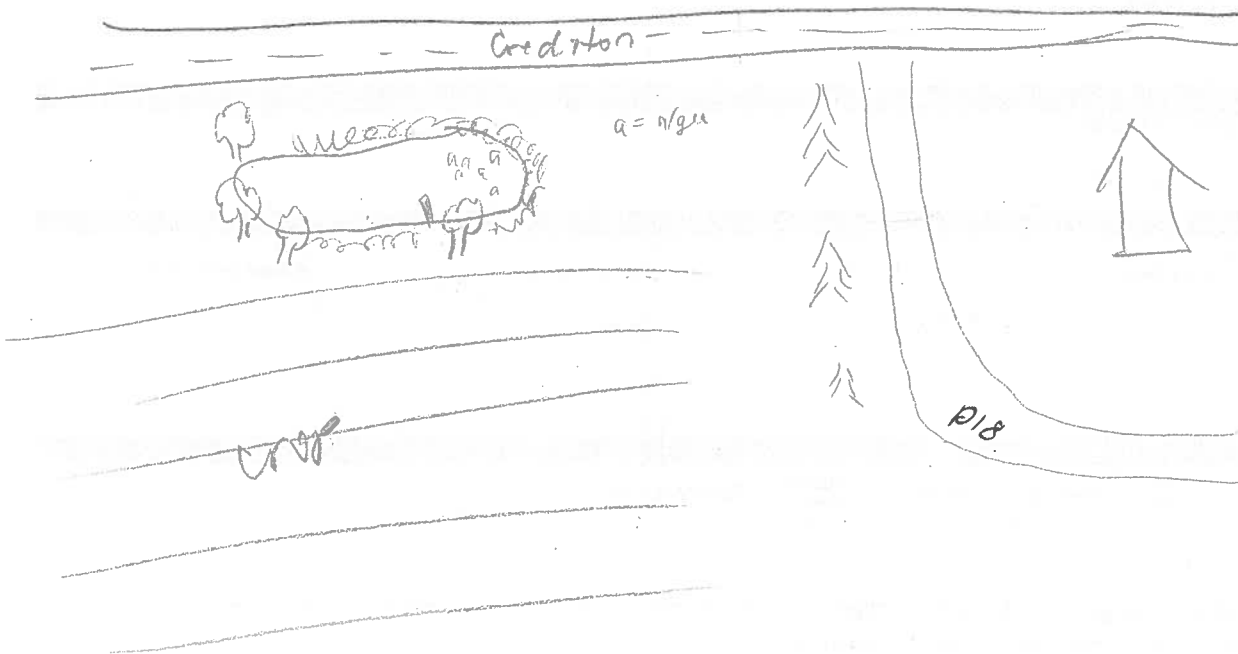
P15 Page 2 of 2

Other General Comments Regarding the Study Area:

- roadside
- could dig out no little of surrounding veg is associated w wet envt
- did not observe connection to surface water feature

Picture #	Description	Picture #	Description
1-014	Sik overview		
2-4	Pond		

Sketch of Pond



Initial QA/QC By: AUS

Date: Apr 19/12

Technical QA/QC By: S. L. Ken

Date: May 20/12

Property ID:

G3H1509

P17

Date:

Nov 18-2011

Property Access:

Shipka

Start Time:

11:10

End Time:

11:15

Field Investigators:

Dart + Ferris

Weather:

Sunny, 0°C

Terrestrial Feature Present: No ☐ Yes ☒

Provide brief description of observations (i.e. hedgerow, treerow, woodlot, valleylands, deciduous vs coniferous, crop)

Pond beside (west of edge woodlot)

Perhaps ELC already completed.

Photograph Numbers:

Aquatic Feature Present: No ☐ Yes ☒

Provide brief description (i.e. drainage ditch, watercourse, intermittent, permanent)

GPS = 1509PD = 446382, 4791849

Pond ~ 40m long - iced over - Bulrushes,

Cattails (few), sedges + grasses with water.

Vegetated banks.

Dead frog observed - unable to ID

Bank height ~ 1.0m

Photograph Numbers:

#181-183

Water Bodies (Pond) Assessment Field Collection Form

AECOM						Page 1 of 2	
General Information							
Study Area: Jericho <u>Goshen</u> Bluewater		Land Parcel# <u>1745 (ASA)</u>		Site ID: <u>R18</u>			
Date: <u>Apr 06/12</u>		Start time: <u>10:30</u>		End Time: <u>10:35</u>			
Weather Conditions: <u>Sunny</u>				Field Crew: <u>S. Aitken, S. Lohnes</u>			
				Field Notes By: <u>S. Aitken</u>			
Site Location							
<u>West of Blackbush line, north of crediton</u> <u>ASA - fence line survey</u>							
UTM Co-ordinates							
Easting: <u>446579</u>		Northing: <u>4793544</u>		Description: <u>Fence Line</u>			
Easting:		Northing:		Description:			
Surrounding Landuse				Type of Pond			
Residential ☐		Meadow ☐		Natural ☐		Dammed ☐	
Agriculture ☒		Wetland ☐		Permanent ☒		Seasonal ☐	
Forest ☐		Livestock ☐		Dugout Pond ☒		Used for Farming ☐	
Other ☐				Vernal Pools ☐			
Description: <u>Winter wheat</u>				Description:			
In-Situ Water Quality				Ground Water and Seepage Indicators			
<u>none taken</u>							
WT (°C):		AT (°C):		Watercress ☐		Bank Seepage ☐	
pH:		Cond (s/cm):		Iron Staining ☐		None ☐	
D.O. (mg/L)				Bubbling ☐		☐	
Water Clarity: Clear ☐		Turbid ☐		Details: <u>unknown</u>			
Water Colour:		<u>Could not see</u>					
Wildlife Observations							
Observations of Fish and Wildlife <u>unknown</u>							
In-Situ Habitat				Physical Characteristics of Pond			
Substrate (<=>) Bo - Boulder Co - Cobble Gr - Gravel Sa - Sand Si - Silt Cl - Clay MK - Muck DT - Detritus				Estimated Size: Estimated Depth (m):			
<u>unknown</u>				Notes: <u>unknown.</u>			
In-Situ Cover (%)							
None	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	Structures	Other	
Note: Low = 0 - 30% ; Moderate = 30 - 75% ; High = 75 - 100% *Aquatic Vegetation Species Present (algae, submergent, emergent etc.) <u>unknown</u>							
Description and Width of Riparian Vegetation							
<u>Surrounded by deciduous trees & grasses</u>							

Water Bodies (Pond) Assessment Field Collection Form

AECOM

Date: Apr 26/12

Land Parcel/Site ID: 1044 - P18

Page 2 of 2

Online Pond Y ☒ N Provide Description

Offline Pond ☒ Y N

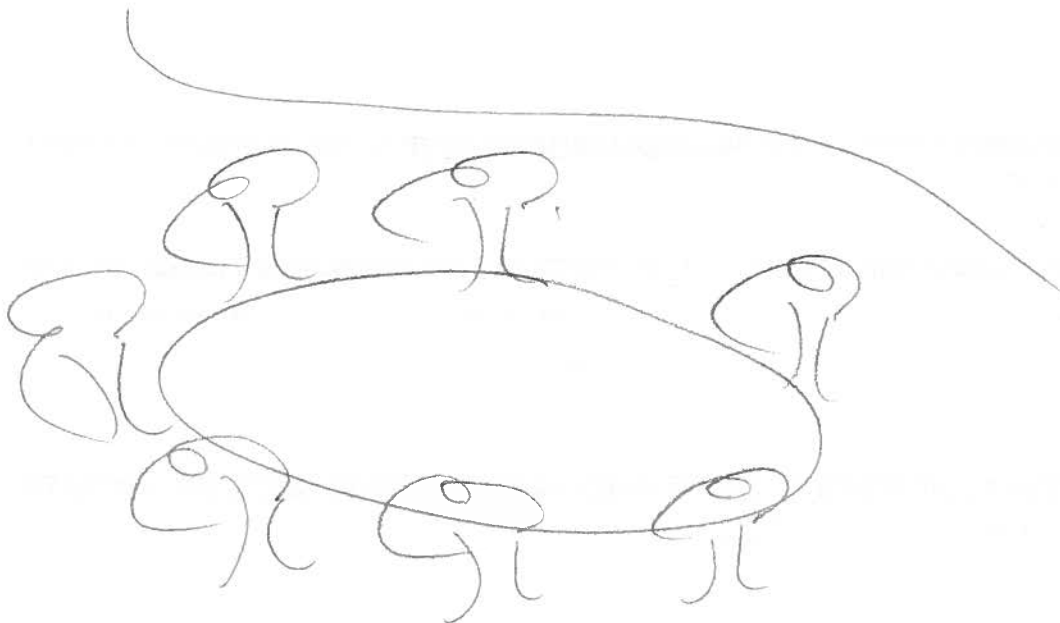
Other General Comments Regarding the Study Area:

- fence line survey
- pond in middle of agricultural field surrounded by deciduous trees

Photo log	
Picture #	Description
17-20	facing north

Sketch of Pond

N



x - x - x - x - x - x - x - x - x - x - x

Initial QA/QC By: L. Bentley

Date: Aug. 2, 2012

Technical QA/QC By:

AR200 -

Date: Aug 2nd 2012

Property ID: GSH 2024 48 P19
GSH 2181 observed from 2024

Date: Dec 22 / 2011

Property Access: GSH 2024

Start Time: 10:50

End Time: 11:10

Field Investigators: SA + TS

Weather: Partly cloudy, 5°C

Terrestrial Feature Present: No ☐ Yes ☐

Provide brief description of observations (i.e. hedgerow, treerow, woodlot, valleylands, deciduous vs coniferous, crop)

Photograph Numbers: _____

Aquatic Feature Present: No ☒ Yes ☐

Provide brief description (i.e. drainage ditch, watercourse, intermittent, permanent)

low lying areas - No water observed
Pond water observed on Property 2181
Appears to be man made.

Photograph Numbers:

Pic 17 → 18 (of pond on 2181)
19 → Pond

719



Reconnaissance Assessment Record

Property ID: GSH 2181 Date: Nov 17-2011

Property Access: Gosheline Start Time: 4:05
End Time: 4:43

Field Investigators: Dart & Ferris Weather: Hail

Terrestrial Feature Present: No ☒ Yes ☐

Provide brief description of observations (i.e. hedgerow, treerow, woodlot, valleylands, deciduous vs coniferous, crop)

No feature

Photograph Numbers: _____

Aquatic Feature Present: No ☒ Yes ☐

Provide brief description (i.e. drainage ditch, watercourse, intermittent, permanent)

- #1. Area in northeast corner - saturated soil w grasses -
no tile drains observed, land slopes towards corner
- #2. Large saturated area completely covered by grasses + sedges
land slopes toward area from south. ~~Periodically~~ water seeping
up in pockets - not bubbling + no sheen - ground soft
algae on ground in areas

Photograph Numbers:

#127-129- northeast corner (#1)
#130-133- area #2