## **Jacobs**

# **Greater Dublin Drainage Project Addendum**

**Environmental Impact Assessment Report Addendum:** Volume 3A Part B of 6

**Appendix A10.3 - Written Responses to Biodiversity (Marine Ornithology) Queries at the 2019 Oral Hearing** 

**Uisce Éireann** 

October 2023

### An Bord Pleanála Oral Hearing

# Irish Water Greater Dublin Drainage

**Response to Questions raised by the Inspector** 

1. Response to Issues Raised on Breeding and Wintering Birds In Relation to Clonshagh Waste Water Treatment Plant:

Dr. Simon Zisman 27.03.2019

## Response to Issues Raised on Breeding and Wintering Birds In Relation to Clonshagh Waste Water Treatment Plant:

#### **Evidence on Biodiversity (Terrestrial and Aquatic):**

- 1 This statement responds to the issues raised on birds around the proposed Waste Water Treatment Plant (WwTP).
- 2 The first part of the statement addresses the Inspectors comment on nesting birds (including raptors).
- The second part addresses the wintering bird surveys that were completed for the Proposed Project, including survey method, dates of surveys and a summary of the results to understand the bird usage of the site.
- 4 Lastly the habitat and current use (intensive horticulture use) of the proposed WwTP site will be discussed in the context of its suitability for brent geese and other Special Protection Area (SPA) qualifying species.

#### Baldoyle Bay Special Protection Area (SPA) in Relation to the WwTP

Baldoyle Bay SPA is over 5km from the Clonshagh WwTP. The WwTP (as explained below) is of no importance for Special Conservation Interest species of this or any other SPA. This includes for brent geese, and also for all other migratory waders and wildfowl. The construction and operation of the WwTP will therefore have no adverse impact on the integrity of the SPA.

#### Breeding Birds (Including Raptors) at the WwTP

#### Terrestrial Breeding Bird Surveys (Including Raptors)

- Breeding bird surveys were carried out along the terrestrial section of the route, as set out in section 11.2.3 of Chapter 11 of the Environmental Impact Assessment Report (EIAR) (Volume 3 Part A) (with underlying terrestrial bird survey data submitted to the Hearing).
- Preeding bird surveys of the proposed WwTP were carried out in June 2012, April and June 2013, and repeated again between April and June in 2015 and May and June in 2017 using an abridged version of the British Trust for Ornithology's (BTO's) Common Bird Census Technique (Bibby et al. 2000; Gilbert et al. 1998). This method captured data on breeding bird activity within the survey area surrounding the proposed WwTP during the optimal survey window (April to July).
- The survey extended 250m around each component of the Proposed Project along the route and at Clonshagh.

#### Results

- 9 From breeding bird surveys carried out along the proposed route and at Clonshagh WwTP, three raptor species were recorded:- kestrel, sparrowhawk and buzzard. Records were all of birds in flight, and no nests of any of these raptor species were identified in vegetation that would need to be removed for the Proposed Project.
- From the Inspector's reference to 'large bird of prey', this would have been a buzzard.
- 11 Buzzards are a common tree-nesting raptor, resident all year round in this kind of farmland habitat.

#### **Baseline Information in the Application**

Baseline results for breeding birds are presented in section 11.3.5 of Chapter 11 of the Environmental Impact Assessment Report (Volume 3 Part A), including Table 11.12 which gives the birds recorded in 2015 and 2017 at the proposed WwTP site at Clonshagh.

#### **Assessment of Effects from Construction**

- The effects of the Construction Phase of the Proposed Project on breeding terrestrial birds are covered in section 11.4.5 of Chapter 11 of the Environmental Impact Assessment Report (Volume 3 Part A).
- There is potential risk of disturbance to nesting birds during the Construction Phase. However, this would be mitigated through a combination of pre-commencement nest checks by the Ecological Clerk of Works (ECoW), followed by assessment of any risk of disturbance to nests. This assessment would consider the nature of proposed construction activity (notably noise levels, the number of personnel and plant operating, and the lines of sight from the nest to these personnel and machinery). In order for disturbance to be avoided, the ECoW would therefore ensure the appropriate buffer distance was put in place between construction and nesting, so that the birds were not prevented from nesting successfully by associated noise or activity.
- These measures are all tried and tested standard ornithological mitigation measures, used successfully in similar construction projects.
- No impacts are predicted from the Operational Phase of the Proposed Project on this or any other bird species.

#### Conclusion in Relation to Breeding Birds Including Particular Reference to Raptors

The presence of buzzard noted by the Inspector is in line with breeding bird survey findings. Mechanisms are included in the application documentation to mitigate any impacts through identification and enforcement of suitable buffers around nests, to prevent disturbance from construction personnel or machinery. These measures would be implemented by the ECoW, as is standard and well-established practice on similar construction projects.

#### Winter Birds at the WwTP

<u>Terrestrial Winter Bird Surveys (Including for Brent Geese and Other SPA Special Conservation Interest Species)</u>

- Winter bird surveys were carried out along the terrestrial section of the route, as set out in section 11.2.3 of Chapter 11 of the Environmental Impact Assessment Report (EIAR) (Volume 3 Part A) (with underlying terrestrial bird survey data submitted to the Hearing) and at the Clonshagh site.
- The survey method used was the standard Winter Walkover Survey (Bibby et al. 2000; Gilbert et al. 1998). This method captured data on winter bird activity within the survey area surrounding the proposed WwTP during the optimal survey window (September to March).
- 20 The survey extended 250m around each component of the Proposed Project.
- 21 The choice and frequency of surveys were informed by desk study and scoping. Surveys were completed by highly experienced professional bird surveyors with extensive knowledge of birds that inhabit this type of farmland landscape in Ireland.

- The survey method covered migratory waders and wildfowl (including SPA Special Conservation Interest species), as well as other bird species.
- The survey data have been tabled as part of the precis submitted to the Hearing, at the request of the Inspector following evidence presented by Dr. Simon Zisman. As can be seen from the survey data supplied, the Proposed Project route was covered over a period of days, for each survey round.
- 24 Four surveys along the Proposed Project route (including the WwTP) were completed overall:
  - The first survey was completed in 2015 on the 30<sup>th</sup> January;
  - The second survey was completed in 2017 and comprised visits over the 24<sup>th</sup> and 27<sup>th</sup> November;
  - The third survey covered the route from 20<sup>th</sup> to 23<sup>rd</sup> March and the 27<sup>th</sup> and 30<sup>th</sup> March 2017; and
  - The fourth survey was completed on the 13<sup>th</sup> and 14<sup>th</sup> November 2017.

#### **Baseline Information in the Application**

- Baseline results for winter birds are presented in section 11.3.5 of Chapter 11 of the Environmental Impact Assessment Report (Volume 3 Part A). This confirmed:-
  - "There were no agglomerations of winter birds, such as geese or other wildfowl, or species reliant on farmland. The Proposed Project study area is therefore of no more than local importance for wintering birds".
- These findings were consistent with pre-existing desk study results that confirmed the WwTP area was not known as a site of any importance for wintering birds, including any migratory waders or wildfowl (including Special Conservation Interest of SPAs).
- The sequence of three winter surveys (and corroborated by a fourth), using the industry-standard Winter Walkover Survey method, and completed by experienced professional surveyors over a spread of months through the winter period, and spanning multiple years, therefore generated highly robust baseline data on the birds using the WwTP area, from which to inform the EIAR.

#### Assessment of Effects on Wintering Birds (Including Waders and Wildfowl)

The effects of the Construction Phase of the Proposed Project on wintering birds is covered in section 11.4.5 of Chapter 11 of the Environmental Impact Assessment Report (Volume 3 Part A).

#### Construction Phase

29 In the case of the proposed WwTP site there will be the permanent loss of habitat, although the great majority of this is again, characteristically, intensively farmed fields chiefly of local importance (lower value)

#### Operational Phase

No operational phase impacts are predicted.

#### Conclusion in Relation to Wintering Birds Including Waders and Wildfowl

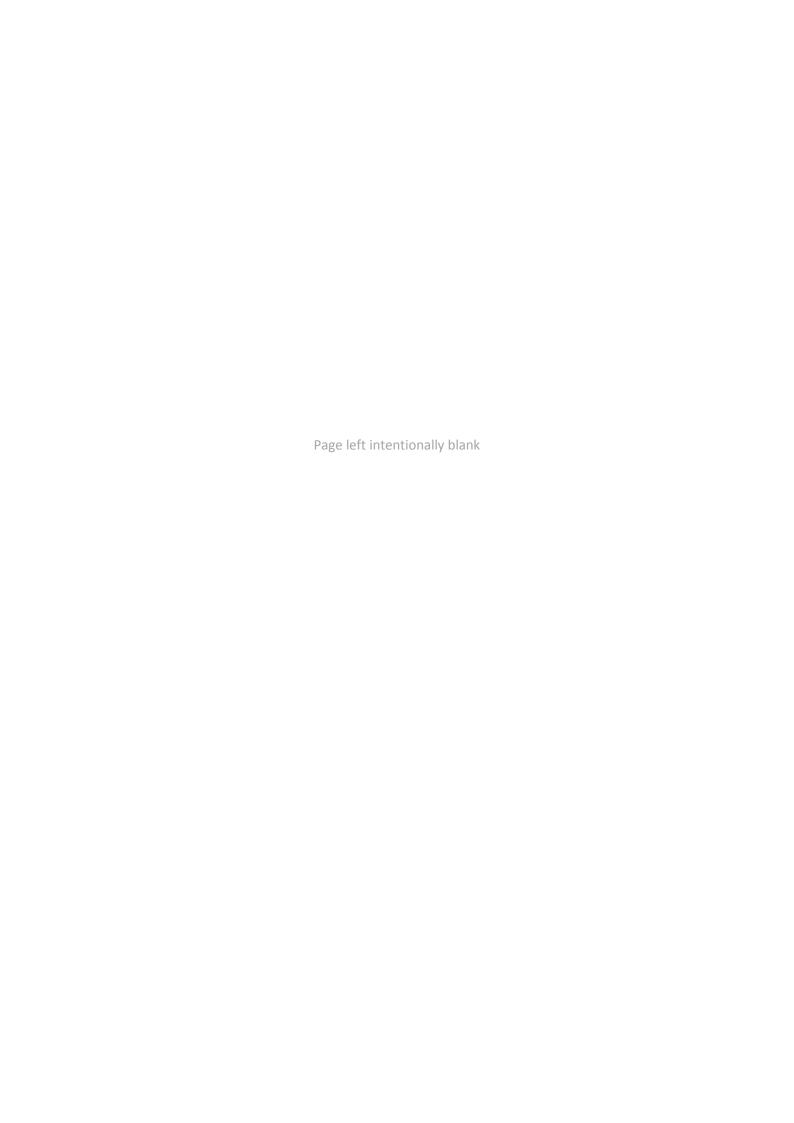
The WwTP area has been comprehensively surveyed over successive winter periods. The surveys were completed at Clonshagh using an appropriate survey method, by highly experienced professional bird surveyors, over an appropriate spread of winter months and over multiple years. The site is not used in any meaningful way by any Special Conservation Interest species from Baldoyle Bay or any SPA (including brent geese). Underpinned by the comprehensive site-specific data collected, the assessment shows there are no predicted impacts on wintering birds from either the Proposed Project's Construction or Operational Phase. This includes Special Conservation Interest species from Baldoyle Bay, Irelands Eye or other SPAs.

#### Description of Habitat the Proposed WwTP site For Breeding and Wintering Birds

- The limited number and diversity of breeding and winter bird species recorded at the WwTP site is entirely consistent with the habitat characteristics and farming land use at the site.
- The Phase 1 Habitat Survey results (Figure 11.5 in Chapter 11 and described in 11.3.2) show limited extent of hedgerows on site, and extensive monocultures of arable crops. The dominant habitat is therefore heterogeneous arable fields. During the crop growing season, once plants become established, the area is therefore of negligible value for breeding or wintering birds.
- As noted in Chapter 19 'Agronomy' of the EIAR, and drawing on discussions with the farmers, the WwTP lands are referred to as being used for intensive horticultural operations, producing a rotation of cabbage, cauliflower and broccoli, with spring-sewn wheat or barley grown as a break crop.
- As commonly occurs in intensive agricultural operations with high value crops, bird scarers have been deployed to protect crops from foraging birds (as noted during bird surveys completed at the proposed WwTP site). This further restricts the value of this proposed WwTP area for breeding and wintering birds.

#### Conclusion in Relation to Wintering Birds Including Waders and Wildfowl

36 Given the intensity of agricultural production, the site at Clonshagh is therefore of low value for breeding or wintering birds, including Special Conservation Interest species of Baldoyle Bay or other SPAs.



## An Bord Pleanála Oral Hearing

# Irish Water Greater Dublin Drainage

**Response to Inspector's Questions** 

Biodiversity (Marine & Terrestrial Ornithology) - Simon Zisman

## GDD Oral Hearing Response to Inspector's Questions

#### **Biodiversity (Marine & Terrestrial Ornithology)**

#### Bird Survey Raw Data - Terrestrial

The following Appendices provide the raw terrestrial bird data collected for the Greater Dublin Drainage Project. The data should be considered in conjunction with EIAR Chapter 11, which provides supplementary information on survey method and other background information.

A key to help interpret the data is also provided, extracted from Bibby et al<sup>1</sup>. (2000) (see Appendix 1).

The terrestrial bird data were collected between January 2015 and November 2017, and comprise:

- Winter surveys (for late winter 2014/15, early winter 2015/2016, late winter 2016/2017 and early winter 2017/2018); and
- Summer surveys (for 2015 and 2017).

The data is provided in the following format:

- Appendix 1 Key from Bibby et al (2000);
- Appendix 2 Winter 2015 (January and February);
- Appendix 3 Winter 2015 (November);
- Appendix 4 Winter 2017 (March);
- Appendix 5 Winter 2017 (November);
- Appendix 6 Summer 2015 (April and June); and
- Appendix 7 Summer 2017 (May and June).

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<sup>&</sup>lt;sup>1</sup> Bibby, C., N. Burgess, D. Hill, and S. Mustoe (2000) Bird Census Techniques. Academic Press. Elsevier. ISBN: 9780120958313

## GDD Oral Hearing Response to Inspector's Questions

## APPENDIX 1 KEY FROM BIBBY ET AL (2000)

The information below is taken from Bibby et al. (2000). It gives the standard notation for activity codes for birds and it provides the standard two-letter codes that are for recording birds and their behaviour.

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## **BTO SPECIES CODES**

	A .: DI	۸.	0.1.1	15	1	511	Ford Montin
AC	Arctic Skua	GA	Godwall	LE IT	Long-eared Owl	SM	Sand Martin
AE	Arctic Tern	GX	Connet	UT.	Long-kolled Til	SS TE	Sanderling Sandwich Tern
AV	Avacet	GW	Gorden Worbler	MG	Magple	_	Savi's Warbles
80	Born Owl	GY GC	Garganey Galdanest	MA	Mallard Mandarin Duck	VI SQ:	Scarlet Rosefinch
BY	Bornocle Goose			WN	Managarin Duck Mana Shearwater	SP	
B,A	Bartailed Godwa	EA	Golden Eagle Golden Oriole	MX MR	Marsh Harrier	CY	Scaup Scattish Crossbill
BIR	Bearded Te	OI.					
B5	Berwick's Swan	ĢF	Golden Pheasant	MT	Marsh Tit	SW NS	Sedge Worbler
Ba	Bittern	GP Co.	Golden Plower	MW	Marsh Wortsler		Serin
BK	Block Grouse	GN CO	Goldeneye	MP	Meadow Pipie	5A	Shog
TY	Black Guillemot	GO	Gold-inch	MU	Mediterranean Gul	SU	Shelduck
BX	Block Redstart	GD	Goosander	ML	Merlin	SX	Shorelarit
BJ	Block Tern	GI	Gashawk	M.	Miste Thrush	SE.	Short-eared Owl
В.	Blackbird	GH	Grasshopper Warbler	MO	Montage's Hower	SV	Shoveler
B∕C	Blockcop	GB	Great Black-booked Gull	WH	Moorhen	SK	Siskin
ВН	Block-headed Gull	GG	Great Crested Grebs	MS	Mule Swan	S.	Skylank
BN	Block-necked Grebe	ND	Gragt Northern Diver	N.	Nightingole	SZ.	Skovanian Grabe
BW	Block-toiled Godwill	NX	Great Skua	NI	Nightjor	5N	Snipe
BV	Black-throared Diver	GS	Great Spotted Woodpacker	NH	Numaich	58	Snow Burrling
ВТ	Blue Tit	GT	Great Tri	OP	Osprey	5T	Song Thrush
BU	Bluethroot	GE	Green Sandpiper	OC	Oystercatcher	SH	Sparrowhawk
BL	Brombling	G.	Green Woodpecker	PX	Peafowl/Psacock	AK	Sporred Crake
₿G	Brent Gaose	Gk	Greenfinch	PE	Peregrine	SF	Sported Physolohea
₽F	Bullinch .	GK	Greenshonk	PH	Pheasoni	DR	Spotted Redshank
θZ	Buzzard	H.	Gray Haron	PF	Pied Flycoatcher	SG	Storling
CG	Conada Goose	P	Grey Partridge	PW	Pied Wogfail	SD	Stack Dave
CP	Capercallie	GV	Grey Ployer	PĢ	Pink-footed Goose	SC	Stonechot
C.	Carrion Craw	GL	Grey Wagrail	PŢ	Pintgil	IN	\$tone-curlew
CW	Catti's Worbler	GJ	Greylag Goose	PO	Pochard	TM	Storm Pearel
ĊН	Chaffench	GU	Guillemat	PNA	Ploimigon	SI.	Swollow
CC.	Chiffchafil	FW	Guinealowl (Helmeled)	PU	Puffin	SI	Swift
ĆF	Chough	HF	Hawlinds	PS	Purple Sandpiper	TO	Towny Owl
CL	Cirl Burding	HH	Hen Homier	Q.	Quoil	Т	Teal
CT	Coal Tit	HG	Herring Goll	RIN	Raven	ΤK	Terreninck's Stint
CD	Collared Dove	HY	Hebby	RA.	Razarbill	ĪĖ	Tree Pipil
CM	Common Gull	ΗZ	Honey Buzzard	RG	Red Grouse	TS	Tree Sporrow
CS	Common Sondpiper	HC	Hooded Crow	ΚT	Red Kite	ŤĊ	Treccroepor
CX	Comition Score:	HP	Нооров	ΕĐ	Red-booked Shrike	TU	Tofted Duck
CN	Common Term	HM	House Martin	R/M	Red-breasted Merganser	π	Tomstone
CO	Coat	HS	House Sparrow	RGI	Red-crested Pochard	то	Tortie Dave
CA	Cormorant	JD	Jackdow	FV	Red-faoled Falcon	TW	Twile
CB	Com Bunting	J.	Jay	Ř1L	RedHegged Partridge	WA	Water Rad
ÇĘ	Compraise	K.	Kestrol	NK	Red-necked Phalarope	W.	Wheateor
ÇI	Crested Tit	KF	Kingfisher	LR	Redpoll (Lesser)	WM	Whimbrel
CR	Crossbill (Common)	KI	Kittiwaka	RK	Redsharik	WC	Whinehat
CK	Cuckoo	ĸм	Knol	RT	Redstort	₩G	White-fronted Goose
CU	Curlew	LW	Lady Amherst's Pheasant	RiH	Registrograd Diver	WH	Whitethroat
0W	Dariford Worble	LA	Lapland Buning	P.E	Redwing	W5	Whooper Swen
DI .	Dipper	L.	Lapwing	R/B	Read Bunting	WN	Wigeon
DO	Datteral	ΤL	Leach's Petrel	RW	Read Workler	WT	Willow Tit
DN	Donlin	LÚB	Lesser Black-backed Gull	RZ	Ring Ouzel	WW	Willow Warbler
D.	Donnock	LS	Lesser Sported Woodpecker	ŔÞ	Ringed Plover	OD	Wood Sandpiper
₿Ġ	Egyptian Goose	ţw	Losser Whitothroom	ŘΙ	Ring-necked Parakeet	WO	Wood Worbler
Ę.	Eider	ш	Linnet	R.	Rabin	WK	Waedcock
P	Feral Pigeon	हा	Little Egret	DV	Rack Dave (not feral)	WL	Woodlark
Ζl	Feral/hybrid goose	lG.	Little Grebe	RC.	Rock Pipit	WP	Woodpi <b>ge</b> on
ZF	Feral/hybrid mallard type	LU	Little Golf	RQ.	Rook	WŔ	V√ren
FF	Fieldfare	LO	Little Ovd	R5	Roseole Tern	WY	Wryneck
FC	Firecres*	P <sub>0</sub>	Little Renged Plover	RY	Ruddy Duck	YW	Yellow Wagtoil
۴	Fulinar	AF	Little Tern	RU	₽viff	Y.	Yellowhammer

If you are not submitting your data electronically using BBS-Online, please return your Field Recording Sheets to your Regional Organiser with your other BBS forms. If you would like to submit your results on BBS-Online, please inform your RO, then visit www.bto.org/bbs.

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## GDD Oral Hearing Response to Inspector's Questions

## APPENDIX 2 WINTER 2015 (JANUARY AND FEBRUARY)

The data from the January and February 2015 winter walkover surveys were collected as species counts and are enclosed as an Excel spreadsheet that give the numbers recorded along various sections of the Proposed Project.

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#### **BIRDS USING SITE**

SURVEY SECTION	DATE	B.	BF	BH	BT	BZ	CD	СН	CM	СТ	D.	DI	ET	FF	GC	GL	GO	GP	GT	GR	Н	нс	HG	HS	JD	K.	L.	LI	LT	M.	MA	MG	MP	MS	PH	PW	R.	RB	RE	RO	RP	S.	SD
The Grange - N3/M50 JCT	04/02/15	14		28	35			10	1	5		1			2	1	19		13			5	2		5	1			4	1	8	9		9			21						
N3/M50 JCT - Cappagh Rd	04/02/15	10			9	2				2	8						5		6			4		4	3	1			5	6		16	9				16	1	10	1			
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M2 - R108	03/02/15	63	7		23	3		12		5	12		1	12	1	1	6		2	2		7		2	4			65	7	2		22	13				11	17	55			164	
R108 - M1	03/02/15	16	3		13	3		3		7	6						4	10	5	1		13		2	2							4	34			1	24			23		2	
M1 - WWTW	30/01/15	18		7	3			1								2	6		5			1	2	4	2			50	3			4	240		2	11	7	2					
WWTW	30/01/15	10	2	22	2	3		4	32		1								1			7	40		14							14	15				4	6				1	
WWTW - R107	30/01/15	21	2		12	1	2	6		1	2			10			4		3	1		2		6	8					6		9	45				16	3	32			20	
R107 - Railway	30/01/15	28				1		4		2	3						72		6			7	2		7				2	3		11				1	10		11			27	
Railway - R106	30/01/15	6									2			2			1	·															2			·	3		8			4	

#### **BIRDS IN FLIGHT ONLY**

SG	SH	SN	ST	TS	WP	WR	Υ.	В.	BF	ВН	ВТ	BZ	Z   CH	1   CI	ИΙС	СТ   Г	D.   F	FG	C G	O GP	GT	GI	R   H	НС	HG	HS	JD	L.	LI	LT	M.	MG	MP	MS	PW	R.	RB	RE	RN	RO	S	SG	SH	SN	ST	TS	WP	WR	Y.
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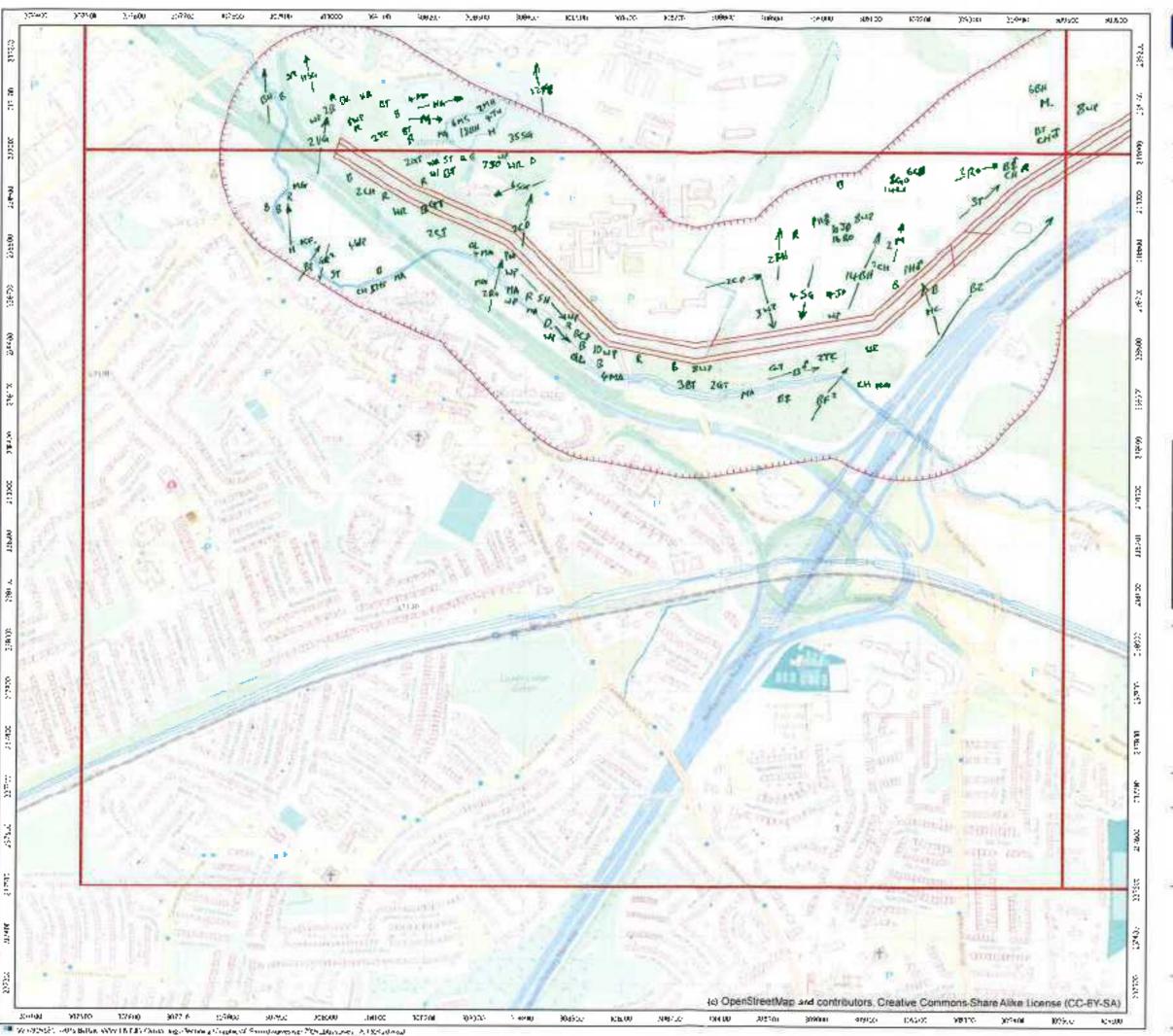
## GDD Oral Hearing Response to Inspector's Questions

## APPENDIX 3 WINTER 2015 (NOVEMBER)

The data from the November 2015 winter walkover surveys were mapped, and are enclosed below (along with the associated survey recording sheets).

M-44529433-1 4

	Vaa	We	Weather Sheet	- 7.	Wind Speed	D 86 G		Direction	Rain/Snow	,A01	Claud	Cloud Height	Visibility	
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& I Maps attached         Fight         Fight         Frost         Show         Notesie.g temperature           Wind         Wind         Rain         Cloud         Visibility         Frost         Show         Notesie.g temperature           3         S.U.         Coloud         Cloud         Visibility         Frost         Show         Notesie.g temperature           3         S.U.         Coloud         Cloud         Visibility         Frost         Show         Notesie.g temperature           4         S.U.         Coloud         Cloud	Finish Th		01:		VAhole C				2 20 20 20 20 20 20 20 20 20 20 20 20 20			Dolla range, e.g. V	VS- 5, not 5-5.	
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Surveyor: N. Veale

Date 16 11 7016

Start time 8:30

End time: 15:3a

"Please attach weather sheet

Notes:



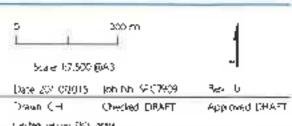
Legend

B85/VVWO survey boundary (250 m.) huffer, supplied 20140420, plus 250 m buffer of protruding access trank supplied 201509-7)

Greater Dublin Drainage

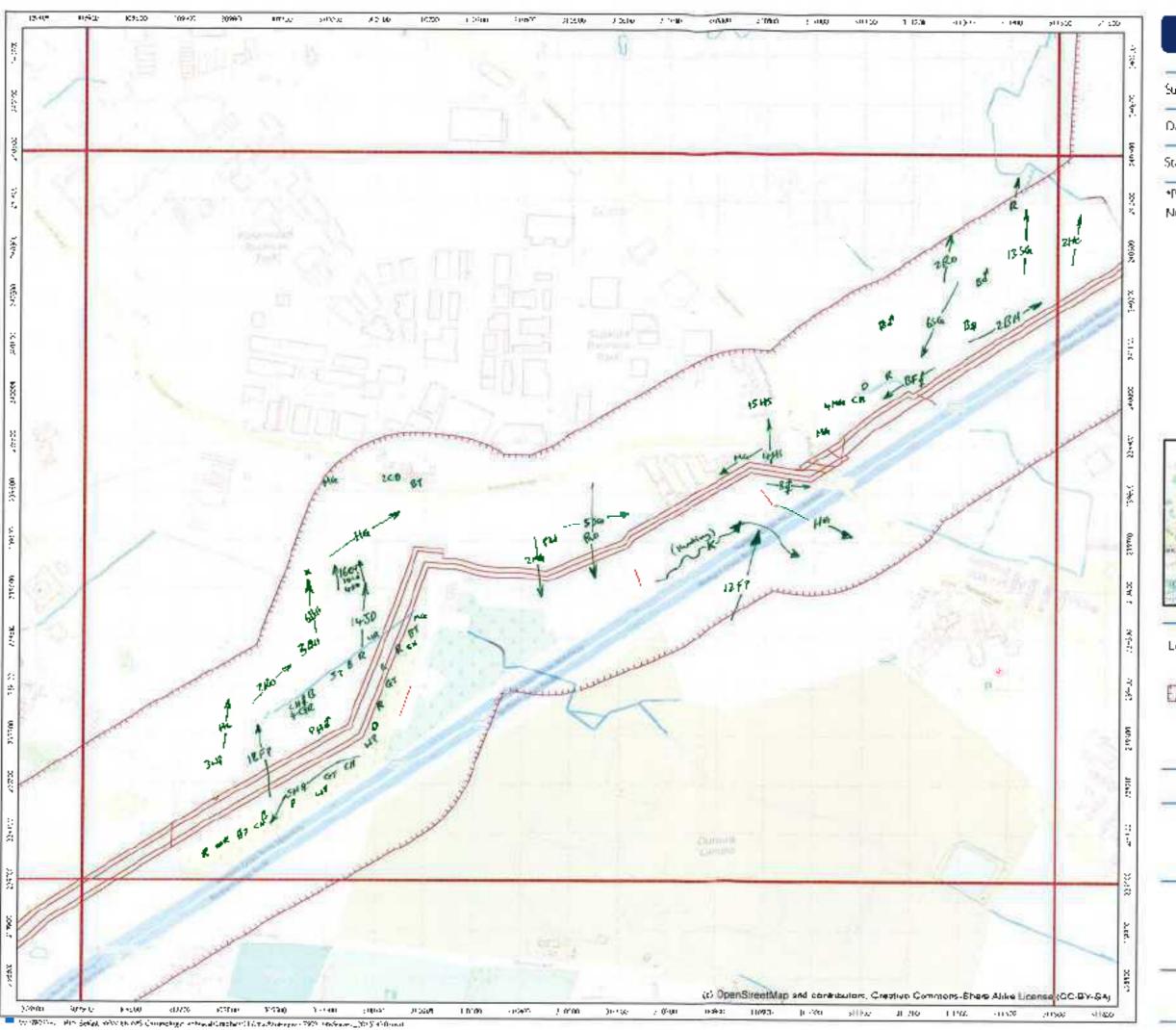
Breeding/winter bird survey

Page 17 of 18



t probability on the TMN, where t . Operating the transition of the t -factors T to show the Francisco Cittle to control of the Pio 25 M.

Sdal	3	Weather Sheet	ŧ	wind speed	paeds			Karacishow	ž	Cover	Coud Height	VISIDILAY
Site	0	005					z #	None Drizzle/Wisi		In eghths 8.5.33	Height of cloud above average	Poor (<1km) 0 Noderale 11-3km) 1
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Observer	Г	Nic Vede	80	Strong breaze	9 BZ86JC	2 to 2	3 2 3					
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Hr 517.45	4	5	ç	8/8		٦	1		30€			
Hr 6   3.445	4	2	7	8/8	_	7	1	ļ	Survey	Shopped	0:41 VA	いる、十つしによる
Hr 7\4\kg	8-9	25	Sup		Stoppe	hod	1		(rale	Such	2	. '52'
Hr 8	200				T				3		2	
Field Notes: Naps attached	ts: techen											
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Surveyor, N. Vente

Start time: 08'45

End time: |tp/, 6.5

\*Please attach weather sheet



Legard

BBS/WWO survey boundary (250 m. proving buffer, supplied 20140420, plus 350 m puffer of protruding access track supplied 20, 50917).

Greater Dublin Drainage

Breeding/winter bird survey

Page 15 of 18

200 m

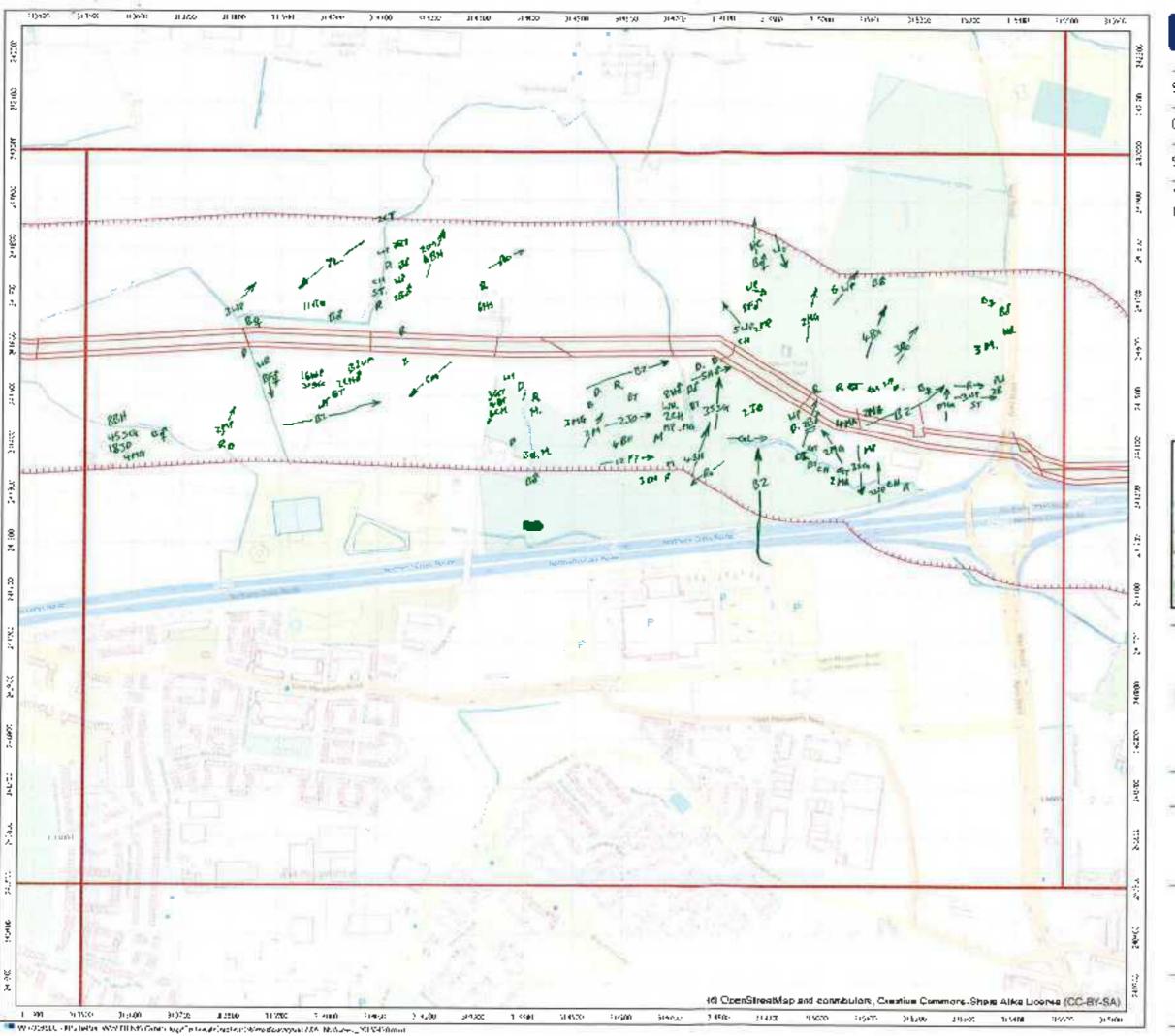
State 17,500 @43

Date 20/10/2015 | Job No. 56C 8/09

Charma CH Checked: DRAFT Approved: DRAFT

A comparable content of the property of the prope

RPS	ž	Weather Sheet	¥	Wind	Wind Speed Beautor	Moh	Direction	Rain/Snow	wa	Covit		Cloud Height	Visibility
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Date	7	20/11/2015	Ñ	Light breeze Gente breez	Light breeze 2 Genlle breeze 3	8-12 8-12	ᄪᄧ	Light Showers Heavy showers		0.00		<b>7</b> 2	Good (>Skm)
Survey	T)	Uite 1	0	Mort breeze	Mort breeze 4 Fresh breeze 5	13-18	s SW	Lying Snow	1	Frost	T	<150m 0 150-500m 1	
Observer	2	N. Vede		Strong	Strong breeze 6	25-31	W.	A LI		_	_	>500ni 2	
Start Time		8.00		Fresh spile	4	96.00	t r	on sade		Ground	· - c	Please to as accive subsider details, e-	Pease te as accurate as possible, with vesible details, enferno only coefficience.
Finish Time		N. 15		Whole pale	o eeo					180	•	not a range, e.g. WS - 5, not 5-5. Use notes for extra into	VS - 5. nd 5-6.
Sheet 1/	&[ ]	] Maps attached	ched	Humcane	e e	2 73+		5				Eg. WS - 5, gusting 6 (in nates).	ng 6 (in nates).
Weather	Wind	Wind	Rain	Cloud	Good	Visibility	Frost	Snaw	Notes(e	Notes(e.g. temperature,	rature	70	
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Hr 29136		3	0	8/4	7	بہ	1	[					
Hr 310.2	ė	כ	0	812	7	2	\	ſ					
W4(1.00		3	٥	818	7	رع	1	1					
Hr 5 12:09	بو	7	0	8/8	7	7	1						
Hr 6 (% co	4	77	M	8/8	+			ļ					
Hr 7 Webs		Nu	М	8/8	- 1	-	1	-	"Gale	مهرو (	ST. STE	FE SUMMY	Stapped at 14.15
H' 8												V	
Field Notes: Maps attached	; eched												
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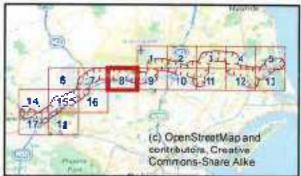
## RE

Surveyor. N. Veau

Date 20/11/2015

Start time: 81.00 Enc time: 14:15

"Please attach weather sheet Notes



Legend

BBS/WWO survey boundary (250 m buffer, supplied 20: 40420, plus 750 m buffer of protruding access track supplied 20150917)

Greater Dublin Orainage

Breeding/winter bird survey.

Page 8 of 18

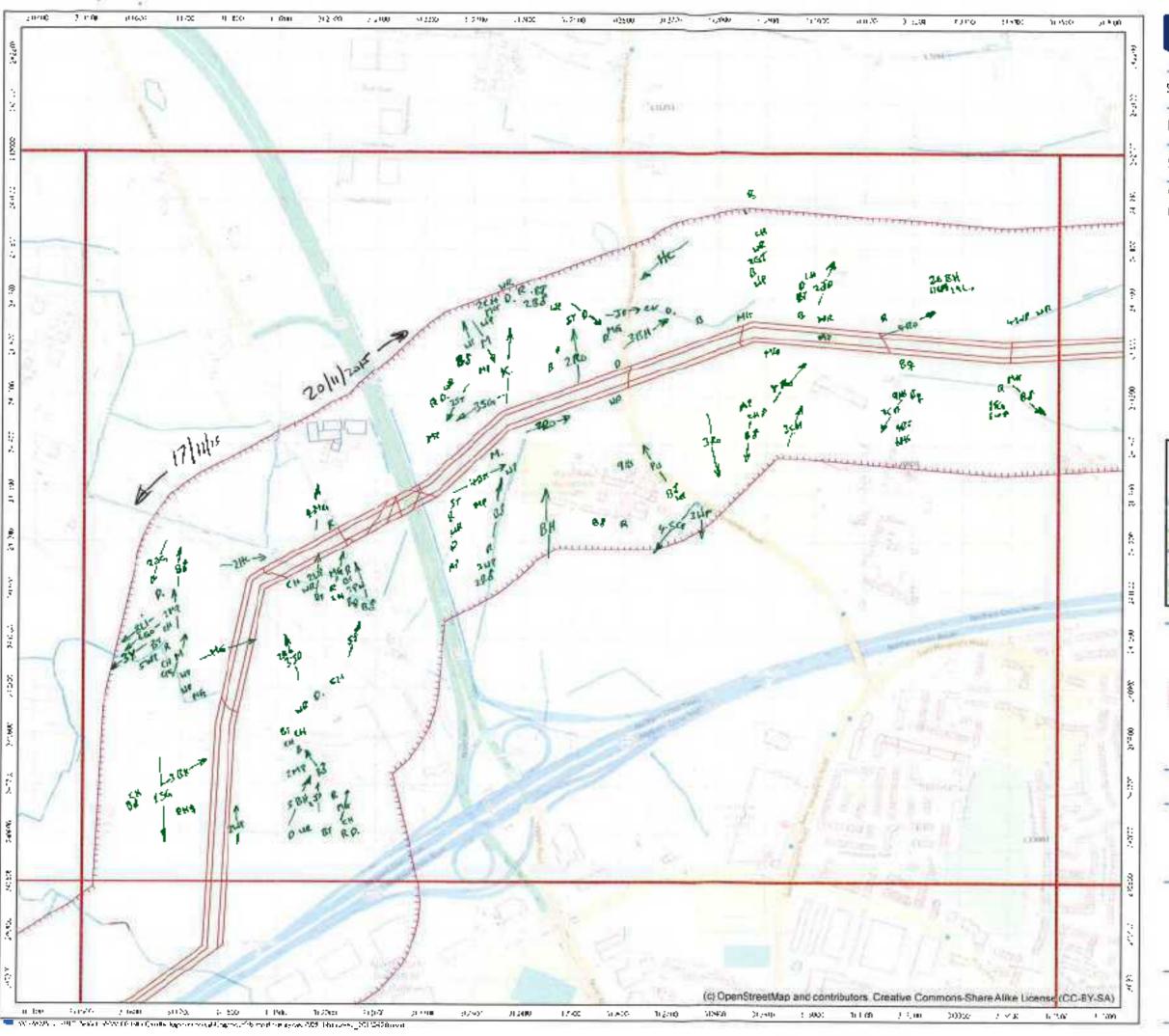
C 250 m

Scale: c7,500 (0A3

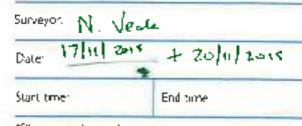
Oate 201:00015 | Job No: 5007907 | Rev. h

Crawn: CH Checket DRAFT | Approved DRAFT

Institutional Carl 1901 MARIA 2. ComSkin-Physics Administration Reproducts from the Ordinarda Review Collection by Prompting of the Consumers of Lease No. 100 No.

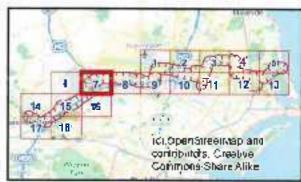






"Please attach weather erzet

Notes:



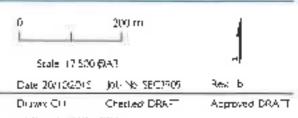
#### Legend

BBS/WWO survey boundary (250 m buffer, supplied 20140420, plus 250 m buffer of protruding access track supplied 2015(917)

#### Greater Dublin Dramage

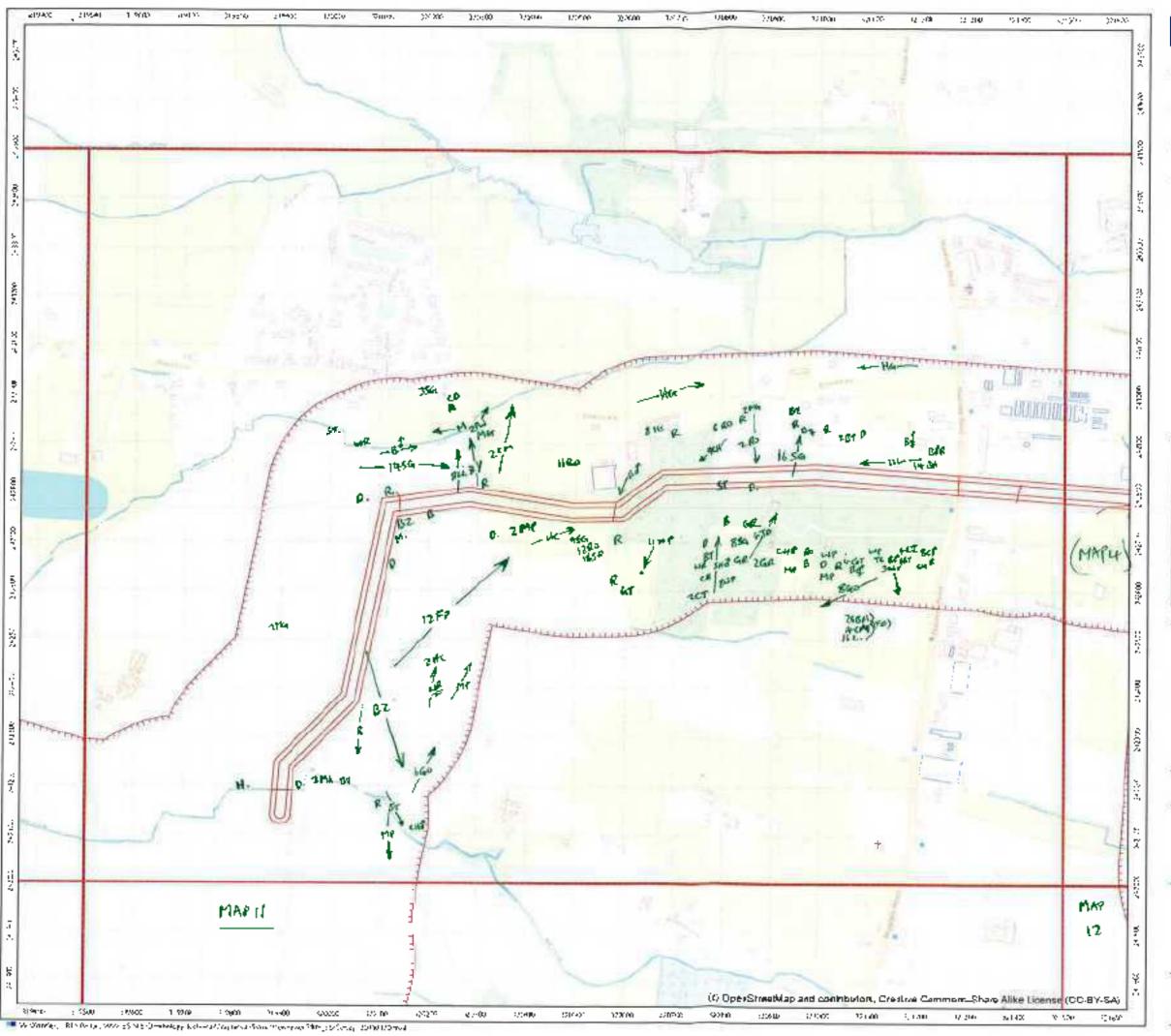
Breeding/winter bird survey

Page 7 of 18



ech Piggers) - 45 B151, 2003 \* Openition (Copin activity) is Report - estimate the forebasist basics, Charles Un-compact of the Community in the 2 May 11 Hz

RPS	W	Weather Sheet	¥	Wind Speed	Speed	HOM	Direction	Rain/Show	No.	Cloud	Cloud Height	_
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Survey	7	۲	0.1	Mod breeze Fresh breeze	\$ <del>2880</del>	13-18	9 % S	Lving Snow	1	Frost	150-500m 1	
Observer	_	N.Vecto		Strong preeze	Dreeze 6	25-31	<b>₹</b>			1	>300m 2	_
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Finish Time	H	157,20		Whole gale		55-63 55-63					_	. W
Sheet 1/		] Maps attached	Shed	Huricane	12						E.g. WS - 5, gushing 6 (in nates).	9
Weather	Wind	Wind	Rain	Cloud	Cloud	Visibility	Frost	Snow	Notes(e.g	Notes(e.g. temperature)	re)	
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Hr 24.20	4	3	-	2/8	_		I		706			
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Hr 4 H720	4	2	بہ	XIX	-	~		ļ	308			
Hr 5 pa	÷	3	_	818	_		1		ر د			
Hr 6 12/34	7	3	_	8/8	,	~	}	{	> a &			
4r.7 l⊷:tø	£	3	7	8/8	_	_		\ \				
Fr.8												
Field Notes: Maps affached	D Ched											
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Surveyor: N. Veale End fine: \5'20

\*Please attach weather sheet

Notes.



#### Legend

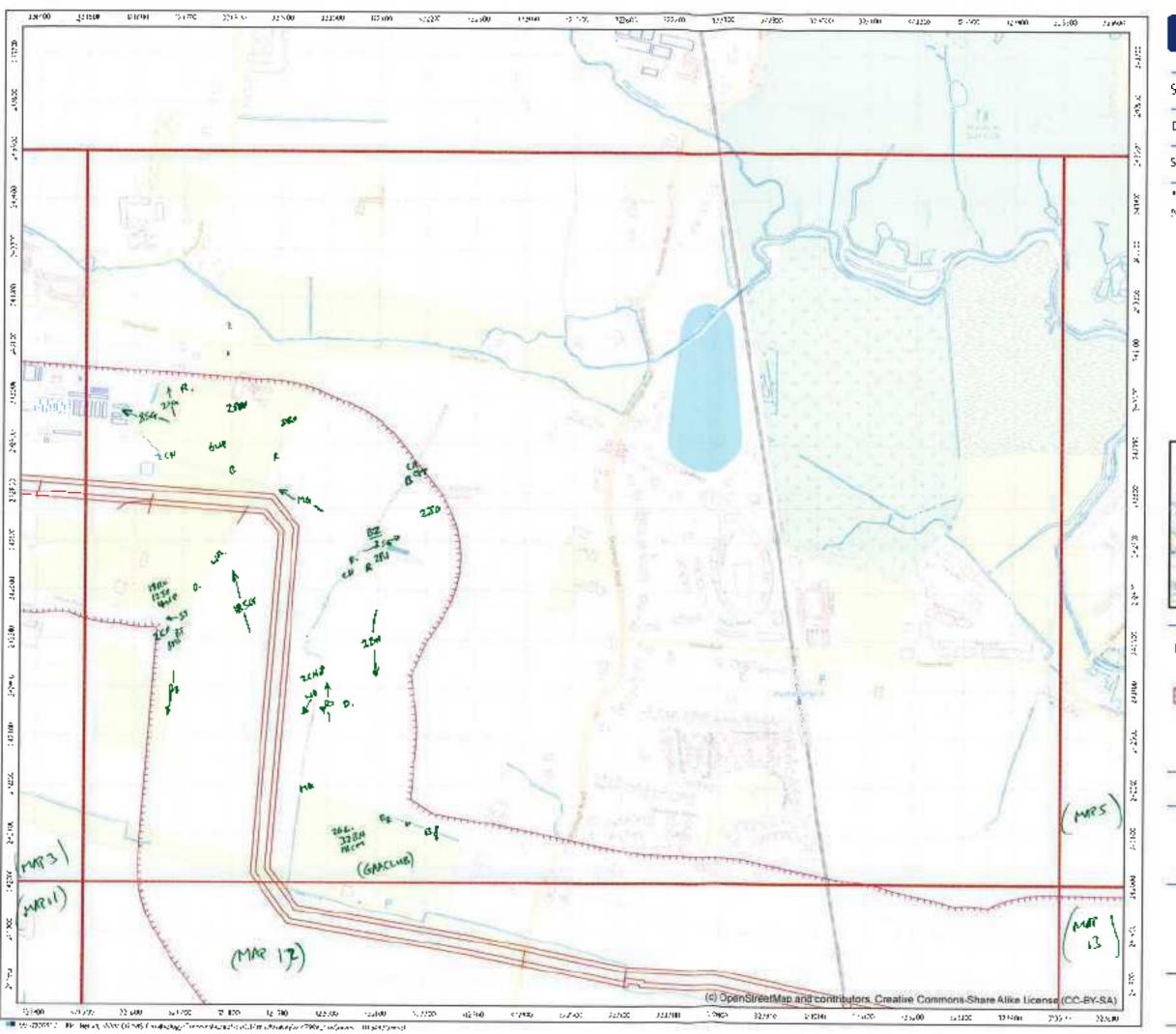
BB5/WWO survey boundary (250 m. buffer, supplied 20140420, plus 750 mbuffer of protruding access track supplied 20150917).

Greater Dublin Drainage

Breeding/winter bird survey

Page 3 of 18

300 m Scale 17 900 @A3 Date 30/10/2015 | Job No. SEC7909 Drawn CL+ Cherkert DRAFT Approved DRAFT ico Prescovario, di 11 del 1966. P. Otsoftiger Pagnicialmentos, Regionatore bassido Medianes sutura Differencia de Egiptomento di 15 di elemento il esse No. 150 H





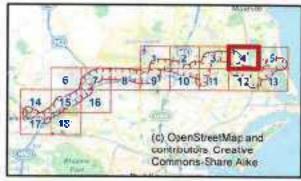
Surveyor N. Veals

Date. 24 | 1 | 7515

Start time: 8:20 | End time: 15.20

"Please attach weigher shoet

Notes:



Legend

B8\$AWWO survey boundary (750 m buffer, supplied 20140420, plus 250 m buffer of protruding access track supplied 20150917;

Greater Dublin Drainage

Breeding/winter bird survey

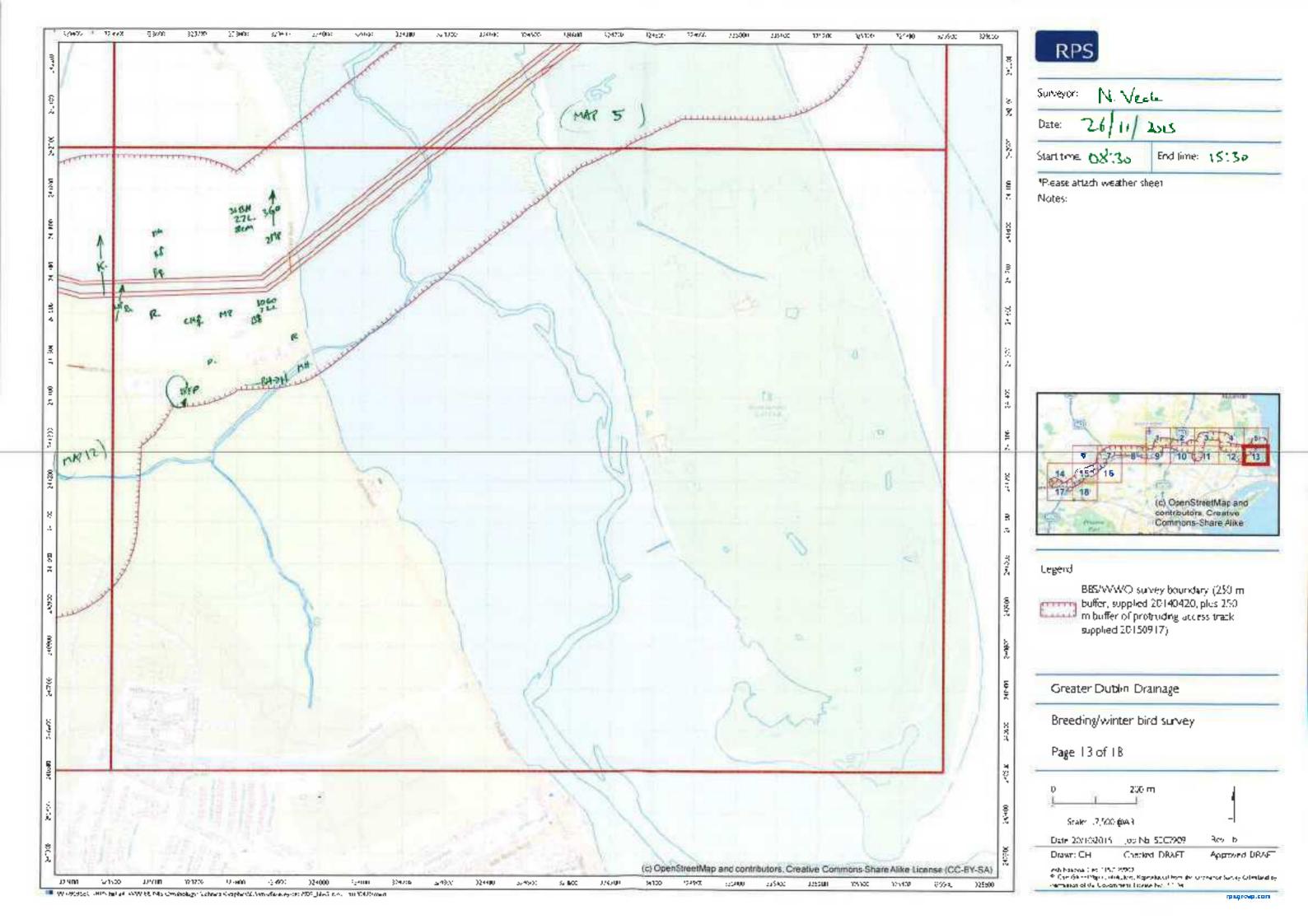
Page 4 of 18

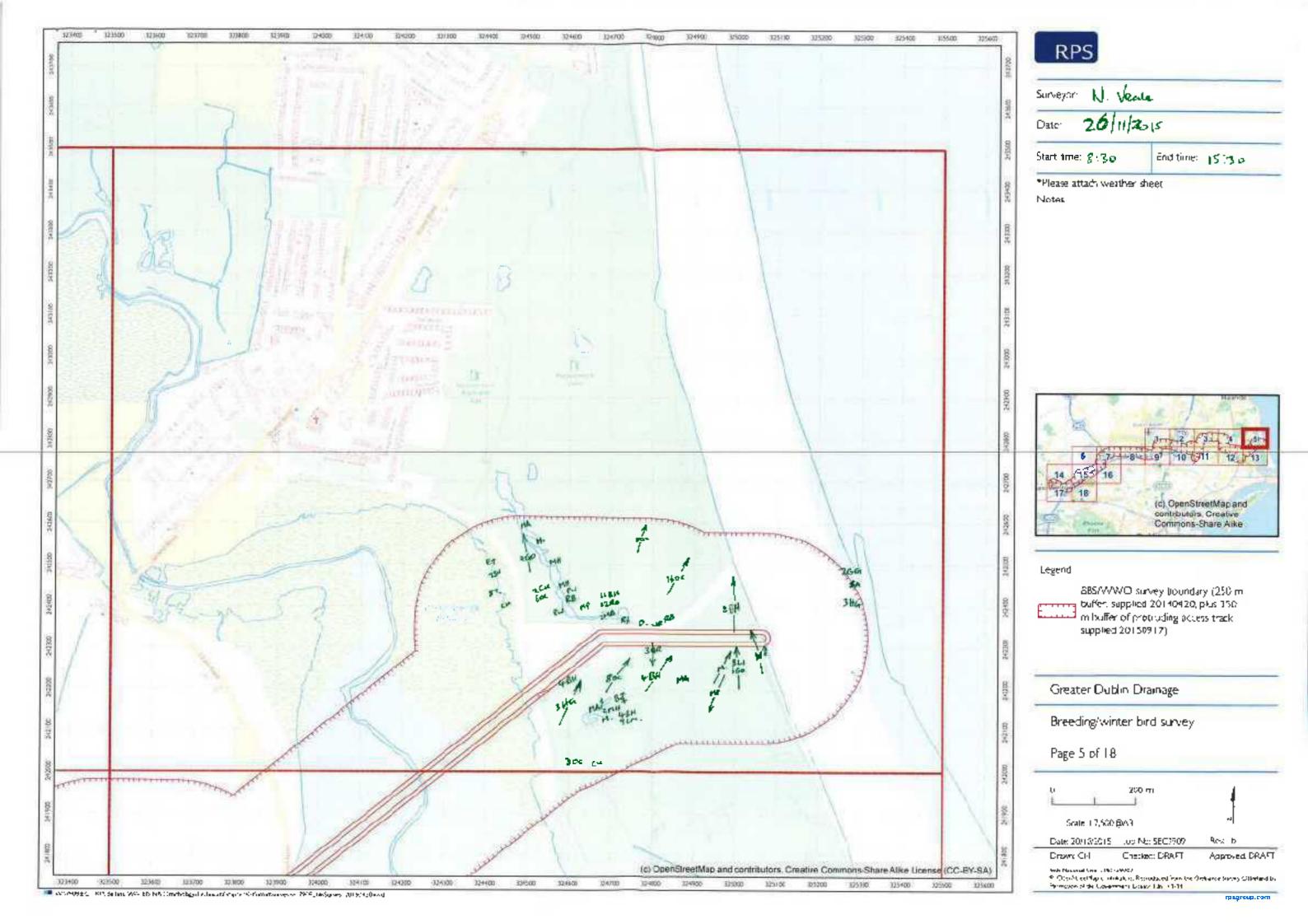
Scale 17,500 (BA3

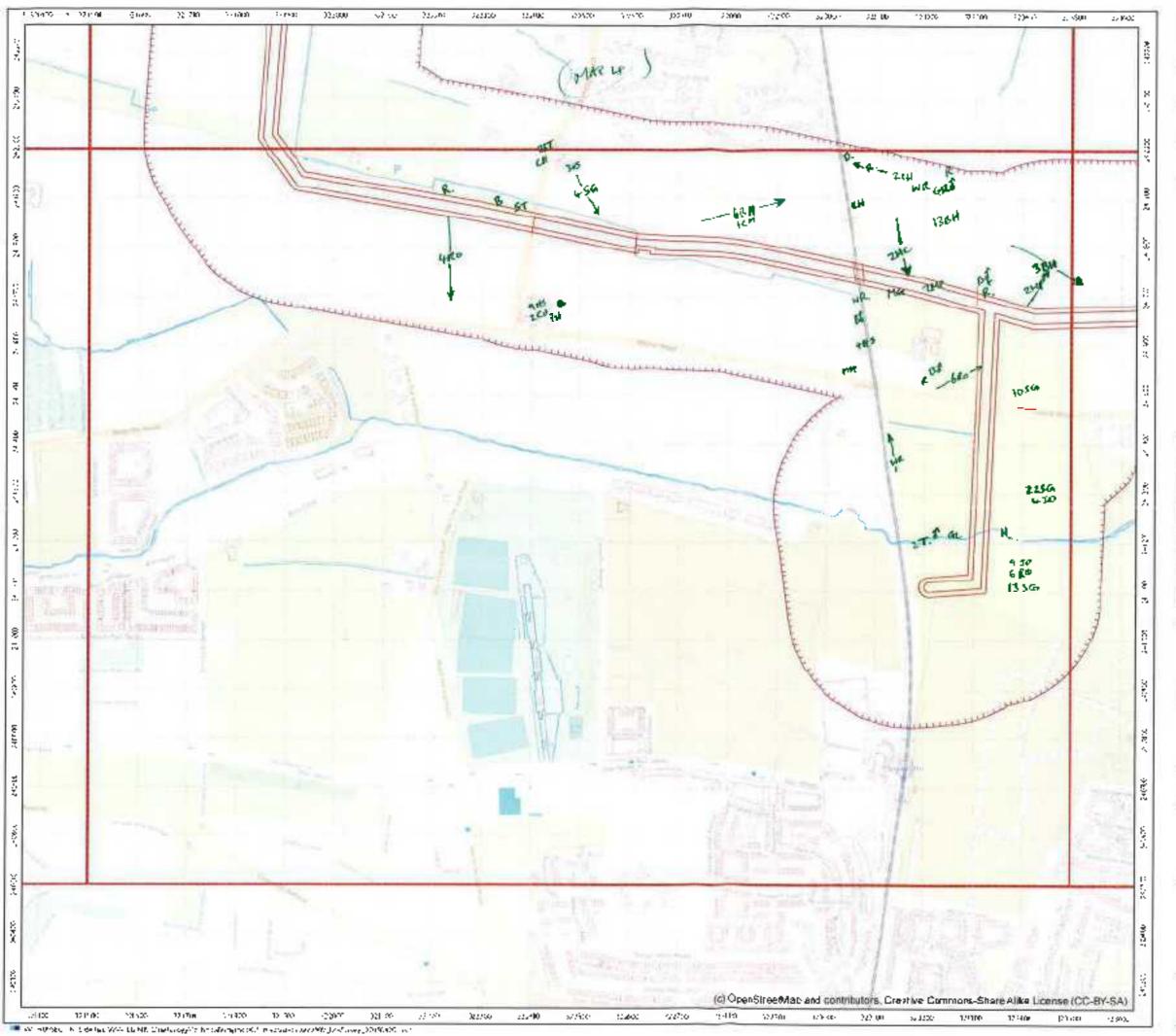
Dann 20/10/2015 Job No SEC7916 Reviol

Drawn CH Checked, DRAFT Approved DRAFT residues agreed, they are a Second December of Cycle 2015 Second Second Second December of Cycle 2015 Second Second Second Second December of Cycle 2015 Second Seco

RPS	3	Weather Sheet		Wind Speed	Speed	10	Direction	Rainisnow	MON	Cower	_	Cloud Height	Visibility
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Survey.		1. Ate W.	0.	Mod. preeze	9eze 4	13-18	أما	Heavy rain	,	$\rightarrow$	Ť	о шоу₁>	
Observer		N. Verle		Stlong breaze	Strong breaze B	19:24 25:31	* * i	Lying Show		_		150-500m 1 >500m 2	
Start Time	245	8:30		Frach gale		30.46	À.	On side	<b>-</b>	_	<u>а</u>	Pleuse be ac accurate as pagetble, with	ale as passible, wi
Finish Time		15:30		Whole gale				High ground		) All Cago		wealther betails, entering only one aguie. not a range, e.g. WS ·5, not 5-6.	lering only one ligu S - 5, not 5-6.
Sheet 1/	& j	Maps attached	ched	Humcane		73+					ш	Cs. WS -5, gusting 6 (in notes).	mio, 16 (in notea).
Weather	Wind speed	Wind direction	Rain	Cloud	Cloud	Visibility	Frosí	Snow	Notes(e.	Notes(e.g. lemperature)	lure		
Hr 1 8%	2	3		8/9	-	-	]	1	10%	01,2218			
Hr 2 (15)	2	3	-	2/18	-	-	1	į	10°4	Dr. 226			
Hr 3 [636	3	3	0	87/3	_	-	1	{	1200				
Hr 4 U.So	7	γ	-	81	-	-	T	1	124	DA 52 le			
Hr 512'30	3	S		8/8		_	1	(	120	Drieze			
Hr 8 (3/35	3	5.4	2	878		_	!			CAIN	5.18	5 House25	
Hr 714:35	ς^	SH	2	8/8	_		]			1 5	1.5	Cain	
HS						2.6						1	
Pield Notes: Meps attached	ached												
For office use only, NG- Initial <u>AND</u> date <u>ALL</u> Noves	e only. NS 119 ALL	. Logged		Databa	Database Enlered		Database Validated	/alidated		GIS Entered		GIS Validated	aled







RE

Surveyor Nick Vecta

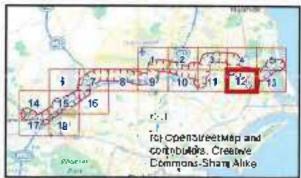
Pate. 26 11 2415

Start time: 08 30

Frid time: 15130

'Please attach weather sheet

Notes



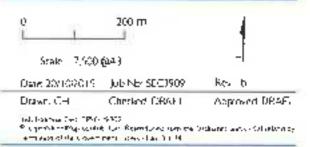
Legend

BBSAWWO survey boundary (250 m buffer, supplied 20140420, plux 350 m buffer of protruding access track supplied 20150917)

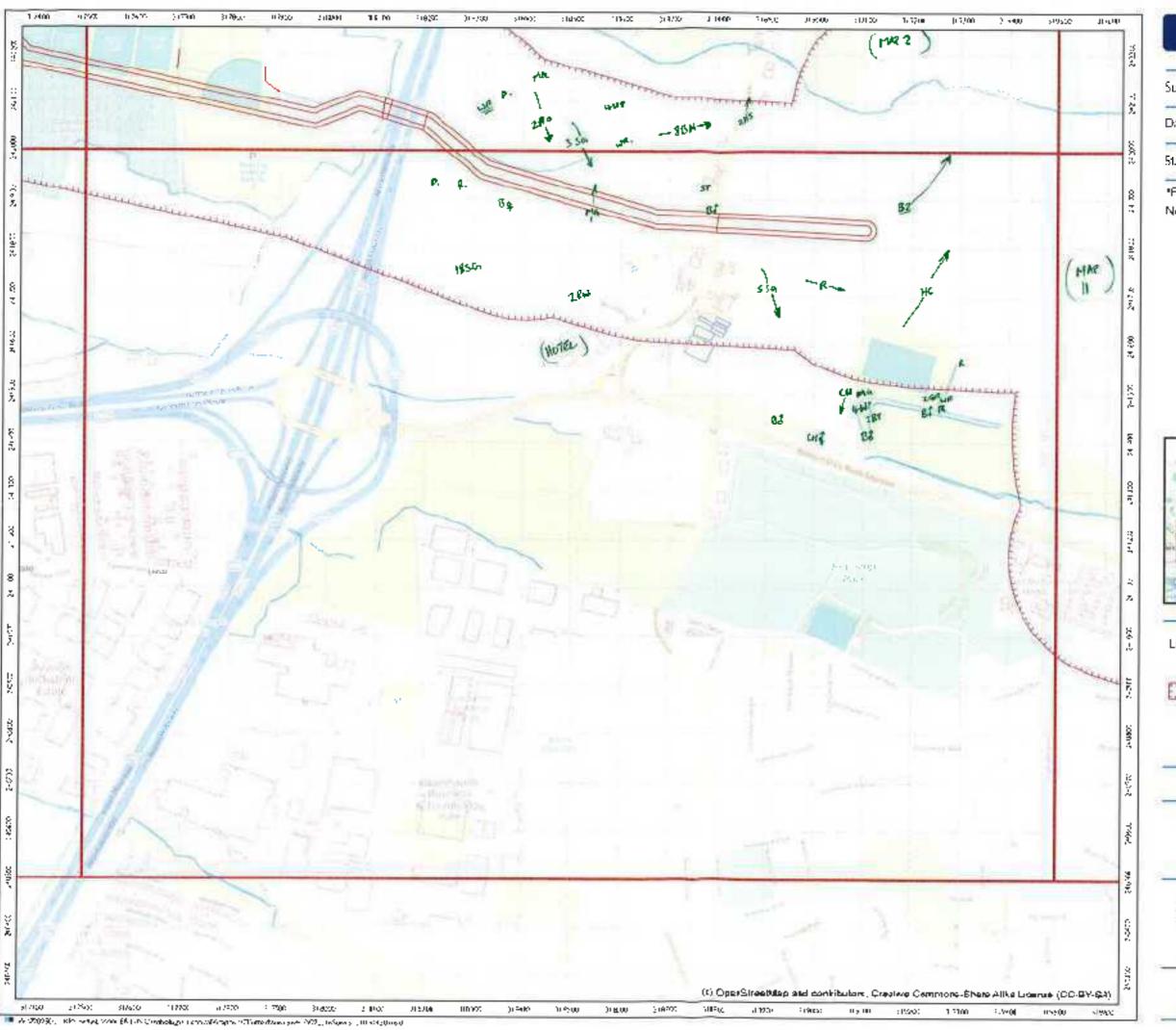
Greater Dublin Drainage

Breeding/winter bird survey

Page 12 of 18



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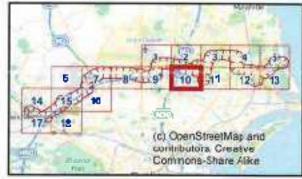
Surveyor Nick Veale

Date: 27/11/2015 \$26/11/2015

Start time \$30 End time 14:50

\*Please attach weather sheet

Notes: (55 Wared on MAR )



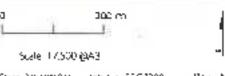
Legend

BBS/VVWO survey boundary (250 m. buffer, supplied 20140470, blus 250 rn buffer of protruding access track supplied 20150917)

Greater Dublin Drainage

Breeding/winter bird survey.

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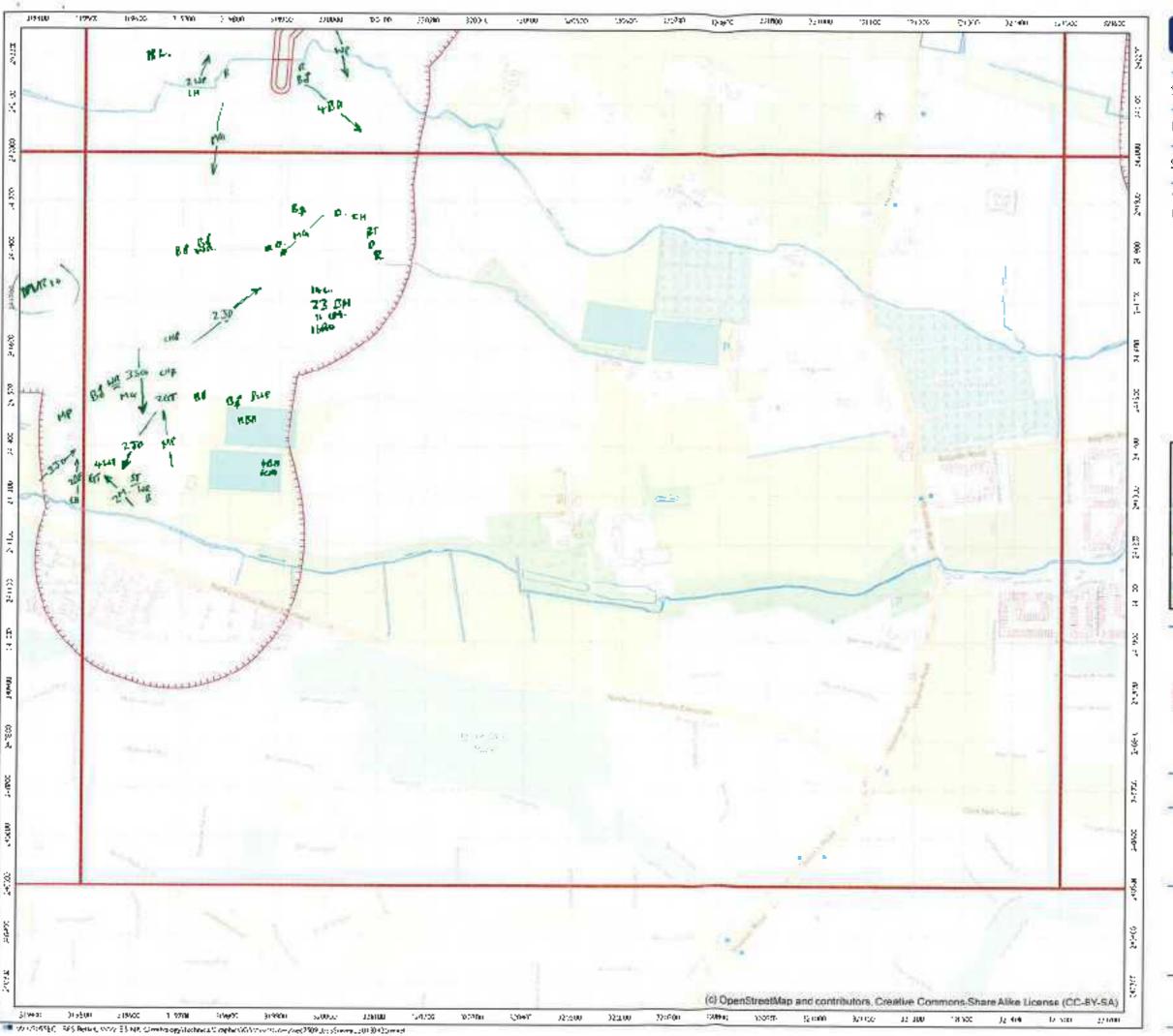
Date 20/10/2015 | Job No. 52/07909 Drawn CH

Checked DRAFT Approved DRAFT

Annual Section (Co.) proc posts:

P. Openbreachip constitutes, Majordae rillions the Orondae's Natury Certal and a Permanent of the Co. and the Co. an

₹PS	Ž	Weather Sheet	aet	Badde Dille	ipbed Scauked	5	Онесион	Harring		Cover	Cloud Height	VISIOIIIIY
Site	<b>(3)</b>	6.66 Section 72	W	Calm Light Sir Light breeze Gantle breeze	96.29 7 100.620 3		호흡마였	None Drizzle/Mist Light showers Heavy showers	st †	In eighthe e.g. 3/8	Height of doud above average height of viewshed	Poor (<) km) 0 Moderan (1-3km) 1 Godd (>3km) 2
Survey		On which		Fresh breeze Browg breeze	6928 F	19.50 19.50 19.50	. Ž. s	Lyding Snow		Frost	4150-300m 1 50-300m 2 5500m 2	
Start Time			4	Mod gale Fresh gale		85.38 84.48	MN.	See See	0-	None D Ground 1	_	Pease be as accurate as pageble, with
Finish Time		NF. 50		White gale				High ground		All dey		ingainer denairs, brushling only one ngure, not a range, e.g., WS - 5, not 5-6. Use notes for extre win
Sheet 1/	. T	Maps attached	ched	Storm Intericane	# 15 T	74.5					Eg. WS - 5, gwalvng 6 [in notes].	ng & [in notes].
Weather	Wind	Wind	Rain	Cloud	Cloud	Visibility	Frost	Snow	Notes/e.g	Notes(e.g. temperature)	rre)	
Hr 18:30	-47	Š	0	8/8	2	2						
Hr 24:35		25	0	8/2	2	ų						
Hr 3 1635	72	Sti	-	8/8	, m	-						
Hr 4 [735	۸۷	3	-	3/8	_	-			Garsher	you spinion	1 2 2 Stown	Cartheau Button
Hr 5 🛭 35	**	N. 50	4200	Hier	Ļ	20 m						
Hr 613:36	4	3	2	2/8	_	_			Surkey	Cost.	ch 1345 65	1 Lind Respon
바 71년:30	W	77	2	8/8	_	-				Strong	Lá	Freeze las ( de de
Hr8												
Field Notes: Maps attached	tached										-	
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Surveyor: N. Veel

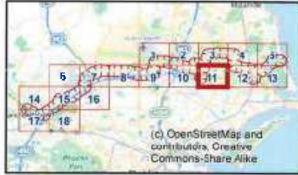
Date. 27/11 ZaxS

Start time. 8:30 End time: 14:54

\*Please attach weather sheet

Notes

Continues from MAR 10



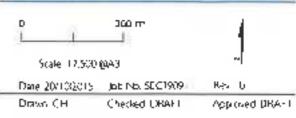
Legend

6BS/WWO survey boundary (250 m buffer, supplied 20740420, plus 150 m buffer of protruding access track supplied 20150917)

Greater Dublin Drainage

Breeding/winter bird survey

Page 11 of 18



Market Agents and Company (1990) (1990)

6. Open an extrapolation of the Proposition of the Company Server Offsetters for the transport of the Company (1990) (1990



Surveyor N. Vecle

Date: 2-7 11 2015

Start time 8:30

End time: 144,50

Flease attach weather sheet

Notes:



Legend

BB5/WWO survey boundary (250 m. buffer, supplied 201 40420, plus 250 m buffer of protruding access trark supplied 20150917)

Greater Dublin Drainage

Breeding/winter bird survey

Page | of 18

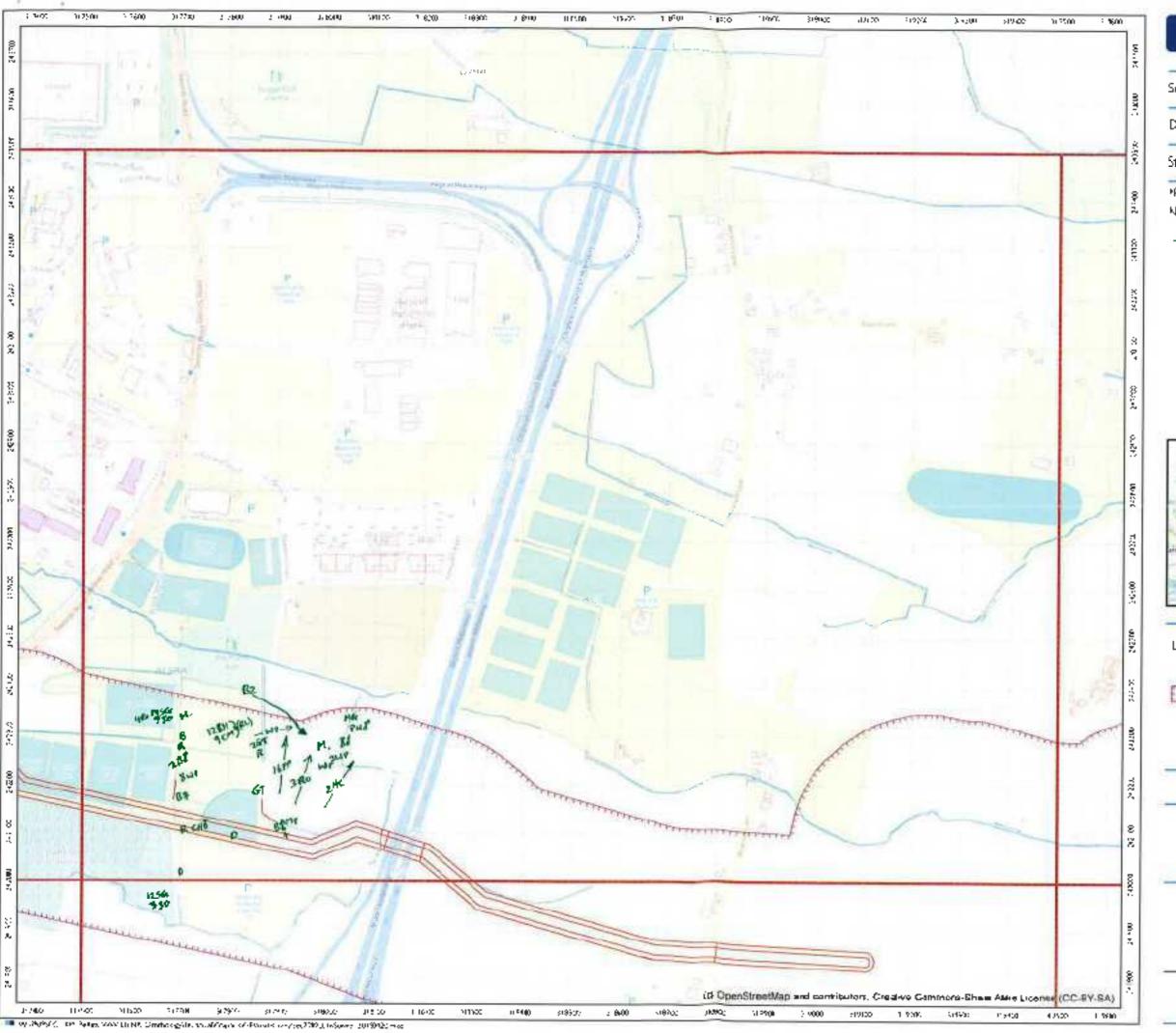
200 m

Scale: 1:7,500 \$9A3

Date 20/102015 | Kib No SEC7909 Approved DRAFT Drawn CH Checked DRAFT

Figh Nimona Dec 1951, 2993.

7. Openful—emity of setting in Regulate of Statistic Close on Service Of Albert to Periodical of the London wind Except Fig. 30,04.





Surveyor Nick Veda

Start time: 08 30

End time 14:50

Please attach weigher sheet



#### Legend

BBS/WWO survey boundary (250 m. buffer, supplied 20140420 plus 150 m buffer of protrucing access track supplied 20150917)

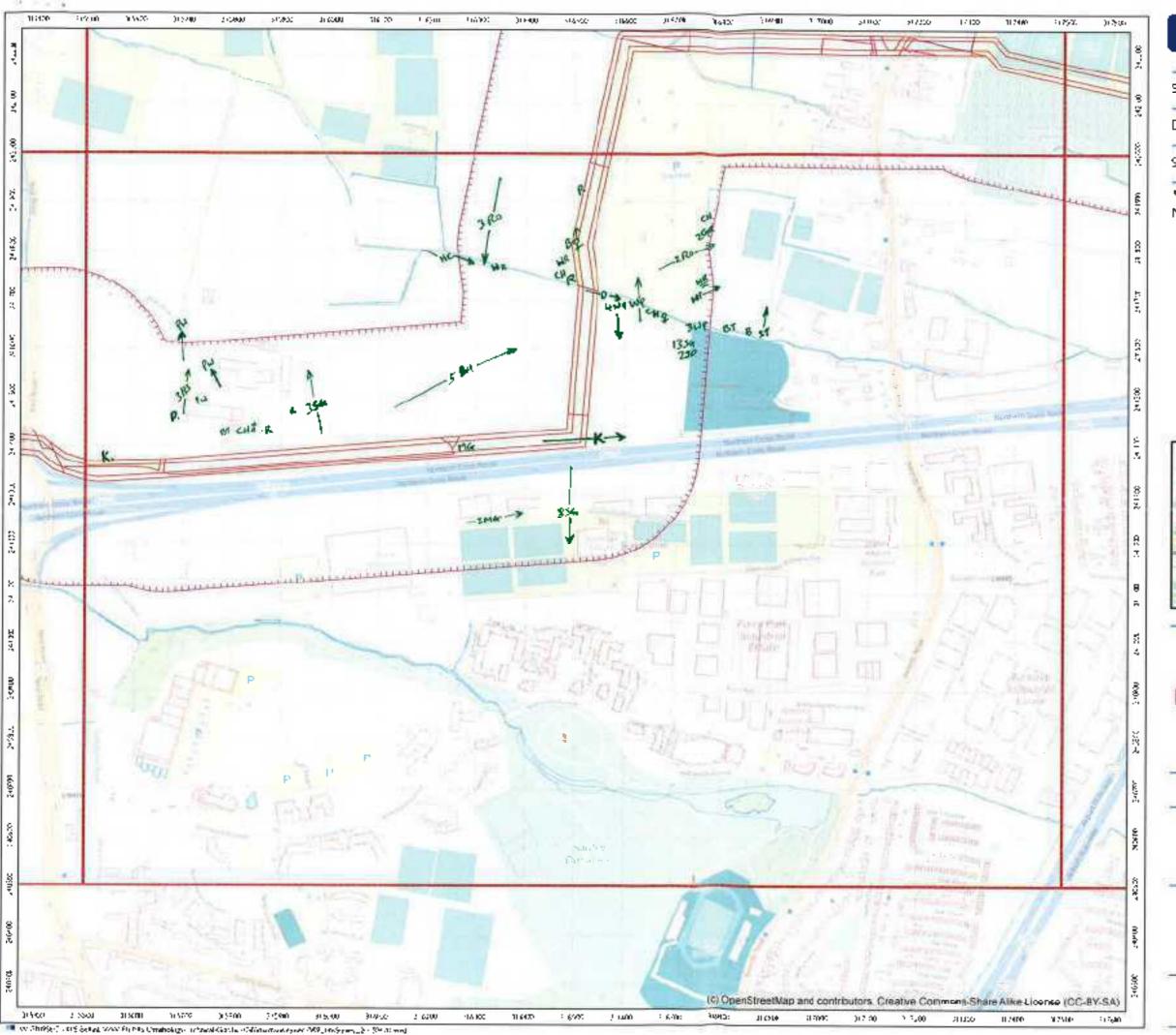
Greater Dublin Drainage

Breeding/winter bird survey

Page 2 of 18

 $200 \, \mathrm{m}$ Scale 17,900 (6A.) Date 20/10/2015 | Ibb No 50/03/09 Drawns CH Checked CRAFT Approved DRAFT

Fig. Section 19 of 19 of



Sinveyor Nick Veals

Date 27 11 2015

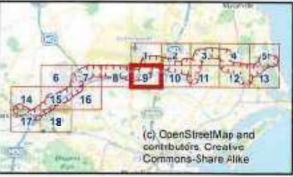
Start time: 08 3%

End time. 14 30

Please attach weather sheet

Notes:

MARS 1,2, +9



Legerd

BBS/WWO survey boundary (250 m bulker, supplied 20: 40420, plus 250 m buffer of protruding access track supplied 20150917)

Greater Dublin Drainage

Breeding/winter bird survey

Page 9 of 18

0 200 m

Snale 17,500 (9A3)

Date 20/102015 Job No 5807909 Res: b

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not Personal Carl Billion (1900). P. Oper Televicible Communities, Pepperson 2 to in the Coderand Survey Office and In-Formation of the Communities I community.

# GDD Oral Hearing Response to Inspector's Questions

## APPENDIX 4 WINTER 2017 (MARCH)

The data from the March 2017 winter walkover surveys were mapped, and are enclosed below (along with the associated survey recording sheets).

M-44529433-1 5

Wind Speed Cloud RPS, Weather Sheet Direction **RainSnow** Cloud Height Visibility Cover Demotor: Mph Height of cloud Calm Site اد None 600 а In old the Poor (clien) ø Lightair above average 1-3 NE Drizzie/Mici eg. 3/9 Moderate (1-39m) height of Date L4thtbreeze 4.7 Light showers 0/03/ 2 2017 Good (>3km) 2 viewshed Gertile breeze 3 6-12 SE Heavy showers 3 Mod. breeze Survey 13:15 5 W. J. W. O. Heavy rain <150m Frésh breeze 19-24 SW Lying Snow Frost 150-500m Observer Strong brooze & Verle 24-31 w >500m Mod. gate 32-38 NW None a None a. Start Time 0715 Fresh gale 38-46 Please be as accurate as possible, with On side Ground Strong gale weather details, entering only one ligure. В 47-54 High ground 2 Finish Time All day 15:00 Whole gate not a range, e.g. WS - 5, not 5-6. Use need for aking rep. 10 55-63 B**407**111 11 547Z Sheet 1/ & [ ] Maps attached E.g. WS - 5, gusting 6 (in notes). Hurricana 12 734 Weather Wind Wind Rain Cloud Cloud Visibility Frost Snow Notes(e.g. temperature) speed direction cover height Hr 17:15 6/8 56 2 Ç) ζ 006 Hr 28:15 SE 8/8 7 40 7 drizzla higher Hr 39715 1/8 Sin #1 Z 2 light dazzle Hr 4 10:45 8/8 SE O 2 ι 120 6 Hr 5 11.15 56 1/2 0 2 2 120 Hr 612:15 SE σ 7/3 Z 7 Hr 71715 118 58 Ð Z 2 1406 0 Hr 814-15 SIE 218 7 Field Notes: Maps allached

4.7

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What Speed Cloud Direction Rain/Snow RPS Weather Sheet Cloud Height Visibility Cover Beauton Mon Calm Height of cloud. Site 600 >1 N None 0 la eleptite Poor (c1km) q above average UgM air 13 NE DrizzMMstri7C eg. 3/8 Woderale (1-3km) 1 Light breaze height of Date 47 27/03/2017 Light showers 2 Good (-3km) 2 Gentle breeze vervshed SE. 6-12 Heavy showers 3 Mod breaze Survey 13-18 لئ، الق 40 Heavy rain <150m Freshtwaaza SW 19-24 Lying Snow Front 150-540m Observer NICK Sworty breaze 6 Veal 25-91 W >500m Mod. gale 32-38 NW. None 0 Nene Start Time 10100 Fresh gale Please be as accurate as possible, with 39-46 On site Ground Strong gale weather details, entering only one figure. 9 47-54 High ground 2 All day Finish Time 10115 Whole gale not a range, e.g. WS - 5, not 5-5. Use notes for extra info. 10 55-63 Storm 11 86-72 Sheet 1/ & [ ] Waps attached E.g. WS - 5, queting 6 [in hites]. Hutricane 12 7**3**+ Weather Wind Wind Cloud Rain Visibility Cloud Frost Snow Notes(e.g. remperature) speed direction cover height Hr 110:35 ENG 2 4/8 O 1000 Hr 211:01 E 3/8 O Hr 312:45 3/8 5 7  $\mathcal{O}$ 7 Hr 413:50 0 3/8 9 7 1200 Hr 5143 et wife 218 2 J. O Hr 615:55 2 NE 4/8 0 2 1244 Hr 716 00 2 NE 0 4/8 113C Hr B Field Notes: Maps allached For office use only, NB-Logged Database Entered Database Validated GIS Entered Initial AND date ALL **GIS Validated** buxes.

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Cleud Cloud Height Rain/Snow Ylaibility Wind Speed Direction Weather Sheet COVER RPS Beautort Mph. Height of cloud Poor (<1km). lin eigmhe Calhi None 0 >1 above average Site 600 o.g. 348 Vederate (1-3km) Light air. NE Drizzle/Mist 1 1-3 heigh) of Light breeze Light showers Good (s3km) 4.7 newshed Date 23 /03/2017 SE Heavy showers Gentle breeze 3 8:12 ₹150km Heavy Ion û Mod. treaser 13:18 130 Survey Winter Lying Show 150-500m Fresh breeze 19-24 SW. Frost Strang breeze 25.31 w >500m N. Vede Observer Mod. gale 32-38 NW. None None: Please be as accurate as possible, with Fresh pale Ground Start Time 11:15 39-46 On aite weather details, entering only one tigure, Allday Stronggele 4754 Grung dg/H not a range, 4.g. WS - 5, not 5-6. Finish Time 18:00 Whole gale 10 55-63 Use notes for extra into. Slorm 11 6472 E.g. WS - 5. gusting 6 [in notes]. Sheet 1/ & [ ] Maps attached Hurncane 12 7\$⊦ Wind Ram Cloud Visibility Snow Notes (e.g. temperature) Weather Wind Claud Frost: direction height speed cover 2 2 8/8 800 Hr 1 1:45 ENR z Hr 21215 3 2 ENE 0 4 H 1000 Hr 313115 0 ŕ 2 HE 4 MIS 7/8 > 10 ° C Nic Hr 56.15 0 2 щ E Hr 6 P. 12 7/8 0 7 11° C E 0/8 Hr 717/15 0 4 7 0/8 Hr 8 E 7  $f_0$ Field Notes: Maps attached GIS Validated For office use only, NB-**GIS Entered** Database Entered Dalabase Validated Logged Infilial AND date ALL bokes

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Wind Speed Oirection Cloud RPS Weather Sheet Rain/Snow Cloud Height Visibility Cover Beautin Mph Calm Site (50D Height of cloud ъ1 N None D In eigh@a Poor (allow) 0 Light pir above sverage 1-3 N Original Miller 1 o.g. 349 Modewate (1-0km) Date height of Light breeze 47 Е Light thowers 2 22/03/2017 Good (53km) Gentle breeze 3 2 viewelled 8-12 SE Heavy Bhowers 3 Mod. breeze Survey الله الله 13-18 S W ires Heavy rain <150m ø Fresh breeze 19-24 5W Lying Snow Frant 150-540m Observer Shore breate Ve alum 26-31 w >500m Mod.gale 32-38 NW None Start Time Ð None 06:20 Fresh pale 39-46 Please be as accurate as possible, with On eile Ground 1 Sirong gale 47-54 weather details, entering only one figure, High ground Finish Time Al day 14. 20 Whole gale 16 not a range, e.g. WS - 5, not 5-6. Use notes for extra info. 55-63 Shorm 41 54-72 Sheet 1/ & [ ] Maps attached Hurtkane E.g. WS - 5, gusting 6 [in notes]. 12 73+ Weather Wind Wind Rain CIOUG Visibility Frost Cloud Snow Notes(e.g. temperature) speed direction cover. height Hr 15'22 N 2 Ò Hr 27.20 N 8/3 H O 0 Hr 38' 24 ΝĔ 7. Ð 0 14 WO C Hr 44120 ΝŒ 10 ٥ 400 25 Hr 5 (4.2) NE 2 a U Hr 611.20 NE 5 °C 0 0 Hr 7(112) NE 5"4 100 0 oHr 8(3:22 NE 7 SIL 12 Field Notes: Maps whached

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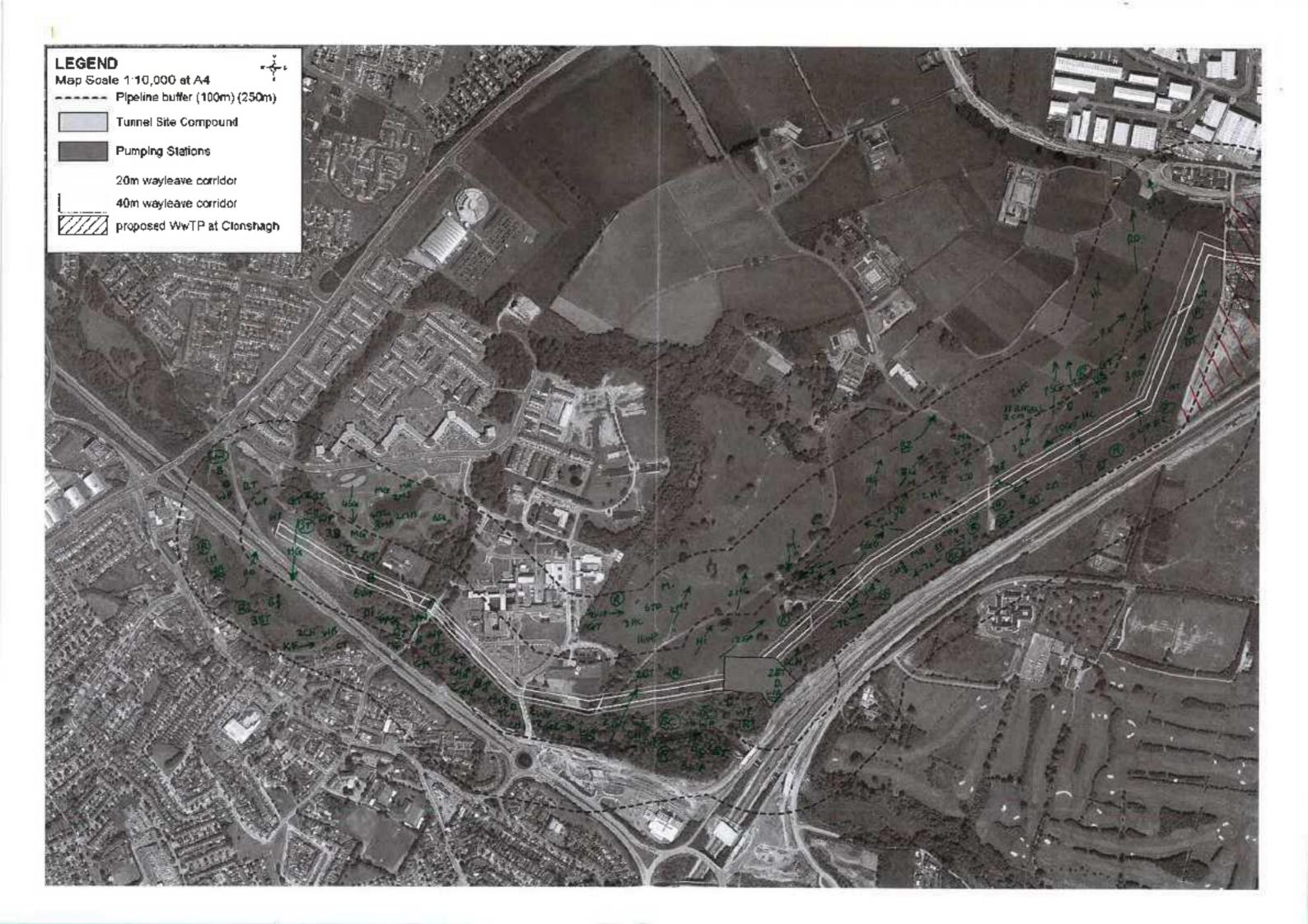
Wind Speed Cloud Direction **Hair/Snow** Weather Sheet Cloud Height RPS Visibility COVER Beauter Moh Height of closed Calm Site ы N None: 600 0 In eighths Poor («1km): 0 above everage Claim air NE 1-3 Drizzlo/Mist ep. 3/8 1 Moderate (1-3km) heighted LIGNI breeze Date 4.7 103/2017 Light ahowers 2 Bood (»3km) 2 weveled ŠΕ Genile breeze 8-12 Heavy showers 3 Mod. breeze Survey 13-16 9 Heavy rain <150m Fresh breeze 19-24 SW Lying Snow Figet 150-500m Observer Voile Strong breeze 25.31 ₩ >500m Mod.gale 32-38 NW Nane ٥ None Start Time 07:50 Freshigate 31-4B Please be as accurate as possible, with elle atO Ground Shorp gale weather dotails, entering only one figure, 9 47-54 High ground 2 All day Finish Time 14:30 Whole gale 10 54-63 not a range, e.g. WS - 5, not 5-6. **G**lorm Lies notes for every hile. 11 64-72 Sheet 1/ & | Maps attached Humicane E.g. WS - 5, gusting 8 (in notes). 12 77]+ Weather Wind Wind Rain Cloud Cloud VISIDIIIIV Frost Snow Notes(e.g. temperature) speed. direction cover height Hr 1 67 (3) 3 W 0 14/8 - 1°C ŧ Hr 20854 7/8 - 1°C 2 1 1 SMO SHUJERS Hr 308:50 0 7/8 0 00 7 Ü Hr 4 (0.50) 4 0 6/8  $\omega$ 7 2 36 0 0 Hr 511:50 7/8 2 2,0 0 SLEEK 1 0 Hr 6 17:50 9,1 5/8 0 7 Z 0 0 Hr 78:50 40C ندي 0 2 2 0 0 Hr.8 فساك 5/8 2 J. Field Notes: Maps attached

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Wind Speed Cloud Direction Rain/Snow RPSWeather Sheet Cloud Height Visibility Cover Варифи Мріт Height of cloud Calm Site 600 >1 N None Û In elemba Poor (+1km) D ethore average Lkoh Lair 1.3 NE Driggly Maliga 44.38 Моженам (1-3)(п) 1 height of Date Lightbreeze 4.7 E Light showers 2 20/03/2017 Good (x3km) 2 viewshed S€ Gentle breeze 3 8-12 Hoavy showers 3 Mod, breeze SURVEY Winter MO 13-15 Heavyran <1**60m** Fresh breeze SW 19-24 Lying Snow Frost 150-500m ( N. Veite Observer Strong brooze 8 26-31 >500m Mod. gate 32-38 NW None 0 Mone 07.30 Start Time Fresh gale 39-46 Please be as accurate as possible, with On site 1 മയനർ weather details, entering only one liquie, Strong gale 41-54 High ground 2 Finish Time All day 15.30 Whole gate 14 not a range, e.g. WS - 5, not 5-5. Use notes for extra into. 55-69 34mm 11 64-72 Sheet 1/ & [ ] Maps attached E.o. WS - S, dusting 6 lin notes]. Hurtkane 12 734 Weather Wind Wind Cloud Rain Cloud Visibility Frost Snow Notes(e.g. temperature) speed direction cover height Hr 17:30 O 7/5 W 2 700 Hr 28:30 218 ωì. 2 w 2  $\triangle$ Hr 39:36 818 لسا 2 90 6 2 Hr 4 10 7+ 4 لسا 0 818 2 2 Hr 511.30 0 2 Z 1304 Hr 617:50 SU0 2 2 Hr 7 (\$135) 50 818 1000 2 Hr 8 4-30 SW Field Notes: Meps allached For office use only, NB-Logged Database Entered Database Validated **GIS Entered** GIS Validated Initial AND date ALL bases.

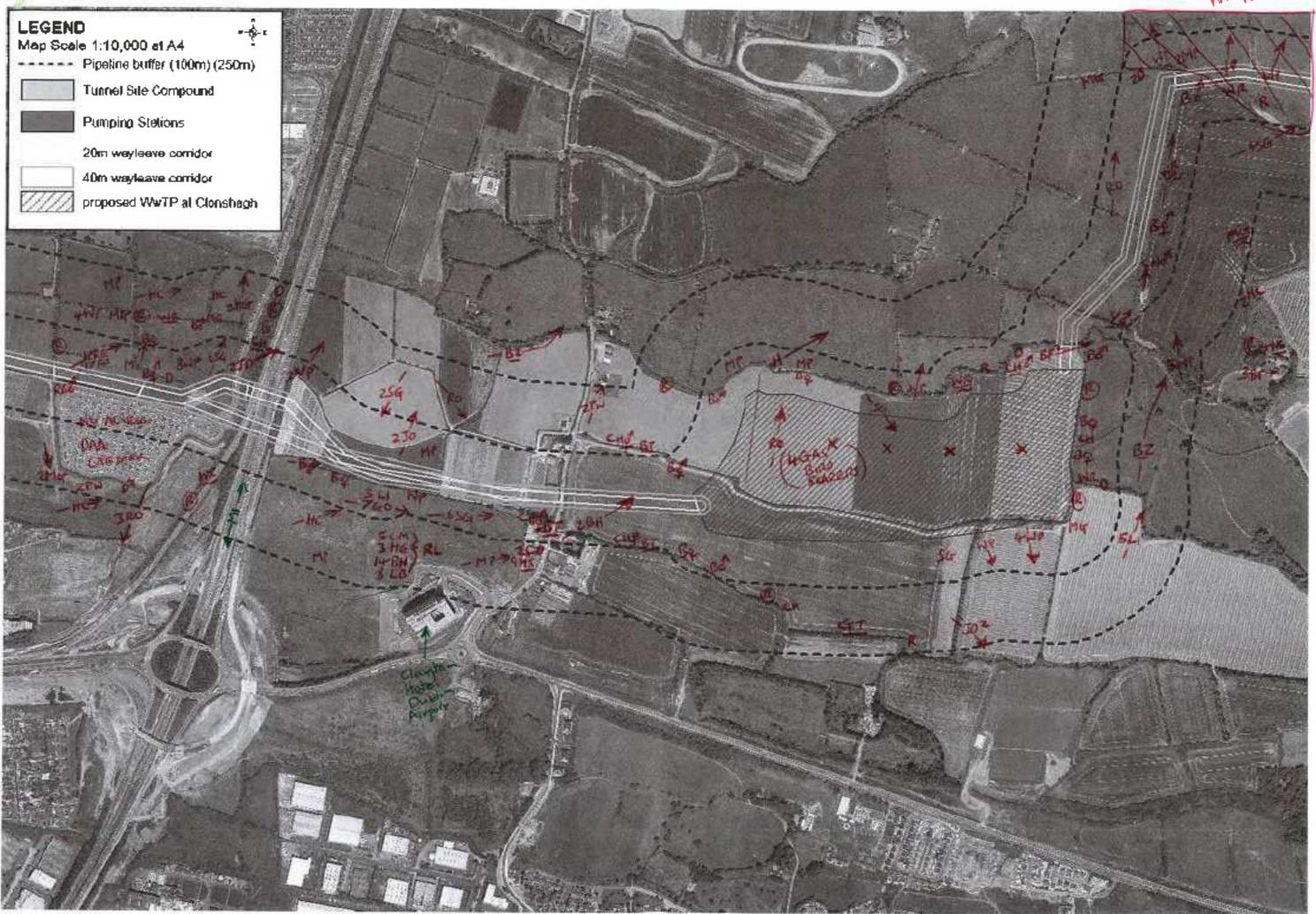
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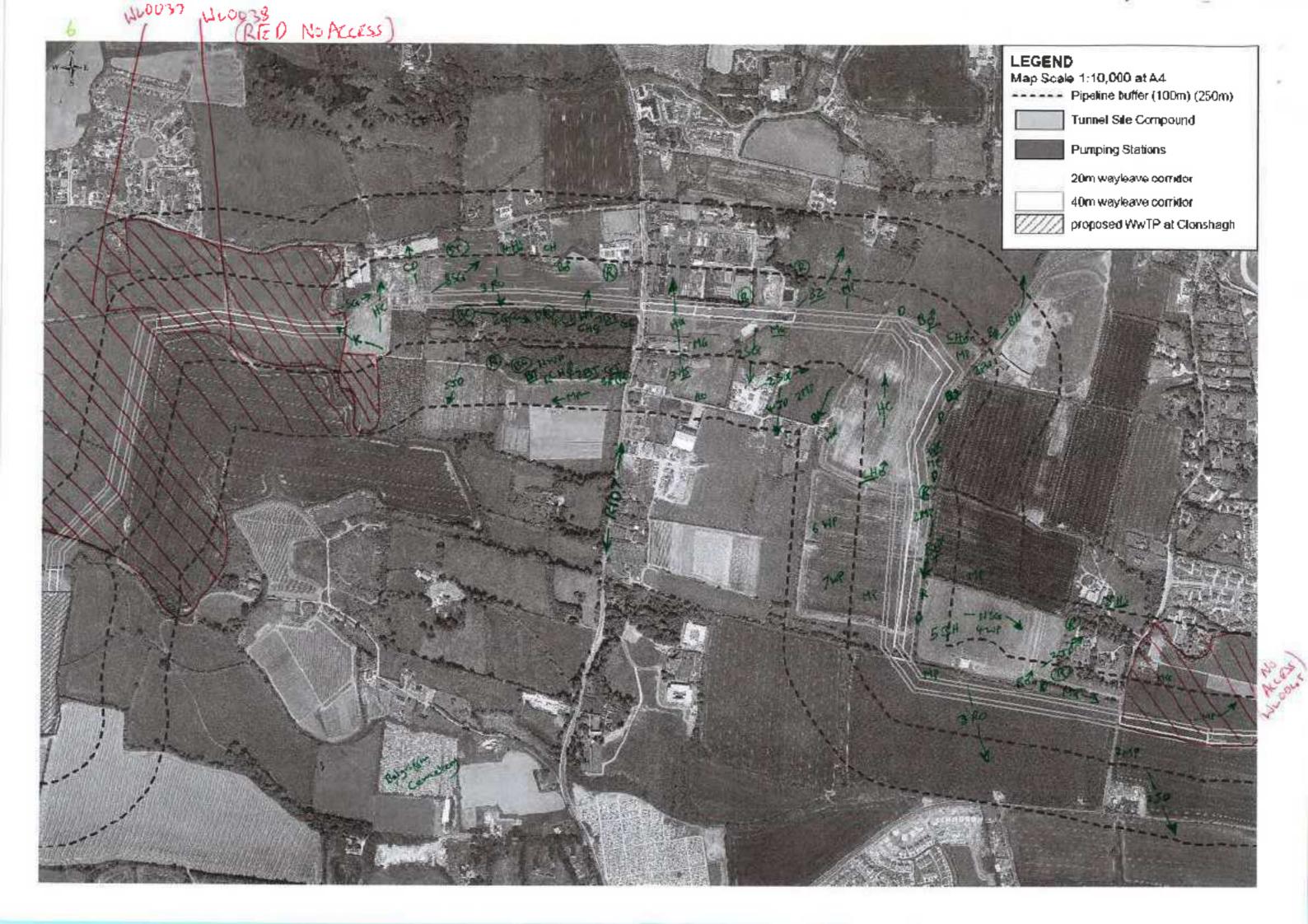




(TRAVELER SITE)







(WLOCUS)-**LEGEND** Map Scale 1:10,000 at A4 ----- Pipeline buffer (100m) (250m) Tunnel Site Compound Pumping Stations 20m wayleave conidor 40m wayleave corridor proposed WwTP at Clonshagh

TRAVELER HALTING SITE)



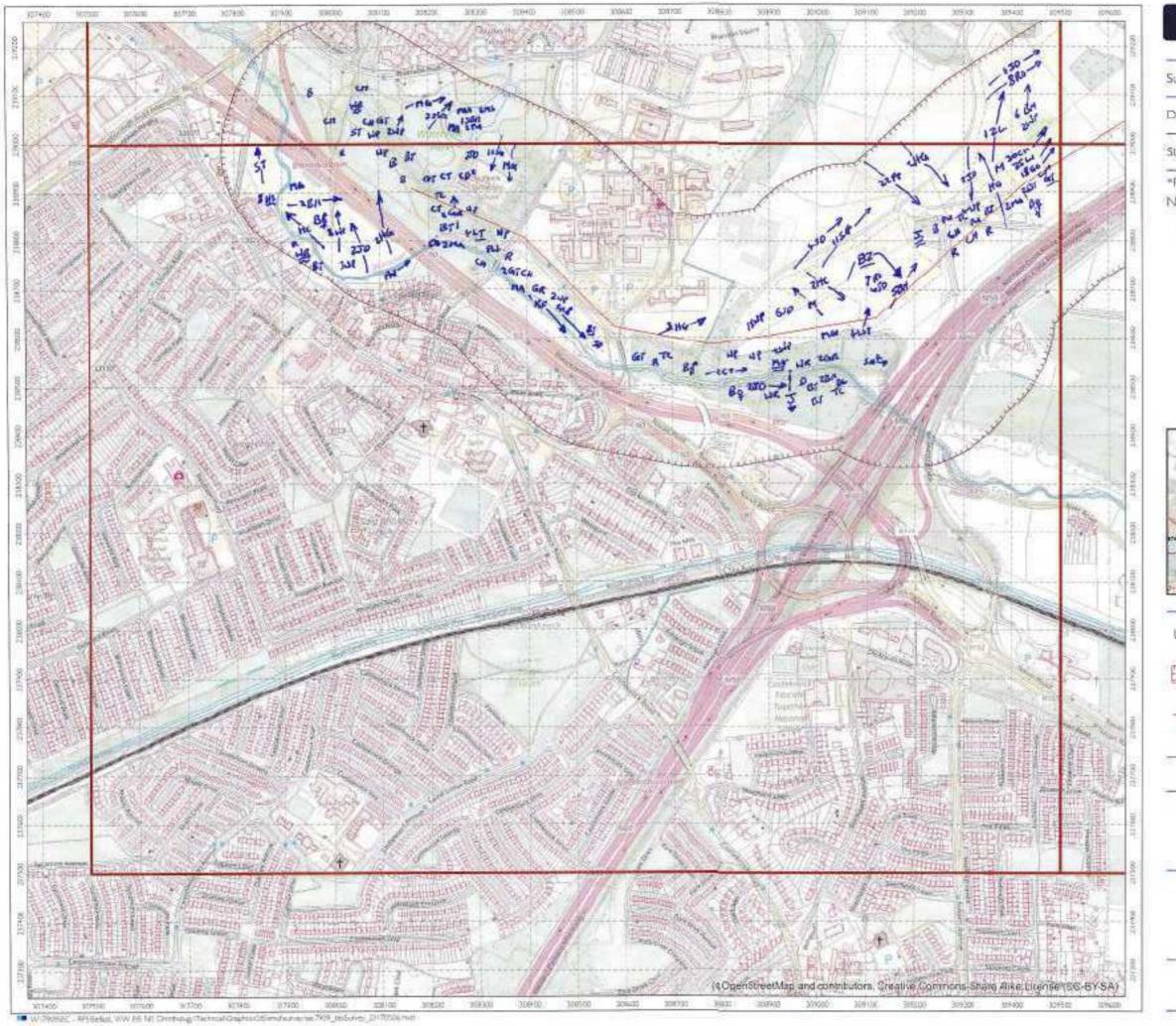
# GDD Oral Hearing Response to Inspector's Questions

## APPENDIX 5 WINTER 2017 (NOVEMBER)

The data from the November 2017 winter walkover surveys were mapped, and are enclosed below (along with the associated survey recording sheets).

M-44529433-1 6

RPS	W	eather She	eet	Wind :	Beaut		Direction	Rain/Si		Cloud	Cloud Height Height of cloud	Visibility		
Site	G	00		Calm Light ai		>1 1-3	N NE	None Drizzle/f		In eighths e.g. 3/8	above average height of	Poor (c1km) Moderate (1-3km)		
Date	8	11/17			breeze 3	4-7 8-12	E SE	Light sh Heavy s	howers 3		viewsned	ned Good (>3km) 2		
Survey		Mo		Mod. b		13-18	5 SW	Lying S		Frost	<150n 0 150-500m 1	1		
Observer	N	.Vent		Strong Mod g	breeze 6 ale 7	25-31 32-38	W NW	None	0	None (	>500m 2			
Start Time	0	8.10		Fresh o	pake 8	39-46	1414	On site	1	Ground	Please be at acc	urate as possible, wit entering only one figur		
Finish Time	e 15	: 20		Strong Whole	gale 10	55-63		High gro	ound 2	All day :	not a range, e.g. Use notes for ext	WS - 5, not 5-6.		
Sheet 1/ 8	&[]	Maps atta	ched	Storm Hurrea	ene 1	10. 1276 0 0 0 0 0 1					E.g. WS - 5, gust	ing 6 [in notes].		
# 8.40 (U.S.)   F.   1.10 (U.S.)     F.   1.10 (U.S.)	Wind speed	Wind direction	Rain	Cloud	Cloud height	Visibility	Frost	Snow	Notes(e.g	. temperat	ure)			
Hr 1	4	Su	O	5/8	2	2	1	_	230					
Hr 2	4	SW	0	4/8	2	2	0	_						
Hr3	3	SU	0	6/8	2	7	0	-						
Hr 4	3	س	0	613	2	2	0	_	4°C					
Hr5	4	Sw	2	6/8	1	2	0		200					
	4	SU			2	2	0	_		T.L. Cocces				
	3	Sw	2		1	2	WEIGHT.	_						
Hr 8	4	SW	0	5/8	2	2	0	/	900					
Hr 5 Hr 6 Hr 7 Hr 8 Field Notes: Maps attac	4 4	5W 5W	2 2 2		1	2	0		9°C					





Surveyor: Nich Veole

Date 08/11/2017

Start time: End time:

\*Please attach weather sheet

Notes:



Legeno

BBS/WWO survey boundary (250 m buffer of route supplied 20170405 appended to previous boundary)

Pipe route (supplied 20170405)

Greater Dublin Drainage

Breeding/winter bird survey

Page 17 of 18

200 m

Date: 06/04/2017 | Job No: SEC7909

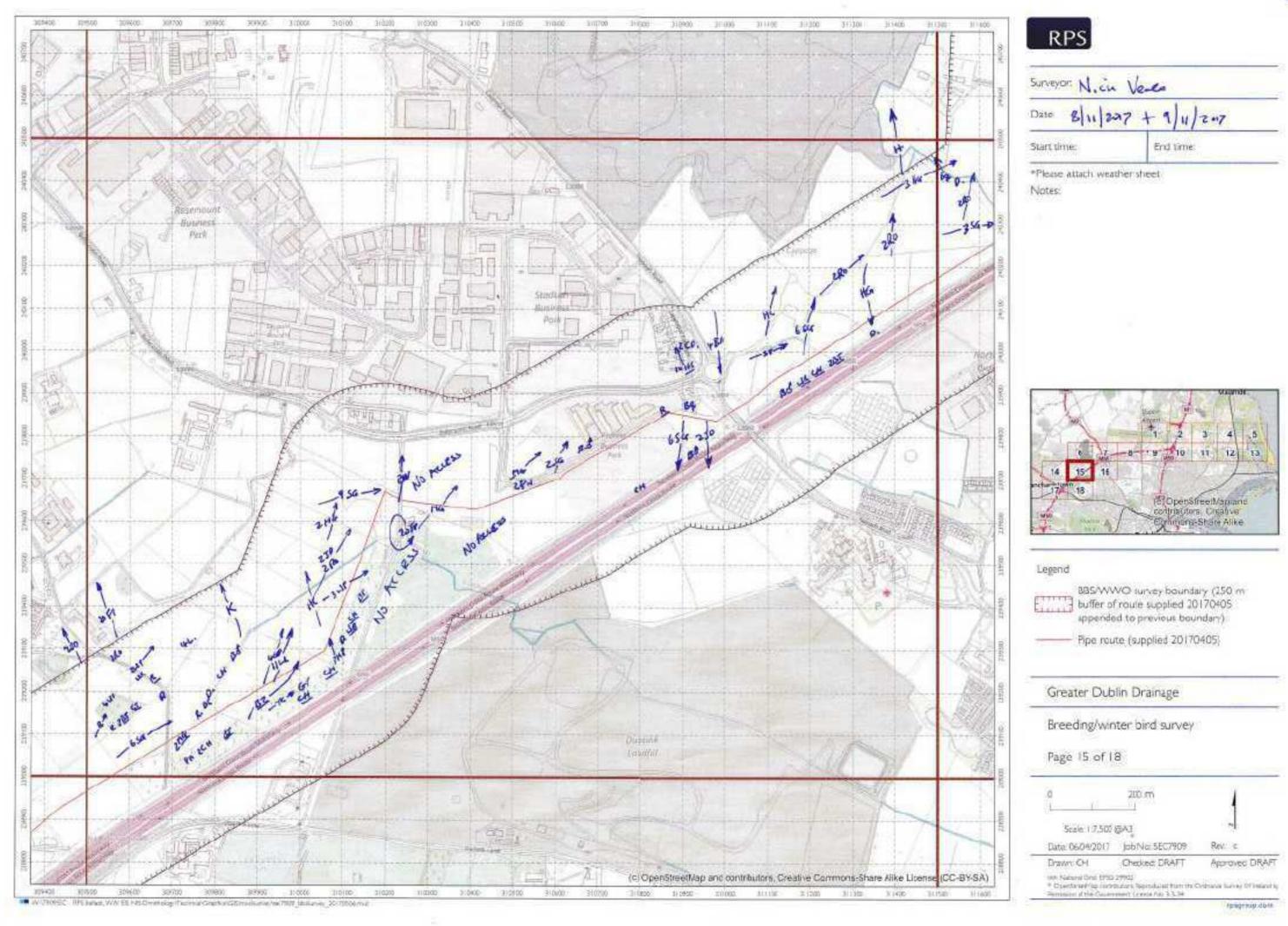
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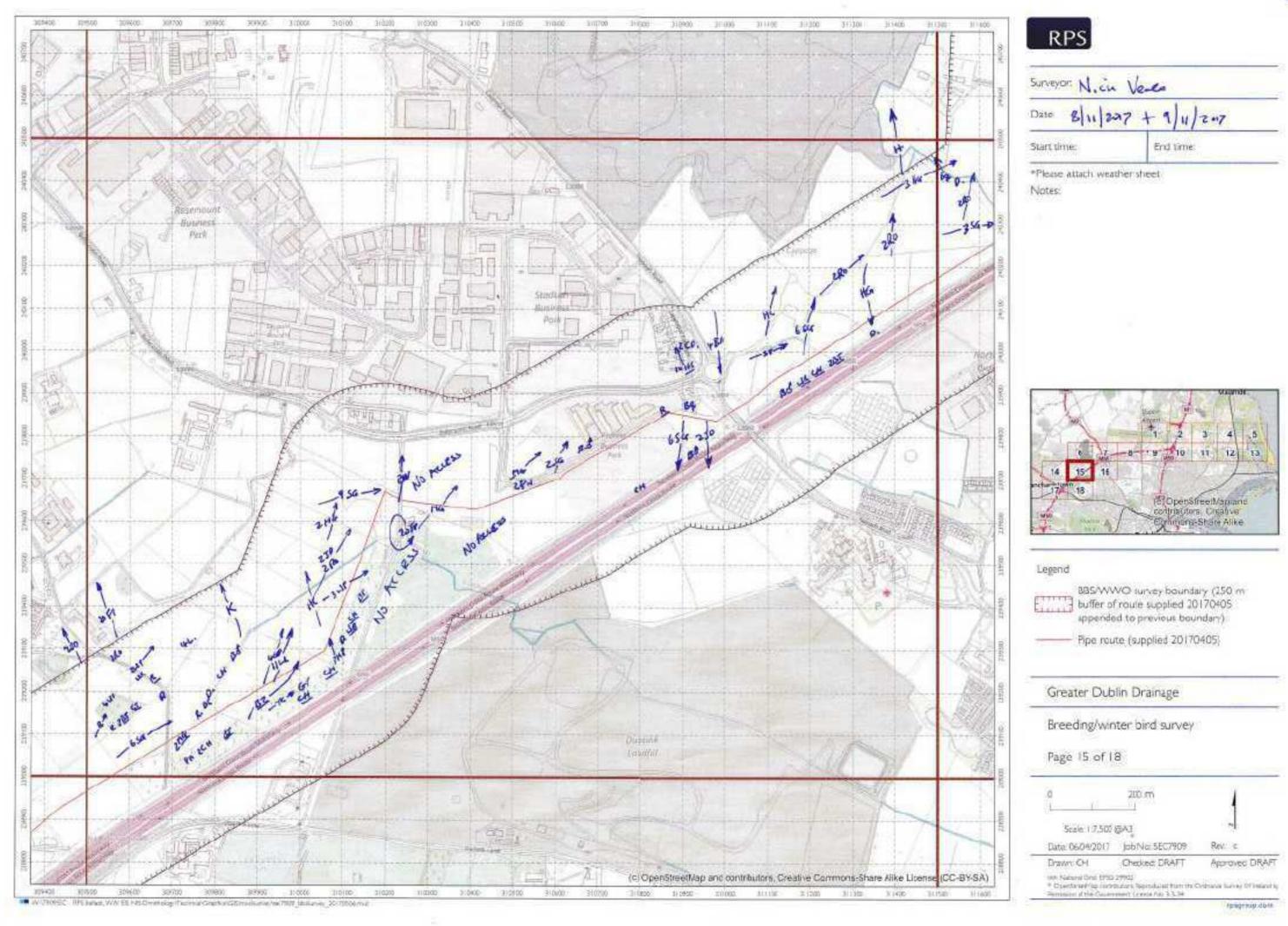
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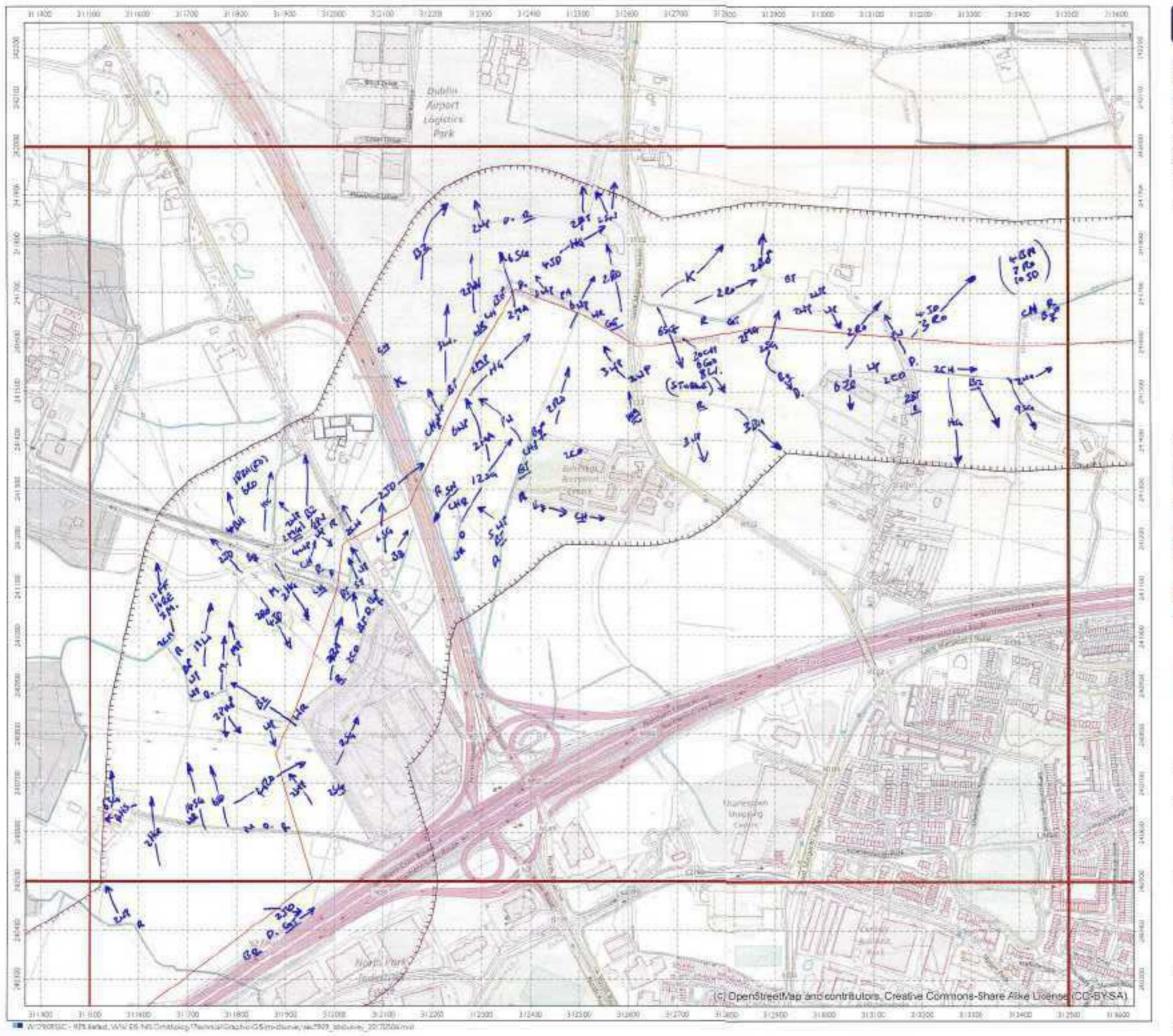
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Approved: DRAFT



RPS	w	eather Sh	eet	Wind	Speed Deau		Direction	RainS	1875000	Cloud	Cloud Height Height of cloud	Visibility
Site Date	9	00		Light a Light b Gentle	reeze 2 breeze 3	>1 1-3 4-7 8-12	N NE E SE	None Drizzla/ Light sh Heavy s	owers 2 howers 3	te eighths e.g. 3/8	above average height of viewshed	Poor (<1km) 0 Moderate (1-3km) 1 Good (>3km) 2
Survey	h	100			breeze 4 13-18 breeze 5 19-24	SW SW	Lying :		Frost	<150m 0 150-500m 1		
Observer	N	in Veal	2	Strong	broczo 6	25-31	w		200	10.5000	>500m 2	
Start Tim		28:30 Fn		Mod gate 7 32-38 1 Fresh gate 8 39-46		NW	None On site	0 1	Ground	Please be as acc	urate as possible, with	
Finish Tir	-	5: 30		Strong gale 9 47-54 Whole gale 10 55-63				High ground		All day	not a range, e.g.	intering only one figure WS - 5, not 5-6,
Sheet 1		Maps atta	ched	Storm	1	1 64-72					E.g. WS - 5, gust	ra info.
Weather	Wind speed	Wind	Rain	Cloud	Cloud height	Visibility	Frost	Snow	Notes(e.g	. temperat	ure)	100-5-15-1700
Hr1	5	NU	1	8/8	1	2	-		88			
Hr 2	4	W	1	8/8	T.	2	-	-				
Hr 3	4	W	0	6/8	1	2	-		and the same of			
Hr4	4	NU	0	6/8	2	2	-		1100			
Hr 5	4	NW	0	6/8	5	2	-		West and the second			
Hr 6	4	NW	0	5/8	2	2		_		J11		
Hr 7	5	U	0	3/8	2	2	-		11°C			
Hr B Field Notes	5	m	0	3/8	2	?					W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W.	
Maps at	tached	- V		4		- P			The state of the s			
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Surveyor Nicer Vene End time Start time.

\*Please attach weather sheet

Notes:



Legend

BBS/WWO survey boundary (250 m. buffer of route supplied 20170405 appended to previous boundary)

- Pipe route (supplied 20170405)

Greater Dublin Drainage

Breeding/winter bird survey

Page 7 of 18

200 m Scale: 17,500 (BA3 Date: 06/04/2017 | Job No. 5507909

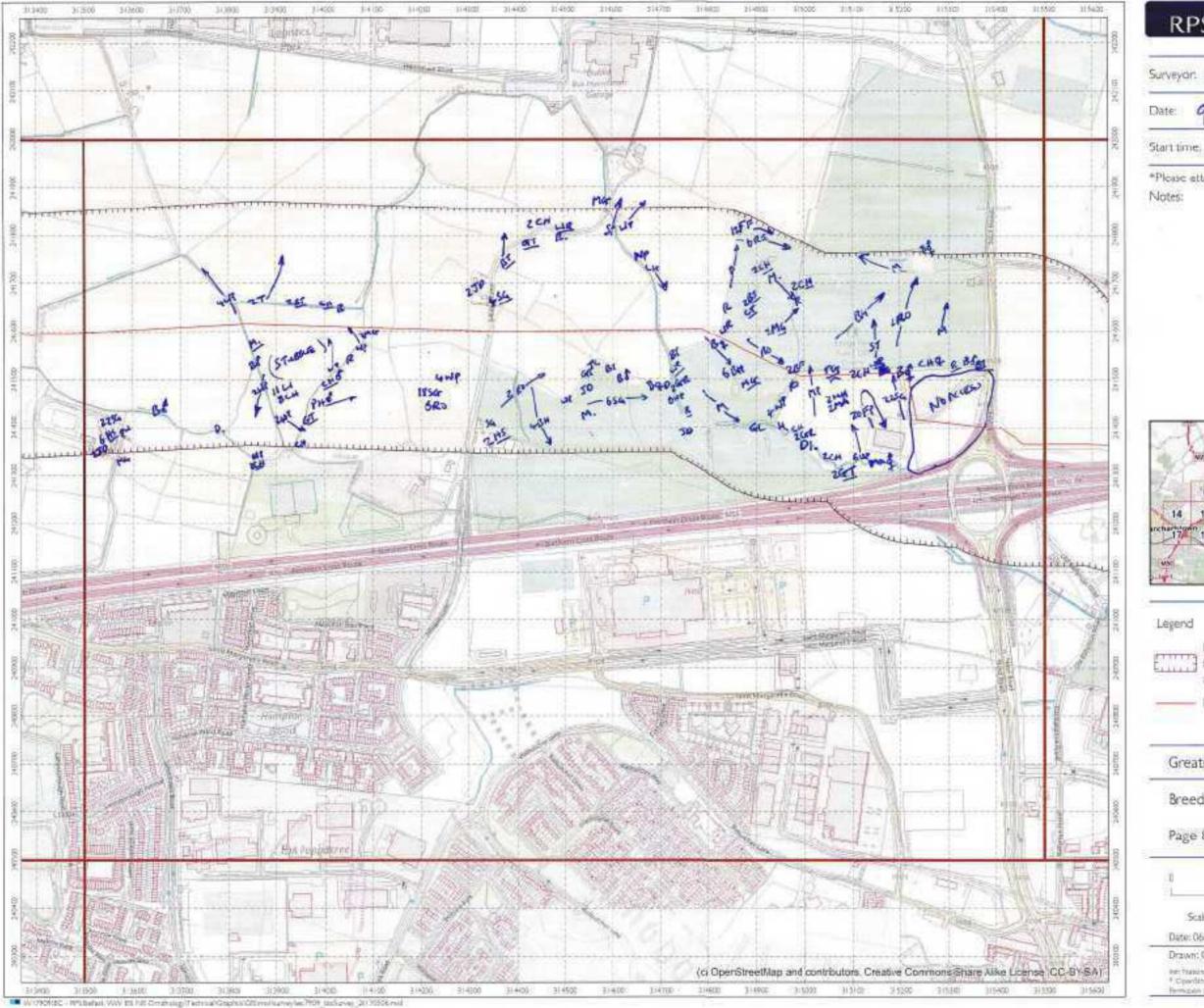
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Approved DRAFT





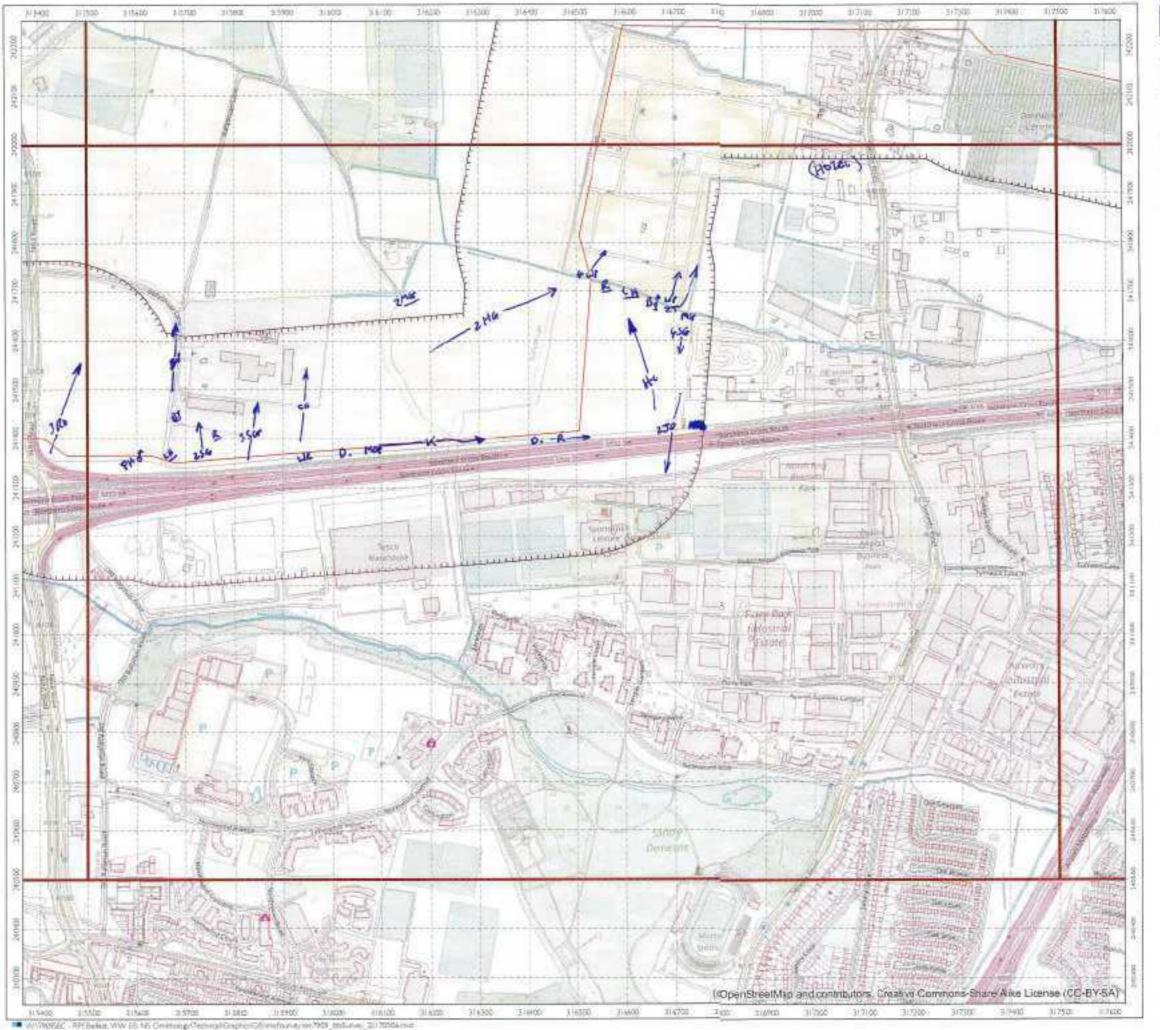
Legend BBS/WWO survey boundary (150 m buffer of route supplied 20170405 appended to previous boundary) Pipe route (supplied 20170405) Greater Dublin Drainage Breeding/winter bird survey Page 8 of 18

Scale: 1:7.500 (BA3) Date: 06/04/2017 | Job No. 58C7909;

Drawn: CH Checked DRAFT Approved DRAFT ear hazard (ing 696) 29902.

\* Operating the protection Reproduced from the Dimbard Survey Of Instances for a Superintent Island in the 33.34.

RPS	v	Veather Sh	eet	5000000	Speed Beaut	ort Mph	Direction	RainS	now	Cloud	Cloud Height	Visibility		
Site	0	500		Calm Light as	ir 0	>1 1-3	N NE	None Drizzla/I			Height of cloud above average	Poor (c1km) 0 Moderate (1-3km) 1		
Date	100	3/11/17		Light b		4-7 8-12	E SE	Light sh Heavy s	owers 2	7.000 30.007	height of Good (>3km)			
Survey		WUO		Mod b	reez≘ 4	13-18	S	Heavy r	ain 4	F	<150n 0			
Observer	1	N. Vede		Strong	breeze 0	25-31	SW W	Lying :	ranner.	Frost	150-500m 1 >500m 2			
Start Time		08:40		Mad. g Fresh g	ale 7 pale 8	32-38 39-46	NW	None On site	0	None 0 Ground 1	Please be as acc	imite as possible, with		
Finish Tir		15:40		Strong gale 9 47-54 Whole gale 10 55-63			High ground 2		All day 2					
Sheet 1		Maps atta	ched	Storm. Hurres		1 64-72					Use nates for extr	lee notes for extra info. .g. WS - 5, gusting 6 [in notes].		
Weather	Wind speed	Wind	Rain	Cloud	Cloud height	Visibility	Frost	Snow	Notes(e.g	. temperatu	Children Caracters	7.7.0.1.00.5		
Hr 1	3	U	0	6/6	2	1	1		loc					
Hr.2	4	ш	0	5/8	2	2	0							
Hr3	3	يو	0	7/8	2	2	6							
Hr4	3	54	0	6/8	2	2	0		Soc					
Hr5	3	54	2	7/8	2	2	0							
Hr 6	3	50	2	7/8	2	7	0		A DOMESTIC					
Hr7	4	5~	2	3/8	1	7	0		700					
Hr B Field Notes	4	SW	2	8/8	U	2	0		700		u-security and			
Maps att														
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Surveyor: N. Vecla Date: 13/11/17 Start time: End time:

\*Please attach weether sheet

Notes



Legend

88S/WWO survey boundary (250 m buffer of route supplied 20170405 appended to previous boundary)

Pipe route (supplied 20170405)

Greater Dublin Drainage

Breeding/winter bird survey

Page 9 of 18

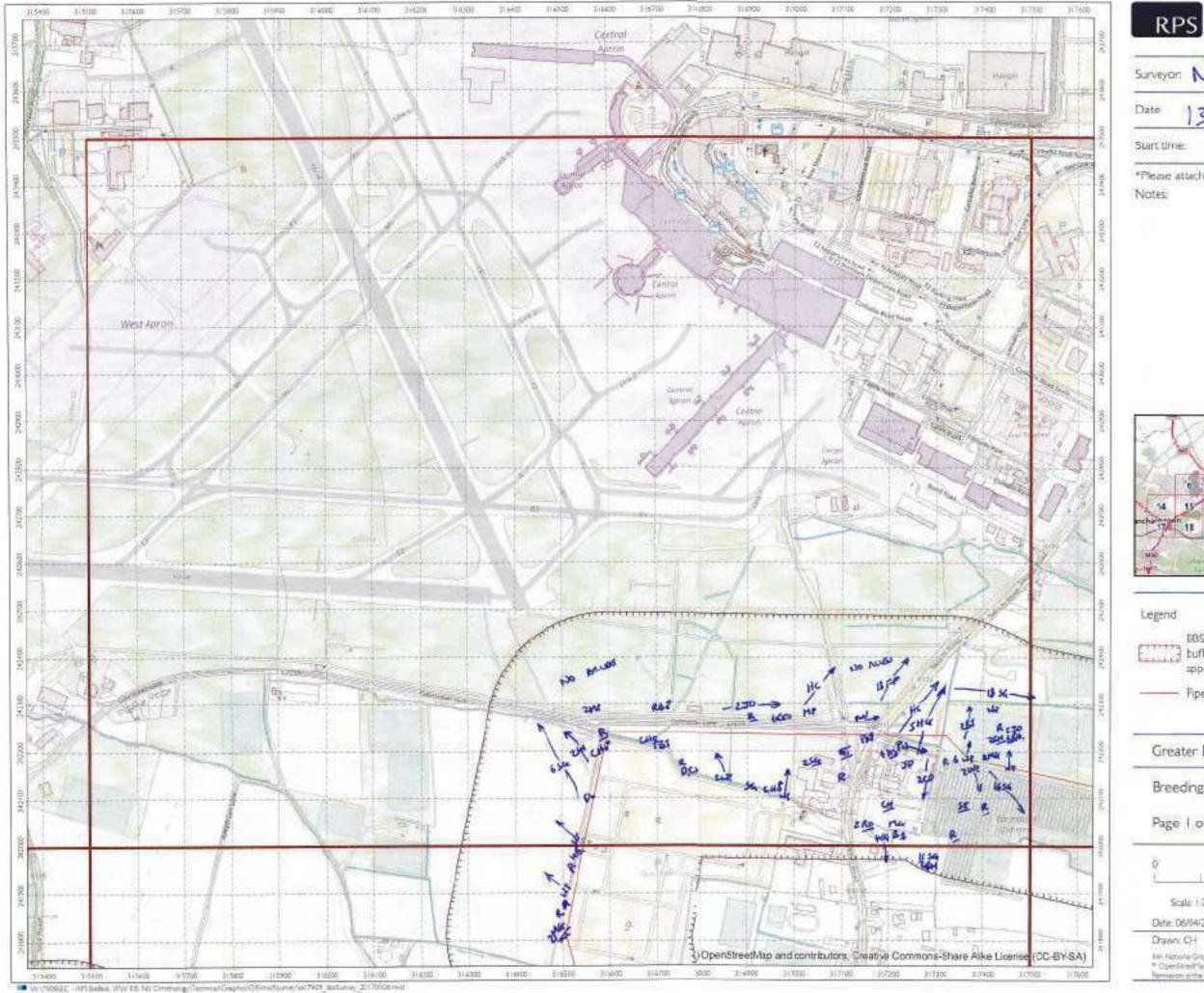
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Surveyor N. Vecle

End time:

\*Please attack weather sheet



BBS/WWO survey boundary (250 m buffer of route supplied 20170405 appended to previous boundary)

Pipe route (supplied 20170405)

Greater Dublin Drainage

Breeding/winter bird survey

Page 1 of 18

200 m Scale 17,500 @A3

Date: 06/04/2017 | Job No. SEC7909

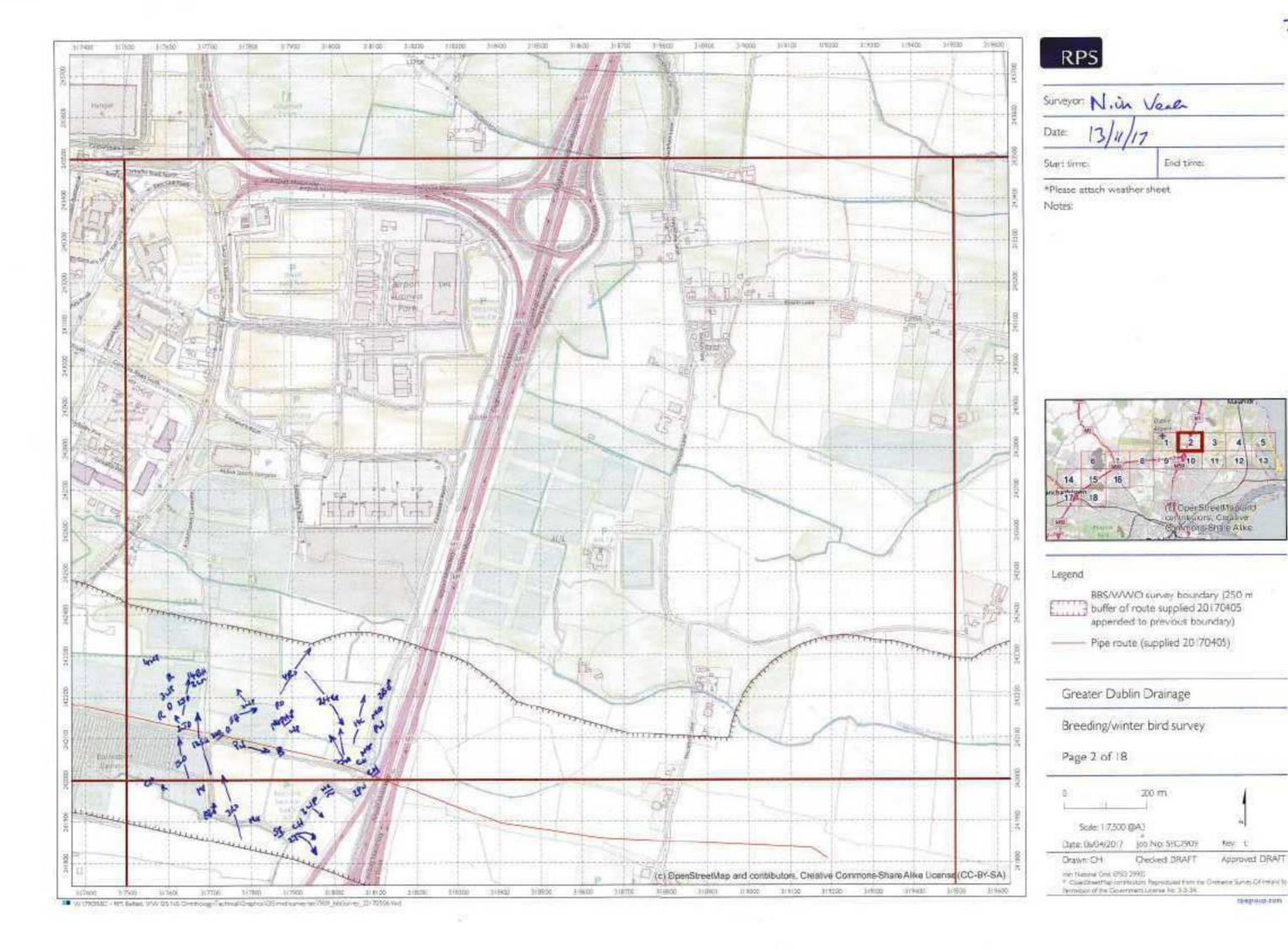
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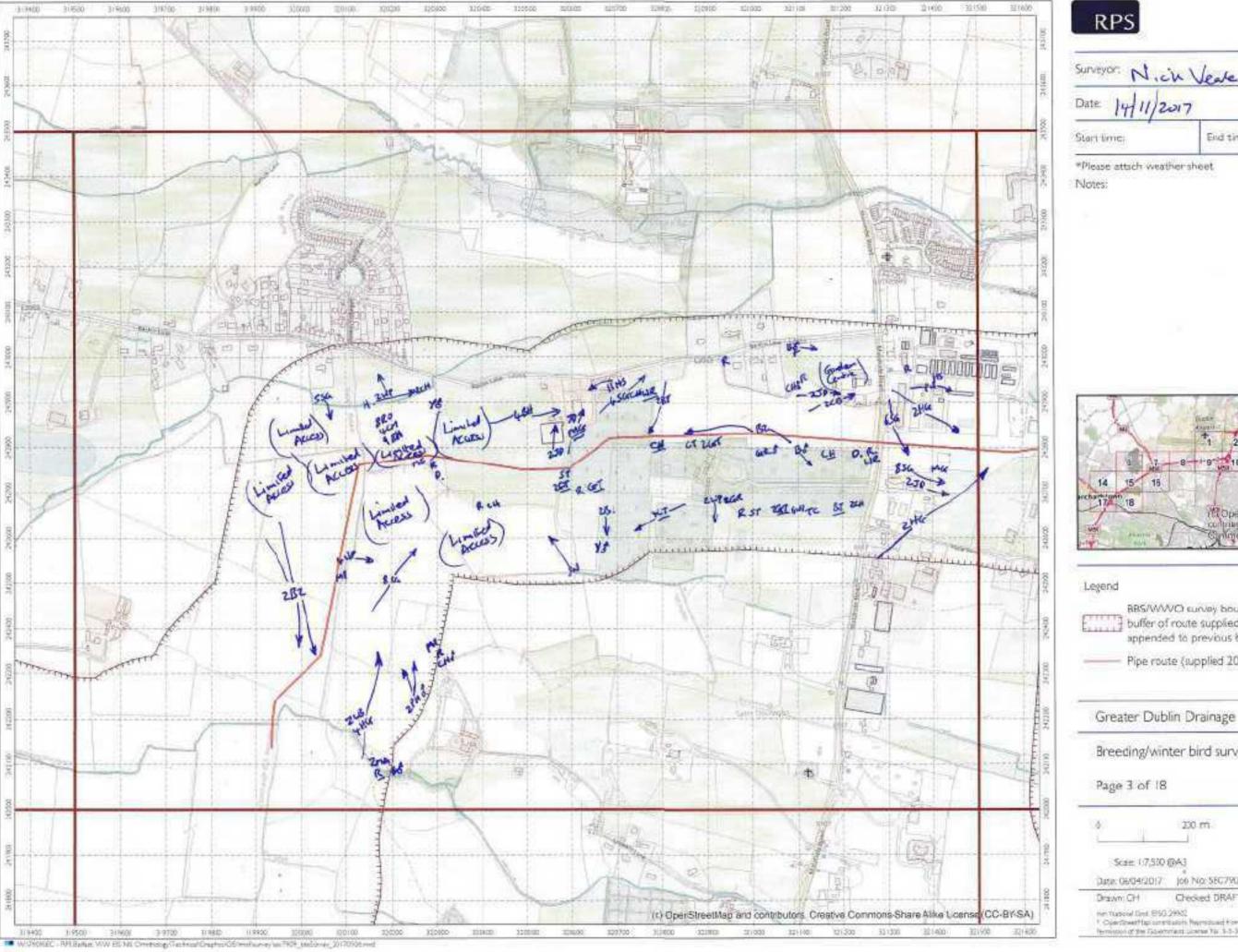
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RPS	w	eather Sh	eet	Wind 5	Speed Beaut	ort Mph	Direction	Rain/Si	MEXICO.	Cloud		Cloud Height Height of cloud	Visibility
Site	(	000		Calm Light si	, 0 , 1	>1 1-3	N NE	None Drizzle/	Wet 1	0 In eightfu 1 e.g. 3/8		above average Modern	Poor (c1km) ( Moderate (1-3km) 1
Date	1	4 11 17			breeze 3	4-7 8-12	E SE	Light shi	howers 3		1	viewshed	Good (>3km) 2
Survey	L	JLO		Mad. br		13-18 19-24	S	Lying 5		Frost	_	<150m 0 150-500m 1	
Observer	A	lich Vea	h		breeze 6	25-31 32-38	W	None	0			>500m 2	
Start Time	e 6	19:00		Fresh	jake 8	39-46	1444	On sits	1	Ground	1 1	Please be as accu	arate as possible, with mering only one figure
Finish Tir	ne	6:00		Strong Whole	gale 10	55-63		High gro	ound 2	All day	T 13	not a range, e.g. \	NB - 5, rot 5-6.
Sheet 1/	&[	Maps atta	ched	Storm Hurrica	ne ti					ŀ		E.g. WS - 5, gusti	
Weather	Wind speed	Wind	Rain	Cloud	Cloud height	Visibility	Frost	Snow	Notes(e.g	. temperal	ture	)	
Hr1	4	W	ı	8/8	1	12			lo°c				
Hr 2	5	U	0	8/8	I.	2		illes .					
Hr 3	3	SU	2	5/8	2	2	1		-				
Hr 4	4	54	0	6/8	2	2			loc				
Hr5	4	W	0	618	2	7				Harry III			
Hr 6	4	SU	0	6/8	2	7 2							
Hr7	4	SW	0	5/8	2				1200				
Hr 8	5	SW	0	418	2	2	-	-					
Field Notes Maps at													
For office us Initial AND of boxes.	se only. N	B- Logged	i	Databa	ise Enter	ed D	atabase '	Validate	d GIS	Entered		GIS Val	lidated





Surveyor: Nich Veale End time:



BBS/W/WC) survey boundary (250 m buffer of route supplied 20170405 appended to previous boundary)

Pipe route (supplied 20170405)

Breeding/winter bird survey

230 m

Date: 06/04/2017 | |co No: 5EC7909

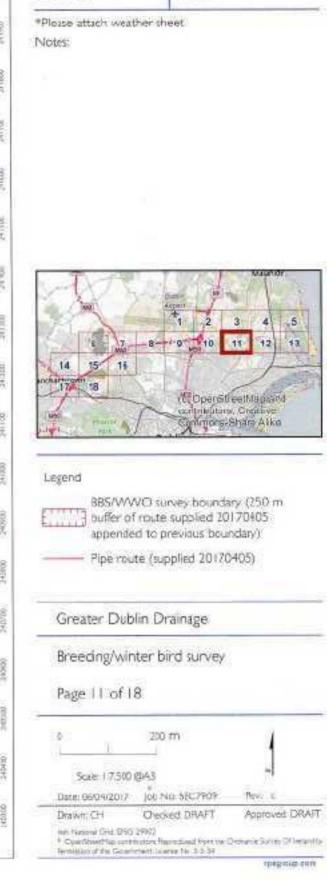
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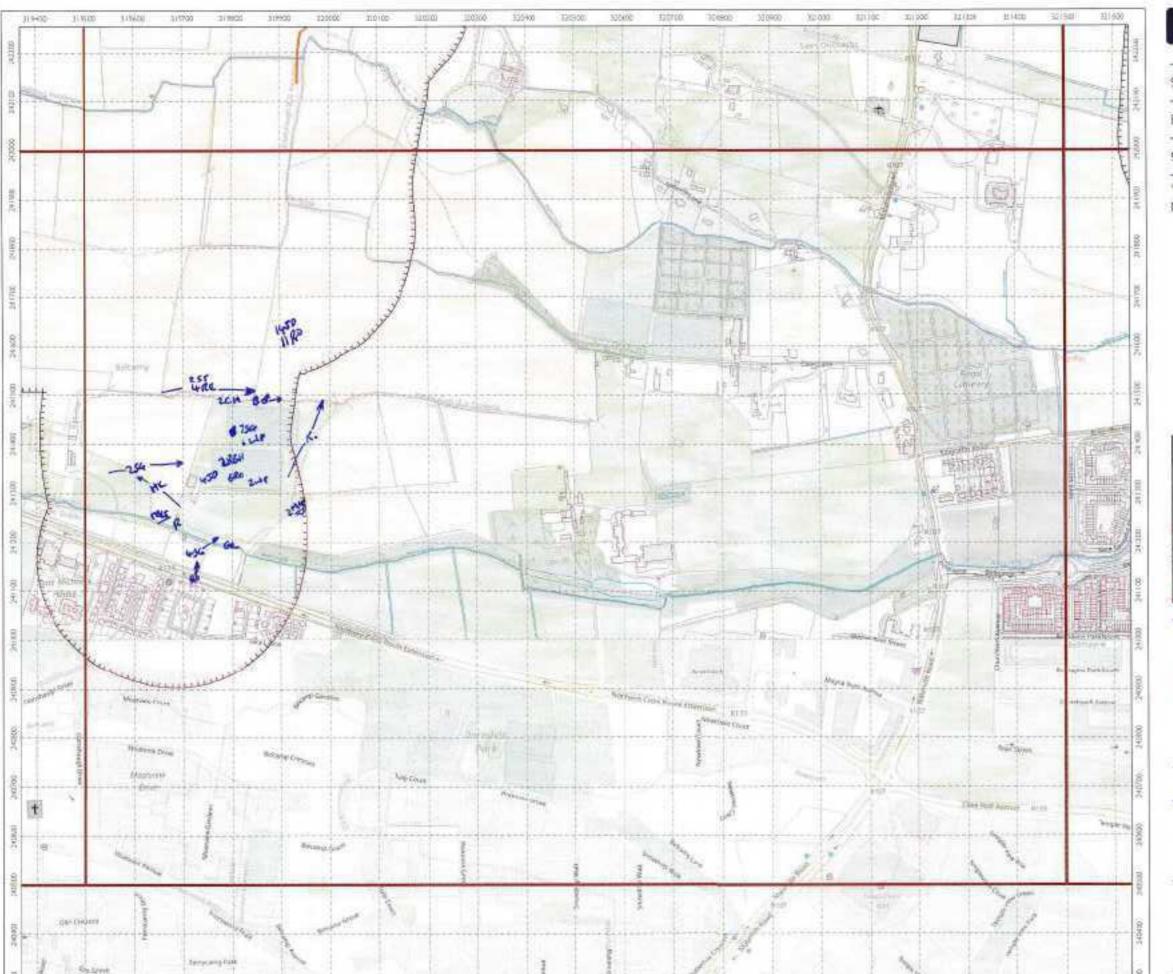
CoarCoast (spicerer sale), Represented from the Chibarce Salvey Chibarce (spicerer) (spi

metroid con

Approved DRAFT







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3:9800

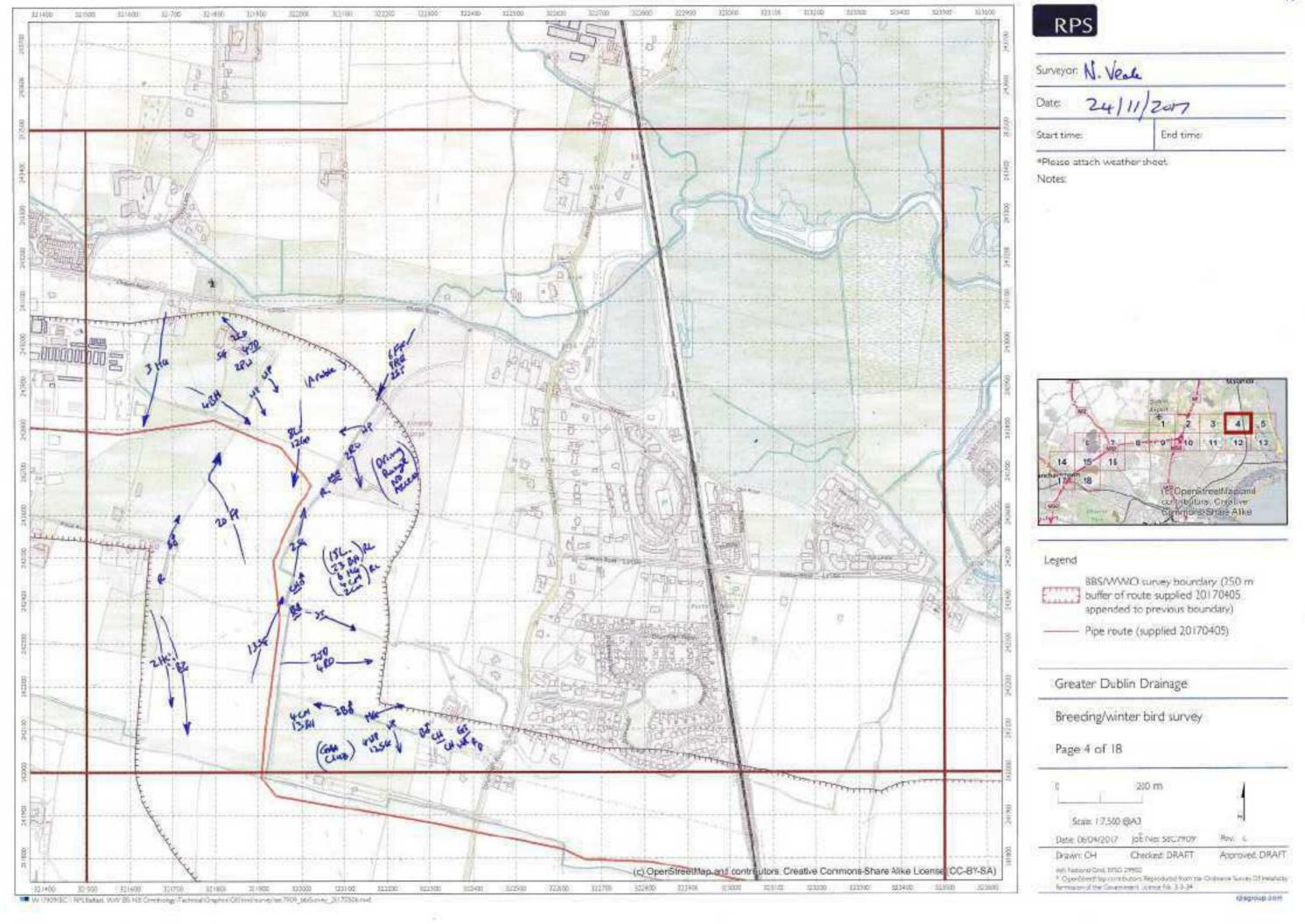
W (1909)SC - RPSBetta, WAI SK NRI Contributing Technol Emphasizations was a 1909, because JET 70505 and

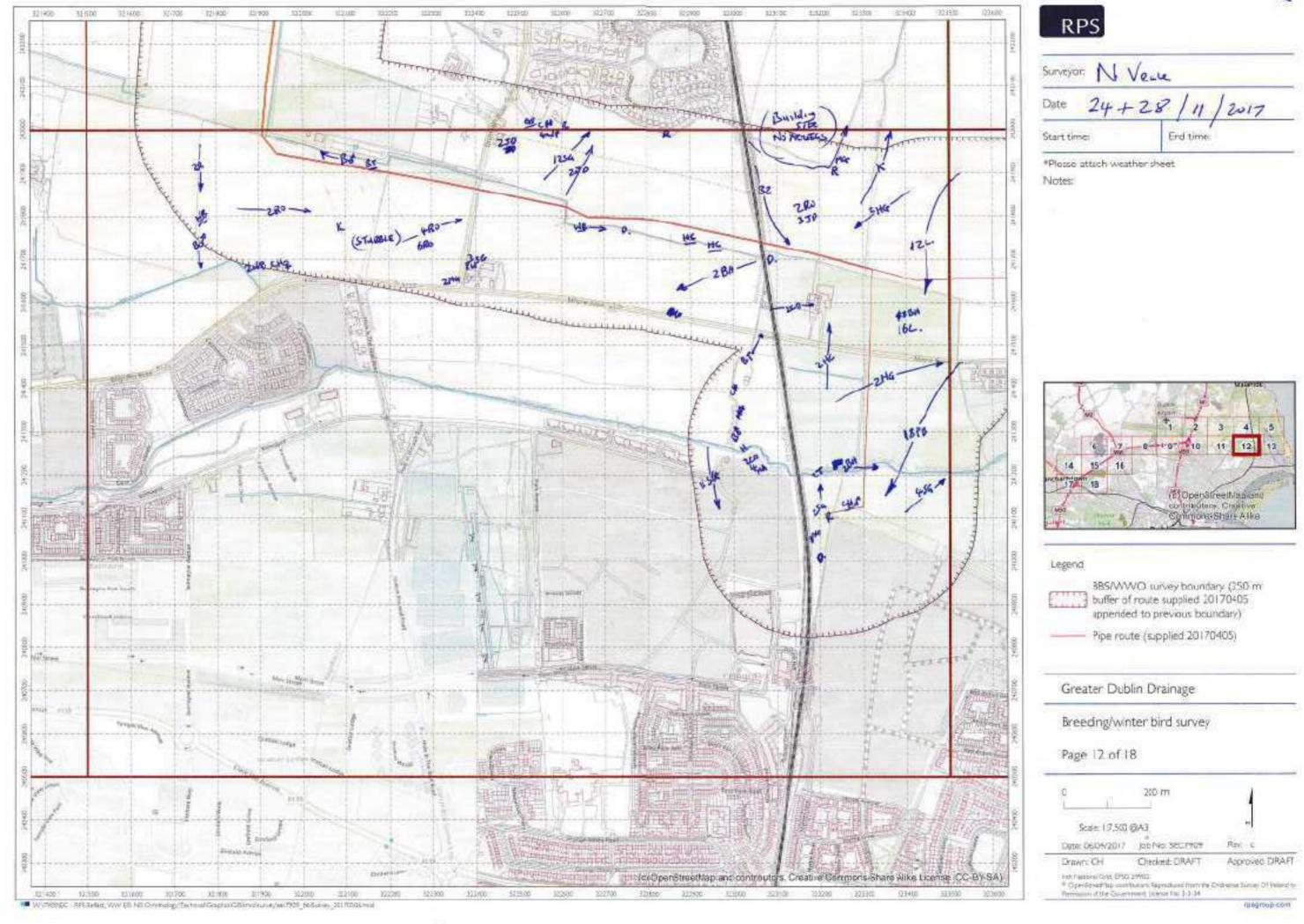
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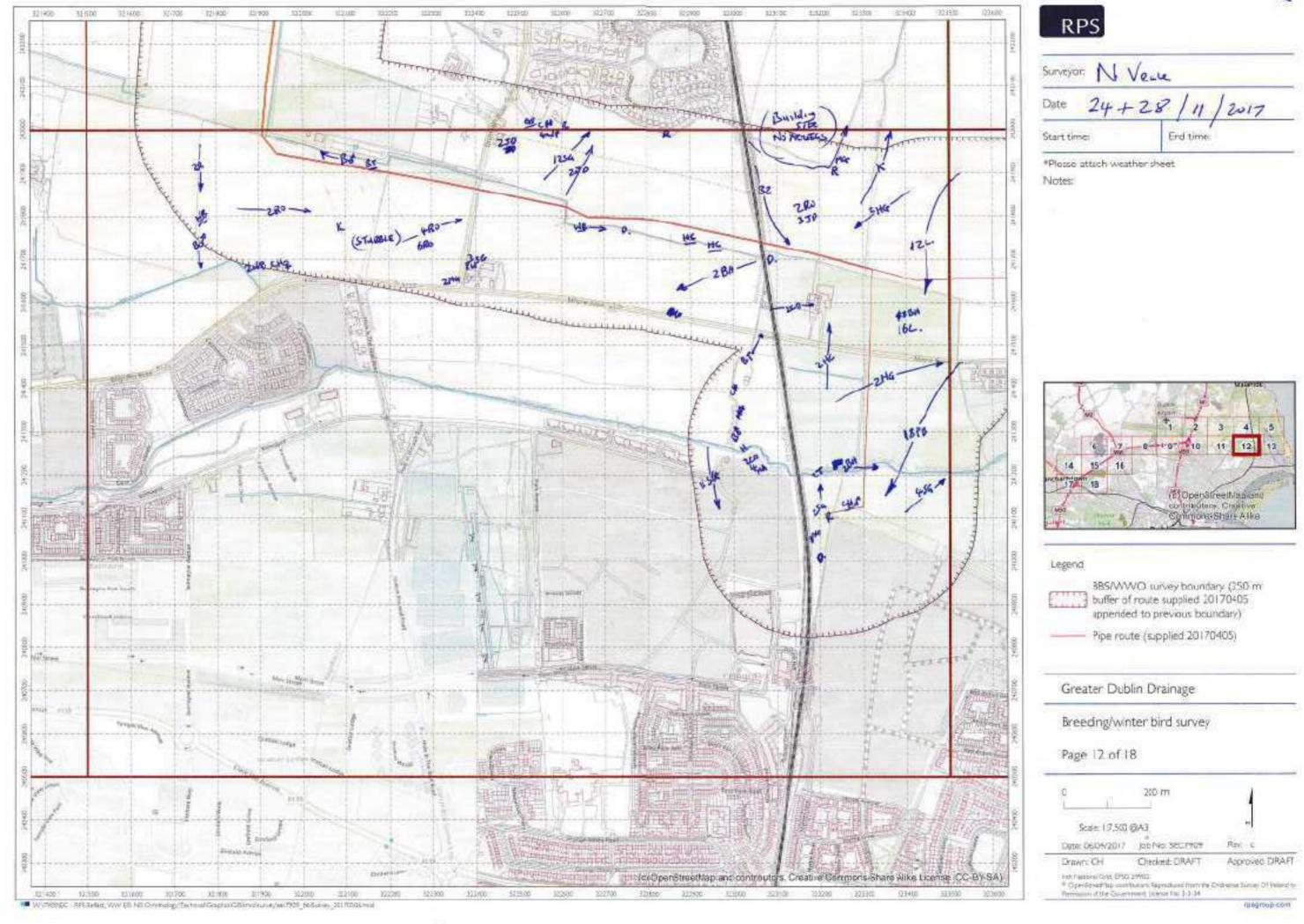
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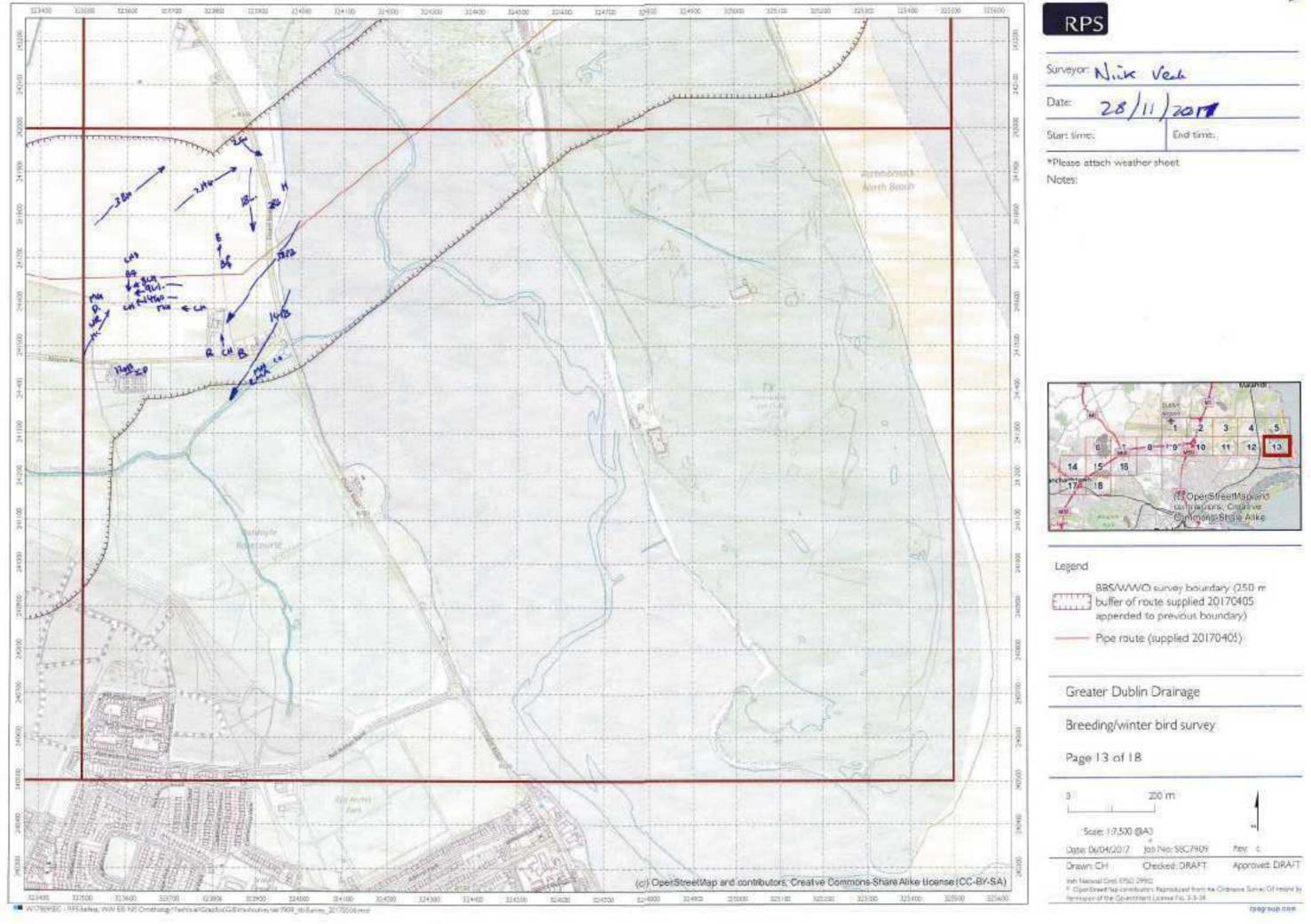
RPS	w	eather Sh	eet	Wind	Wind Speed Direction Rain/Sno					Cloud Cover	Cloud Height Visibility Height of cloud	Visibility		
Site	(	-00		Calm	ir 1	>1 1-3	NE Drizzle/Mist 1 e.g. 3/8			above average				
Date		4/4/17		Lightb	reeze 2 breeze 3		E SE	Light sh Heavy s	howers 3		viewshed	Good (>3km) 2		
Survey		VUO		Mod. b	ACTION OF THE PARTY OF THE PART	13-18 19-24	SW	Lying S	ain 4	Frost	<150m 0 150-500m 1			
Observer	1	Juli Ve	ale	Strong	breeze 6	25-31	W	100		Harriso Miles	>500n 2			
Start Time		8:50		Mod. gale 7 32-38 Fresh galo 8 39-46 Strong gale 9 47-54 Whole gale 10 55-63			NW	None On site	0	None 0 Ground 1	Please be as acci	unile as possible, with		
Finish Tin		5:30						High gro	ound 2	All day 2	not a range, e.g. \	entering only one figure, WS - 5, rot 5-6.		
Sheet 1/	1255 No. 1	Maps atta	ched	Storm	1	1 64-72		1			Use notes for extra into. E.g. WS - 5, gusting 6 [in notes].			
Weather	Wind speed	Wind direction	Rain	Cloud	Cloud height	Visibility	Frost	Snow	Notes(e.g	. temperatu	re)			
Hr.1	5	W	0	3/8	2	2	-	-	200					
Hr 2	5	W	0	5/8	2	2	3-							
Hr3	5	W	02	5/8	2	2	112		3°C					
Hr 4	4	W	1	618	2	2	_		I					
Hr 5	5	W	2	6/8	2	2	-	UE-	400					
Hr 6	5	W	2	6/8	2.	2	_	_	NAME OF					
Hr7	5	W	0	7/8	2	2			4ºC					
Hr 8	5	w	0	5/8	2	2	7		11					
Field Notes Maps att	7.4													
For office us Initial <u>AND</u> di boxes.	e only. NB	Logged		Databa	se Enter	ed D	atabase \	Validated	GIS	Entered	GIS Val	idated		





RPS	w	eather Sh	eet	Wind	Beaul		Direction	Rain/S	OF AND SEC.	Cloud Cover	Cloud Height Height of cloud	Visibility
Site	G	-00		Calm Light a	r 1	>1 1.3	N NE	None Drizzle/I	Mist 1	In eighths e.g. 3/8	above average	Poor (<1km) 0 Moderate (1-3km) 1
Date	-	3/11/1-	7	Lightb			E SE	Light sh Heavy s	owers 2 howers 3	SCOUNTS ON	height of viewshed	Good (>3km) 2
Survey	L	الالا		Mod, b		7.55503	S SW	Lying :	ain 4	Frost	<150m 0 150-500m 1	
Observer	N,	in Ved		Strong	breeze 6	25-31	w			DANGEROUS VAN	>500m 2	
Start Time				Mod. g	pale 8	39-46	NW	None On site	0	None 0 Ground 1	Please be as acc	urate as possible, with
Finish Tin	ne			Strong		47-54 0 55-63		High gro	ound 2	Alday 2	not a range, e.g. \	mering only one figure WS - 5, not 5-6,
Sheet 1/	&[]&	Maps atta	ched	Storm	1	64-72					Use notes for ext E.g. WS - 5, gust	ra info. ing 6 [in notes].
Weather	Wind speed	Wind direction	Rain	Cloud	Cloud height	Visibility	Frost	Snow	Notes(e.g.	. temperatu	re)	12808
Hr 1	5	Nu	0	3/8	2	2	1	-	000			
Hr 2	4	NU	0	3/8	2	2	- 1		100			
Hr 3	4	W	0	418	2	7	0	-	100			
Hr4	5	U	0	3/8	2	2	0	_	200			
Hr 5	5	NJ.	0	2/8	2	2	0	_	3°C	Gusts	up to for	u 7
Hr 6	5	MM	0	4/8	2	2	0	_	5°C	EANT-S EAVE		
Hr 7	5	NJ	0	3/8	2	2	0	600	5°C			
Hr 8	5	NW	0	4/8	2	2	0	_	500			
Field Notes Maps att												
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RPS

Surveyor N. Vente

Start time.

End time

2017

\*Please attach weather sheet

Notes:



Legend

BBS/WWO survey boundary (250 m. buffer of route supplied 20170405 appended to previous boundary)

Pipe route (supplied 20170405)

Greater Dublin Drainage

Breeding/winter bird survey

Page 5 of 18

200 m

Scale: 1:7,500 (\$A3)

Date: 06/94/2017 | Job Not SEC7907

-Checked DRAFT Drawn: CH

Approved DRAFT est Natural Grid. BNG 29972

\* CrowStretFile: control to Reproduced Fair the Orphanic Salve, DOMand to formation of the Control to Lorse Fer. 3-3-34.

## GDD Oral Hearing Response to Inspector's Questions

### APPENDIX 6 SUMMER 2015 (APRIL AND JUNE)

The data from the April and June 2015 breeding walkover surveys were mapped, and are enclosed below (along with the associated survey recording sheets).

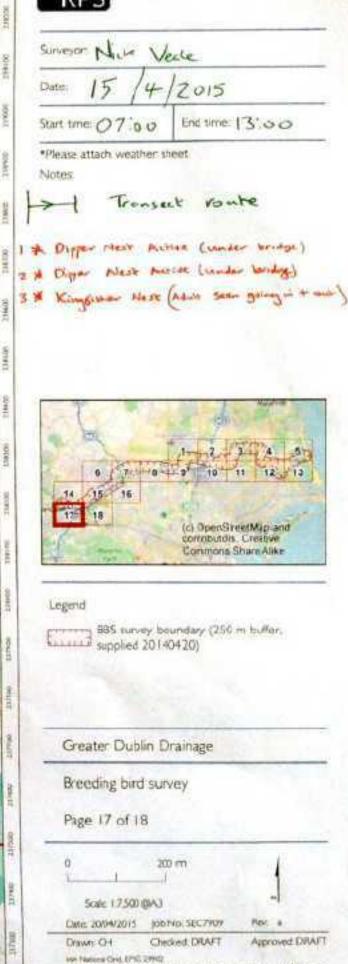
M-44529433-1 7

Site (		Calm 0 Light air 1 Light breeze 2 Gentle breeze 3 Gentle breeze 3				lort Mph 1-3 4-7 8-12 13-18	Direction  N NE E SE S	None Drizzler Light sh Heavy s	Mot 1 nowers 2 showers 3	Cloud Height Height of cloud above average height of viewshed <150m 0	Visibility Poor (<1km) 0 Moderate (1-3km) 1 Good (>3km) 2			
Observer	The second second	reeding B	_	Fresh breeze 5 19-24 Strong breeze 6 25-31			SW W	Lying	Snow	Frost	150-500m 1 >500m 2	212		
Start Time				Fresh	Mod.gale 7 32-38 NW N Fresh gale 8 39-46 O					None 0 Ground 1 All day 2	Please be as accurate as possible, with			
Finish Tin	The state of the s			Strong	gale 1	0 55-63		High gri	ound 2	All day 2	not a range, e.g. V Use notes for extr	NS - 5, not 5-6.		
Sheet 1/		Maps atta	ched	Storm	ne 1	1 64-72 2 73+				all Company	E.g. WS - 5, gusti	ng 6 (in notes).		
Weather	Wind speed	Wind direction	Rain	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Cloud height	Visibility	Frost	Snew	Notes(e.g	, temperatu	re)	DENIE S		
Hr 1 07:40	2	SW	0	6/8	2	2	0	0	6°C					
Hr 2 08:00	3	Sut	0	6/8	2	2	0	0	8°C					
Hr 3 croo	3	W	1	8/8	2	T/	0	0	8.0					
Hr 4 Jacop	42	U	0	8/8	2	2	0	0	900					
Hr 511:00	3	W	0	8/8	2	2	0	0	1100	A LOCAL				
Hr 6 12:00	2	W	2	8/8	2	2	0	0	1100					
Hr 7														
Hr 8		Marie Tall												

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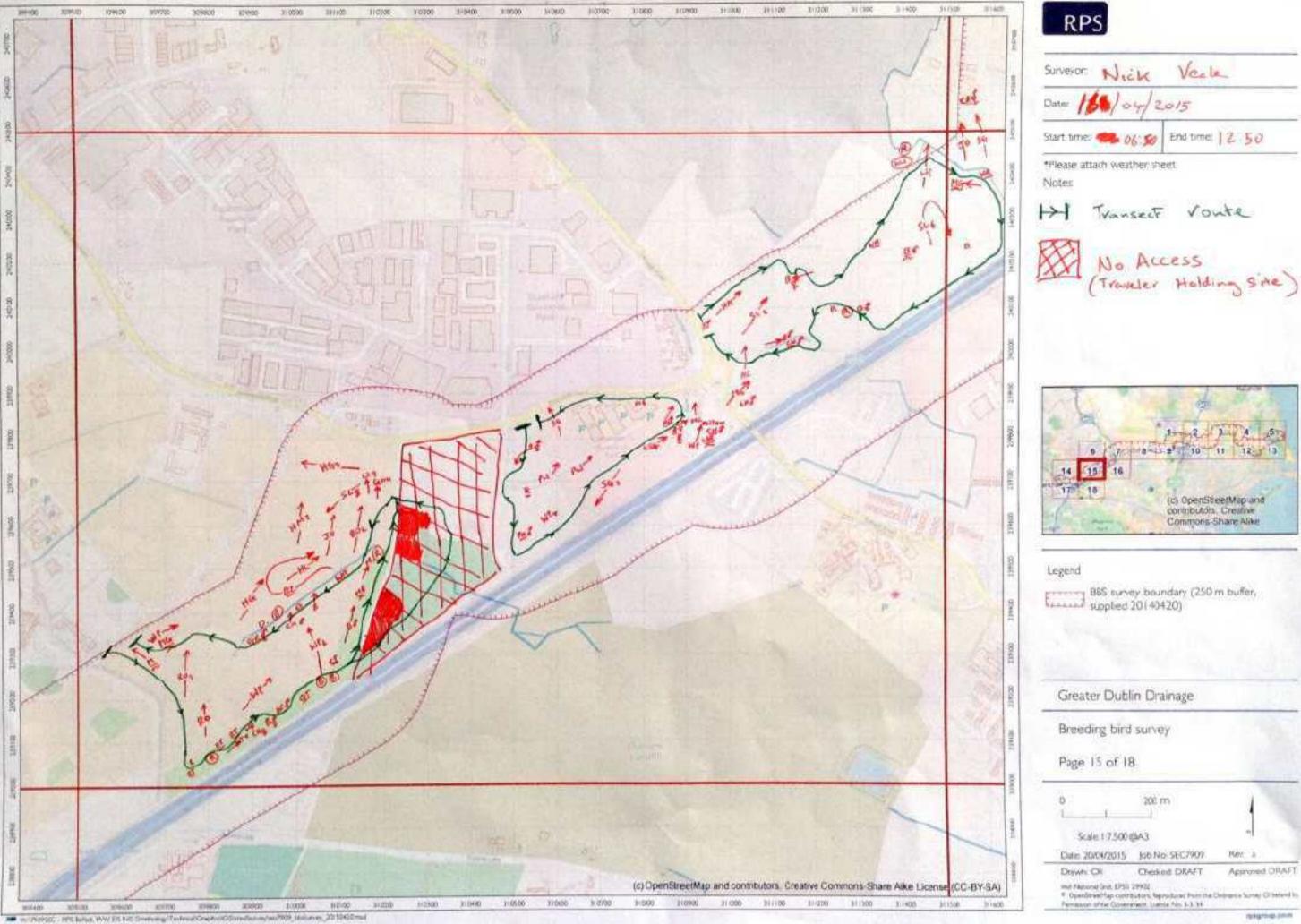






\* Opening this communities beginning from the Creater's Nove, Of Select to Fernance of the Government Lorenz No. 3.3.34

RPS	w	eather Sh	eet	Wind	Speed Beaut	ort Mph	Direction	Rain/S	inow	Cloud	Cloud Height Visibility Height of cloud Poor (< 1km) 0		
		00 04/20 reeding 8	15	Calm 0 >1 Light air 1 1-3 Light breeze 2 4-7 Gente breeze 3 8-12		N None NE Drizzle/Mist E Light showers SE Heavy shower S Heavy rain		nowers 2 showers 3	in eighths e.g. 3/8	above average neight of viewshed <150m 0	Poor (<1km) 0 Moderate (1-3km) 1 Good (>3km) 2		
	B	reeding 8	sirds	Fresh t		19-24	SW	Lying	- Andrews -	Frost	150-500m 1 >500m 2		
Observer	-	. Veale	-	Mod. g.	ale 7	32-38	NW	None	0	None 0	Particular Control	rate as nossible, with	
Start Time		6:50		Fresh gale 8 39-46 Strong gale 9 47-54				On site High gn		Ground 1 Ali day 2	Please be as accurate as possible, with weather details, entering only one figure.		
Finish Tin	ne   17	2:50					10		ONLESS IN	not a range, e.g. WS - 5, not 5-6. Use notes for extra info. E.g. WS - 5, gusting 6 [in notes].			
Sheet 1/	&[]	Maps atta	ched	Humca							E.g. WS - 5, gusti	g 6 [in notes].	
Weather	Wind	Wind direction	Rain	Cloud	Cloud height	Visibility	Frost	Snow		. temperatu	re)		
Hr 1 0650	2	E	0	7/8	2	2	0	0	4ºc				
Hr 20150	3	E	0	7/8	2	2	0	0	7°C				
Hr 3 08.50	3	E	0	6/8	2	2 2	0	0	7ºc				
Hr 407:50	3	E	0	5/8	2		0	0	9°C				
Hr 510-50	3	E	0	5/8	2	2	0	0	10°C				
Hr 6 1550	4	E	0	5/8	2	2	0	0	10°C		111111111111111111111111111111111111111		
Hr. 7 12.50													
Hr 8													
Field Notes Maps att													
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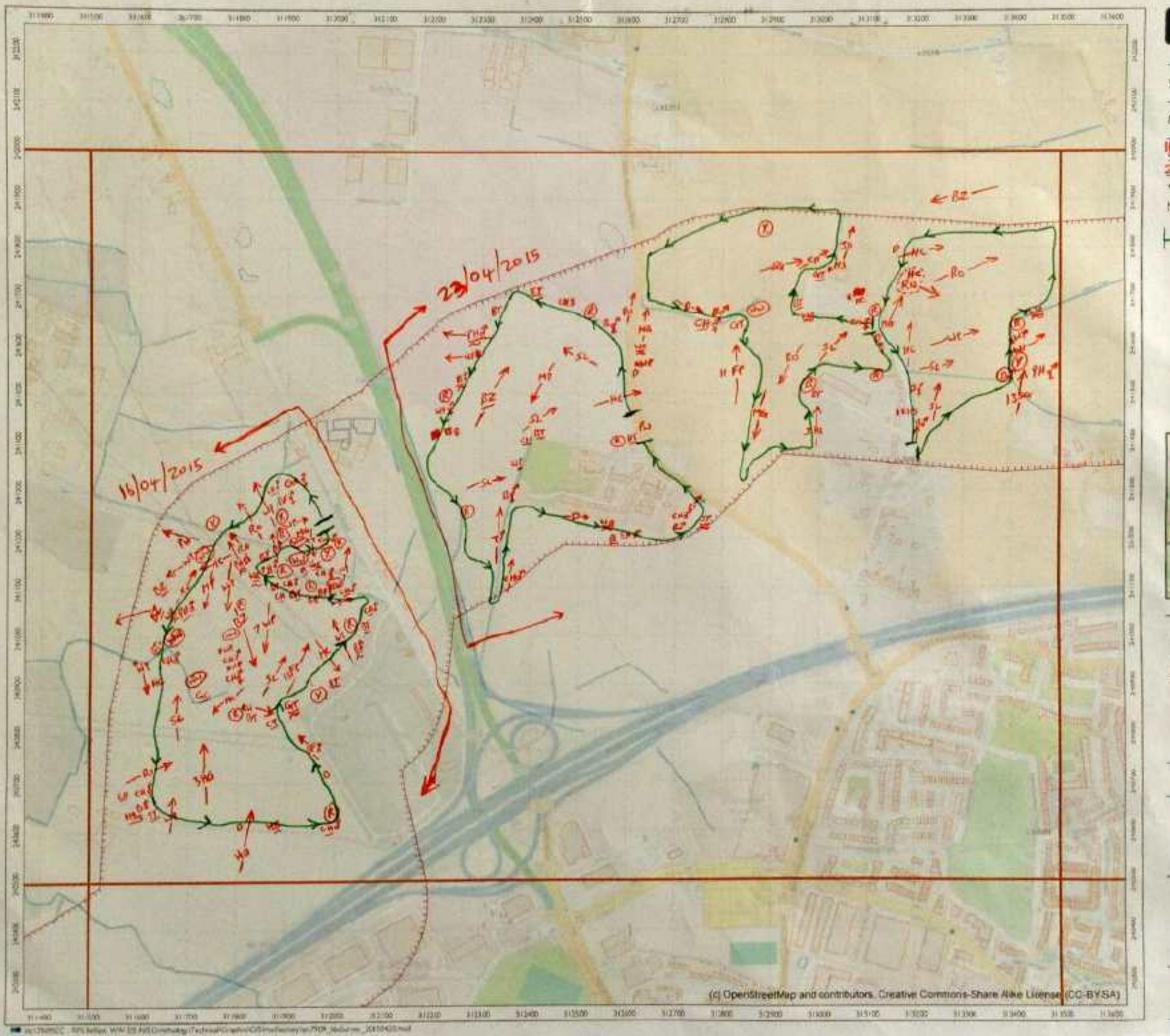


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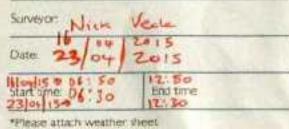
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OpenStreet\*ap contractors, Repulsions From the Delinguis Surray Chesterd to Personant of the Contractors, Useria No. 5-3-34

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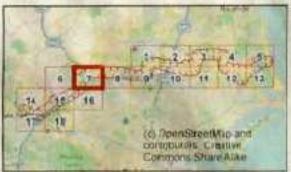




Note:



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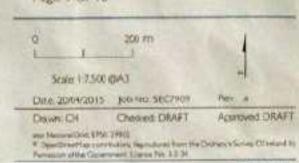
Lagord

BBS survey boundary (250 m buffer, supplied 20140420)

Greater Dublin Drainage

Breeding bird survey

Page 7 of 18



/94grmp.com

RPS	w	eather Sh	eet	Wind:	Speed Beaul	77	Direction	Rain/S		Cloud Cover	Cloud Height Visibility Height of cloud Provide 1km	Visibility Poor (<1km) 0	
Site	G	DO		Calm 0 >1 Light air 1 1-0			N NE	None Drizzle/	Mist 1	In eighths e.g. 3/8	above average height of	Moderate (1-3km) 1	
Date	The second second	3/04/2	015	Light be Gentle	reeze 2	4-7 8-12	E SE	Light showers 2 Heavy showers 3		viewshed Good (>3km)	Good (>3km) 2		
		rocking [		Mod. b	reeze 4	13-18 19-24	S	Lying:	ain 4	Frost	<150m D 150-500m 1	Dealer Street	
Observer	-	ick Veo	_	Strong	breeze 6	25-31	W			110000000	>500m 2		
Start Time		6:30	-	Mod.gale 7 32-38 N Fresh gale 8 39-46			NW	None On site	0	None 0 Ground 1	Please be as accu	rate as possible, with	
Finish Tir	-	230	Strong gale 9 47-54 Whole gale 10 55-63				High gri	ound 2	All day 2	weather details, entering only one figure, not a range, e.g. WS - 5, not 5-6.			
Sheet 1/	100	Maps atta	abad	Storm	1	1 54-72					Use notes for extra into. E.g. WS - 5, gusting 6 [in notes]		
Weather	Wind	Wind	Rain	Cloud	Cloud	Visibility	Frost	Snow	Notes(e.g.	temperatur	re)		
12.77	speed	direction		cover	height		0		8°C				
Hr 1 06:5%	0		D	0/4	2	2	-	0	-				
Hr 207.30	0		0	0/8	5	2	0.	0	10°C				
Hr3 ors	- 1	SE	0	0/8	2	7	0	0	13°C				
Hr 4 64:36	T.	SE	0	1/8	2	2	0	0	160€				
Hr 516.30	4	SE	0	1/8	2	2	0	0	11'c				
Hr 611:30	1	SE	0	1/8	2	2	0	0	17-6				
Hr 7 12-50	2	5	0		2	2			18°C				
Hr 8	2	5	0										
Field Notes Maps att													
For office use Initial AND da boxes		Logged		Databa	se Enter	ed Da	atabase \	/alidated	GIST	Intered	GIS Val	idated	



Surveyor Nick Veale

Start time: 06:30

End time:

\*Please attach weather sheet.



No Access Read left numerous messages, use



Legend

BRS survey boundary (250 m buffer, supplied 20140420)

Greater Dublin Drainage

Breeding bird survey

Page 8 of 18

200 m

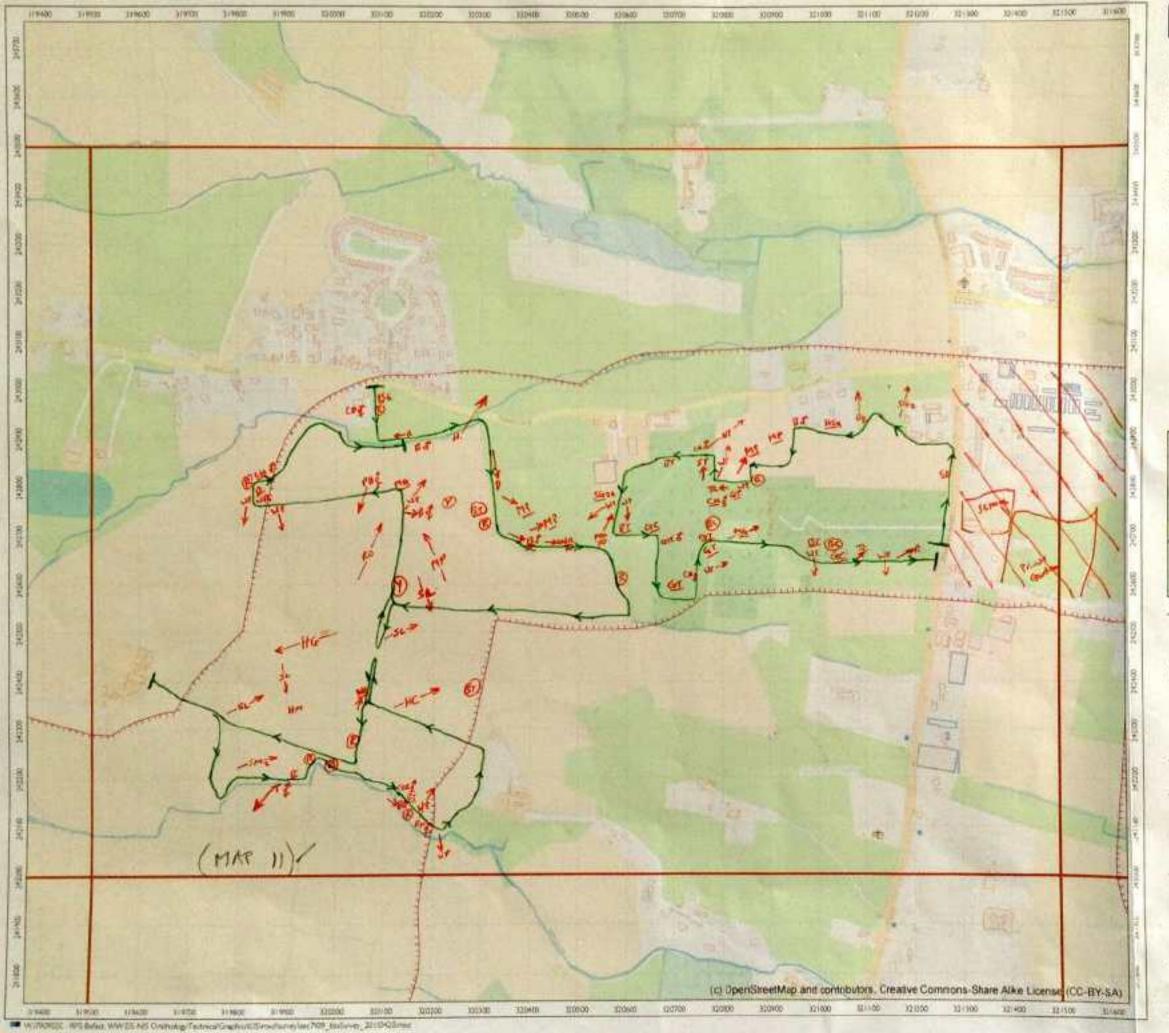
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Din:: 20/04/2015 | job No: 5EC7909 Approved DIVALT Drawn Of Checked DRAFT

And Place on Grad, \$750, 2090).

\* Opening sething continuous a Representation from the Computer's Service for Parameters of the Government of the Government Service State 5.1.14.

RPS		eather Sho	eet	Wind Speed  Beaufort Mph Calm 0 >1			Direction N	Rain/S None	0	Cloud Cover in eighths	Cloud Height Height of cloud above average	Poor (<1km) 0 Moderate (1-3km) 1	
The second secon		00		Light a	reeze 2	1-3 4-7	NE E	Light sh	owers 2	e.g. 3/8	height of viewshed	Good (>3km) 2	
Date		4 04/20		Gentle Mod. b	breeze 3 reeze 4	8-12 13-18	SE	Heavy s	howers 3 air 4		<150m 0	Marine Control	
Survey	100	reading 13	ids	Fresht		19-24 25-31	sw w	Lying !	Snow	Frost	150-500m 1 >500m 2		
Observer	N	. Veals		Mod. g	ale 7	32-38	NW	None	0	None 0		urate as possible, with	
Start Time	0	6:30		Fresh		39-46 47-54		On site High gre	ound 2	Ground 1 All day 2	weather details, e	ntering only one figure.	
Finish Tin	ne 1	2:30		Whole gale 10 55-63			riigii gi sono				not a range, e.g. WS - 5, not 5-6. Use notes for extra info.		
Sheet 1/	&[ ]&	Maps atta	ched	Storm							E.g. WS - 5, gusti	ng 6 (in notes)	
Weather	Wind speed	Wind direction	Rain	Cloud	Cloud height	Visibility	Frost	Snow	Notes(e.g	. temperatui	re)		
Hr 10630	3	W	0	3/8	2	2	0	0	500			The same of the sa	
Hr 207.50	4	W	0	3/8	2	2	0	0	700				
Hr 30830	4	SW	0	4/8	2	2	0	0	8°C		Control of the last of the las		
Hr 409:30	3	SW	0	2/8	2	2	0	0	10°C				
Hr 510:30	3	SW	0	2/8	2	2	0	0	150				
Hr 611:30	2	SE	0	2/8	2	2	0	0	13°C				
Hr7							-						
Hr 8												TECHNOLOGY TO THE	
Field Notes Maps att													
For office use only. NB- Logged Initial AND date ALL boxes.			Databa	se Enter	ed D	atabase '	Validate	d GIS	Entered	GIS Va	lidated		



# RPS

Nich Veals 2015 End time: Start time:

\*Please attach weather sheet

Notes:

> Transcet Route



B05 survey boundary (250 m buller, supplied 20140420)

Greater Dublin Drainage

Breeding bird survey

Page 3 of 18

200 m. Scale 17500 (MA)

Date 20/04/2015 | 15th No. SEC2909

Drawn CH Checked DRAFT

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\* OpenSpread to protect Authorize Reproduced from the Centrality Service School Citization (Citization) Authorized School Spread (Citization) Authorized School Spread (Citization) Authorized School Spread (Citization) Authorized School Spread (Citization)

Approved DRAFT



## RPS

Surveyor Nia Veck 24/04/2015 End time: Start time

\*Please attach weather sheet

Notes



BBS survey boundary (250 m buffer, supplied 10140420)

Greater Dublin Drainage

Breeding bird survey

Page 4 of 18

200 m Scale: 17500-(5A) Date 20/04/2015 | Job No: SEC/909 Approved DRAFT

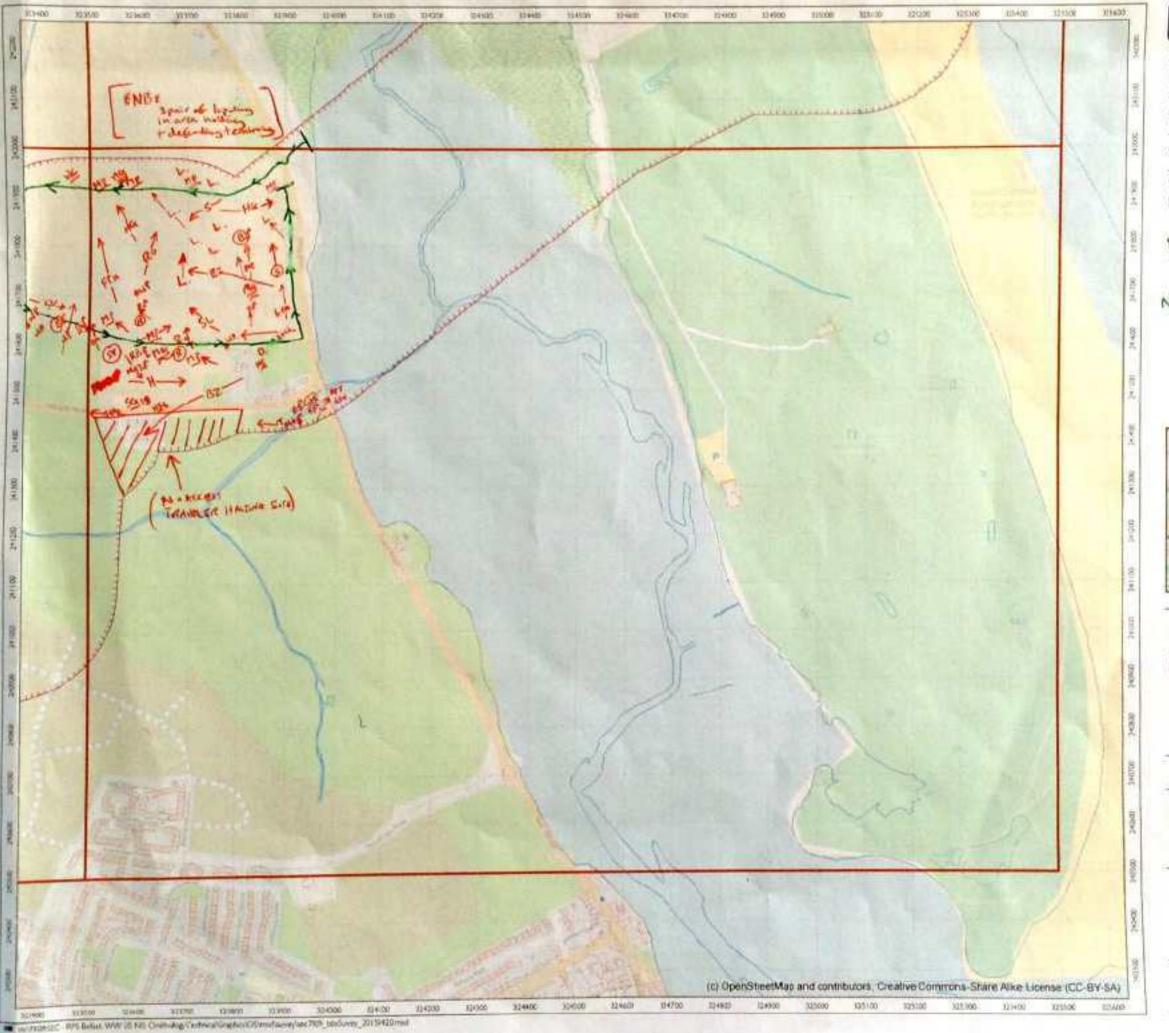
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RPS	W	eather She	eet	Wind :	Speed Beaut	ort Mph	Direction	Rain/S		Cloud	Cloud Height Visibility Height of cloud Poor (<1km)		
Date		7/04/7		Calm Light at Light or Gentle Mod. or	eeze 2 breeze 3	51 1-9 4-7 8-12 13-18	N NE E SE S	None 0 Drizzle/Mist 1 Light showers 2 Heavy showers 3 Heavy rain 4	In eighths e.g. 3/8	above average reight of viewshed <150m 0	Poor (<1km) 0 Moderate (1-3km) 1 Good (>3km) 2		
Survey	-	55 Helu		Fresh t Strong	reeze 5	19-24	SW	Lying :		Frost	150-500m 1 >500m 2		
Observer	14	ick Ve.	ile	Mod. g	ale 7	32-38	W NW None 0			None 0		urate as possible, with	
Start Time	e 0	532		Fresh g Strong		39-46 47-54	4,440	On site	ound 2	Ground 1 All day 2	weather details, e	intering only one figure	
Finish Tir	me   12	132		Whole gale 10 55-63 Storm 11 64-72			Transfer and the second				rot a range, e.g. WS - 5, not 5-6. Use notes for extra info.		
Sheet 1/	&[ ]	Maps atta	ched	Hurrica							E.g. WS - 5, gusting 6 [in notes]		
Weather	Wind speed	Wind direction	Rain	Cloud	Cloud height	Visibility	Frost	Snow	Notes(e.g	. temperatui	re)		
Hr 1	3	SW	0	2/8	2	2	0	0	300				
Hr 2	4	W	0	3/8	2	2	0	0	4°C				
Hr3	5	W	2	4/8	7	2	0	0	700				
Hr 4	5	u	0	4/8	2	2	0	0	7°C				
Hr 5	4	W	0	5/8	2	2	0	0	10°C				
Hr 6	4	W	23	5/8	2	1	9	0	10°C				
Hr 7		1											
Hr 8				FOLL									
Field Notes Maps at													
For office us Initial AND d boxes.		Logged		Databa	se Enter	ed D	atabase 1	Validate	d GIS	Entered	GIS Va	lidated	





## RP5

Start time: 06:32 Enctime: 12:32

\*Please attach weather sheet

Votes:

-> Transact Fourte

NB Travel continued on May (1)



Legend

BBS survey boundary (250 m buffer, supplied 201 40420)

Greater Dubin Drainage

Breeding bird survey

Page 13 of 18

0 200 m Solle: 17,500 BA3

Date: 20/04/2015 | Job No. SECTFOY | Rev. a

Drawn CH | Checked DRAFT | Approved DRAFT

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† OpenStreetStap commissions, Reproduced thorn the Chongras Survey, Crismand to Fernance Africa Conserveers, Lorent No. 3-3-39.

Helping tem





survoy Nick Vedu

Date 27/04/2015

Start time 06:32

End time 12:37

\*Please attach weather theet

Notes:

Transect Route



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B35 survey boundary (250 m buffer, supplied 20140420)

Greater Dublin Drainage

Breeding bird survey

Page 12 of 18

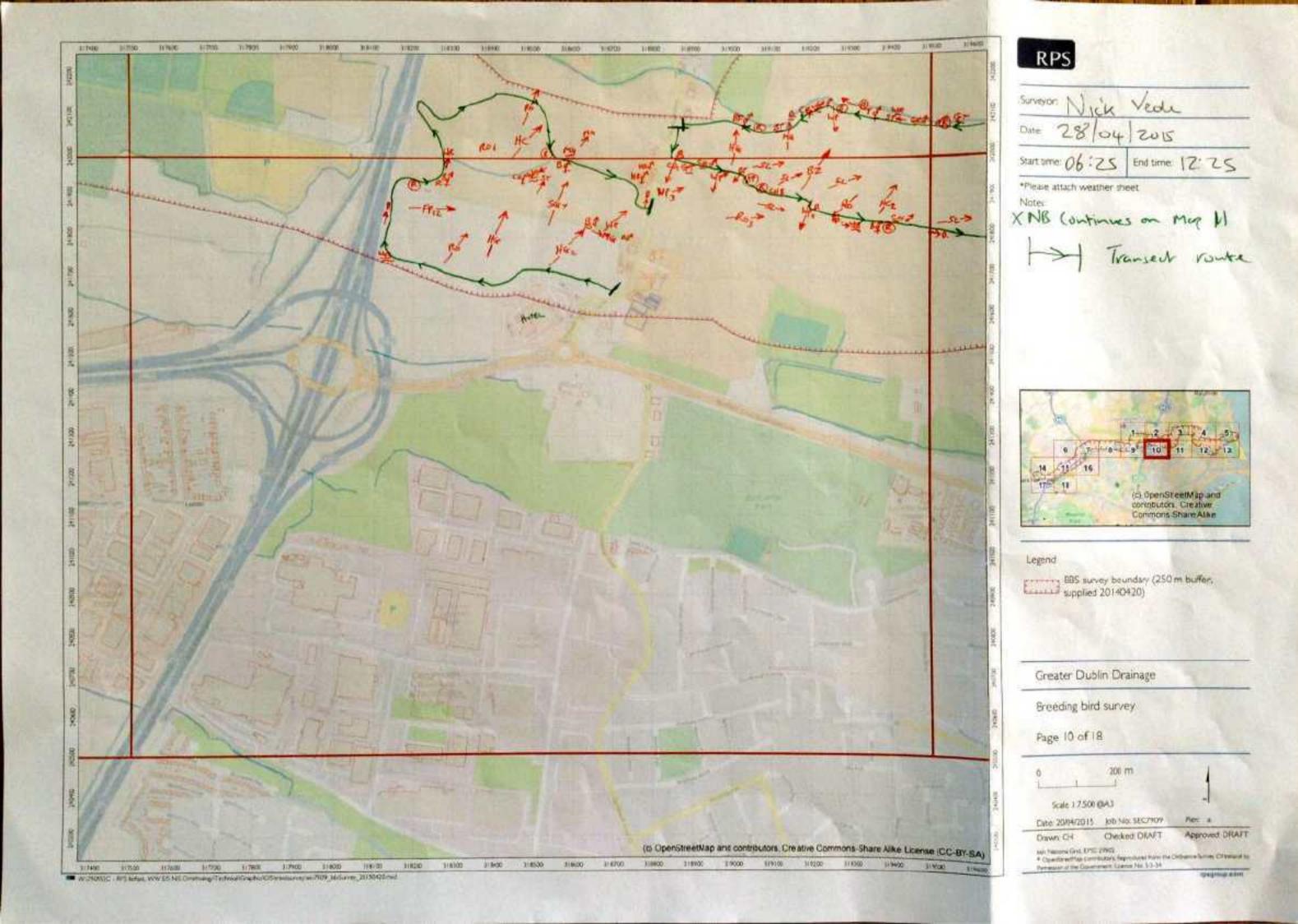
200 m Scale 17,500(BA)

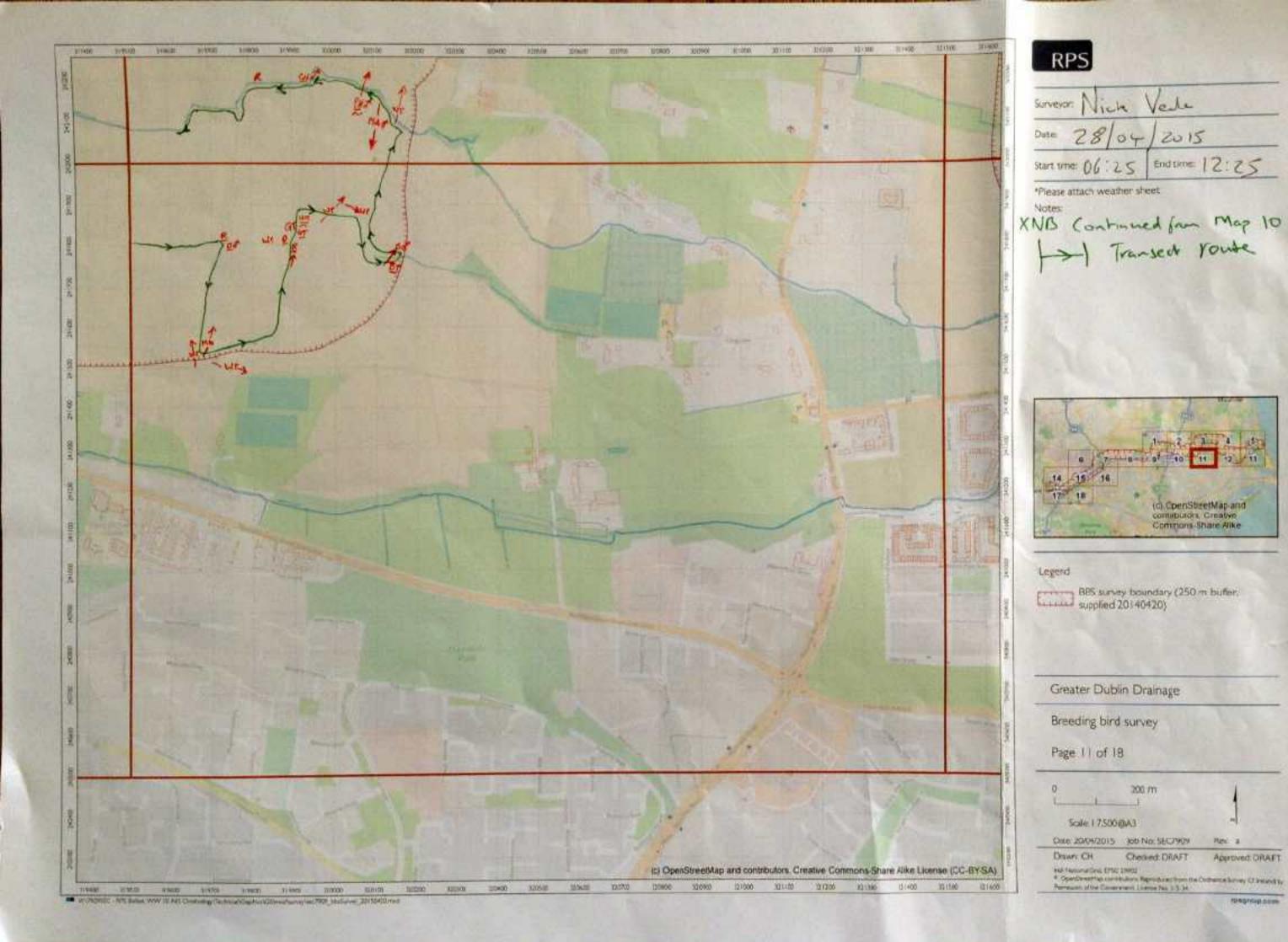
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min Personal Cris. EPIC 2990).

† OpenConethias controllors, Reproduced from the Distributes Sones, Officerand to Removae of the Economics. Distribute No. 8,8,34.

RPS	We	eather She	eet	Wind 5	Speed Beaul		Direction	Rain/S		Cloud	Cloud Height Height of cloud	Visibility	
Site	G	00		Caim 0 >1 Lightuir 1 1-3		N NE	None Drizzle/	Mst 1	In eighths e.g. 3/8	above average height of	Poor  <1km) 0 Moderate (1-3km) 1		
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SEADLISH VOICE



# RPS

Surveyor N. JEALE

Date 28/04/2015

Start time: 06: 25 | End time: 17:25

\*Please attach weather sheet

Notes



Legend

RBS survey boundary (250 m buffer, supplied 20140420)

Greater Dublin Drainage

Breeding bird survey

Page 1 of 18

0 200 m 1 1 1 Scale 17500 (\$A3) Date: 2094/2015 | (60-Nex SEC7909

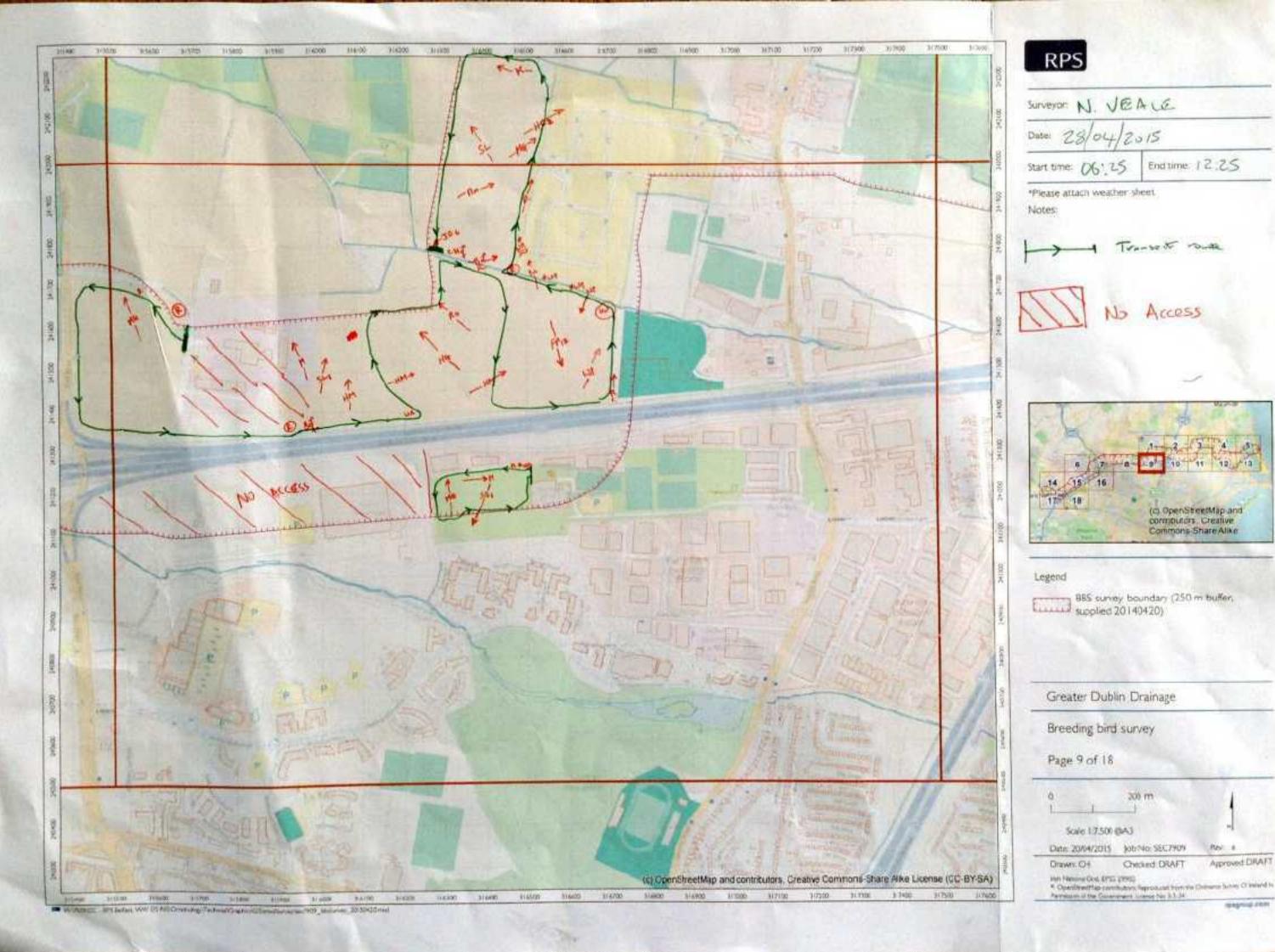
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SUNDYOF N. VEAUE

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Start time: 06:25 End time: 12:25

\*Please attach weather sheet

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885 survey boundary (250 m buffer, supplied 20140420)

Greater Dublin Drainage

Breeding bird survey

Page 2 of 18

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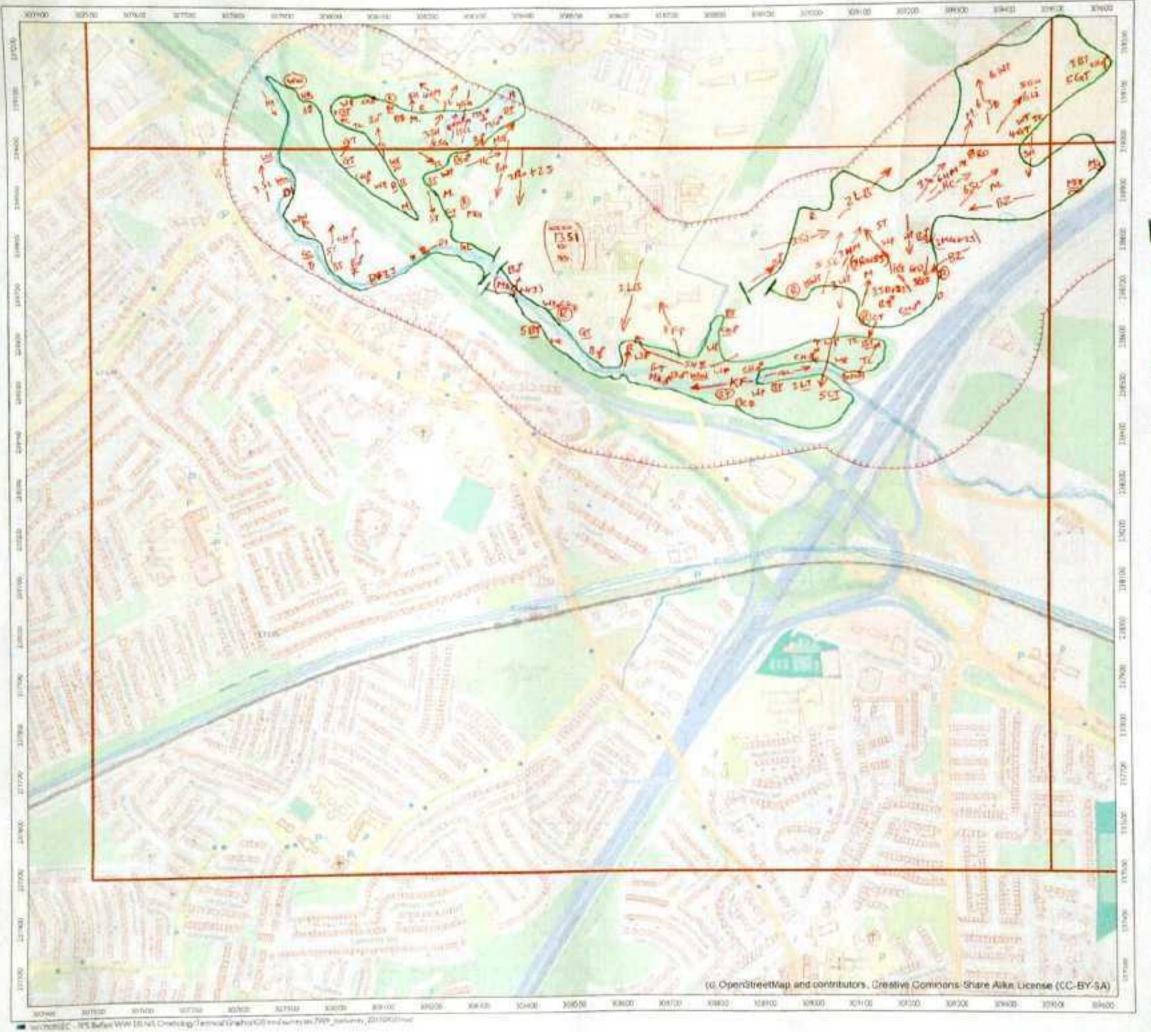
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\*Please attach weather meet

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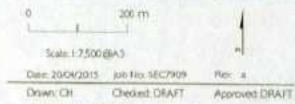
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Greater Dublin Drainage

Breeding bird survey

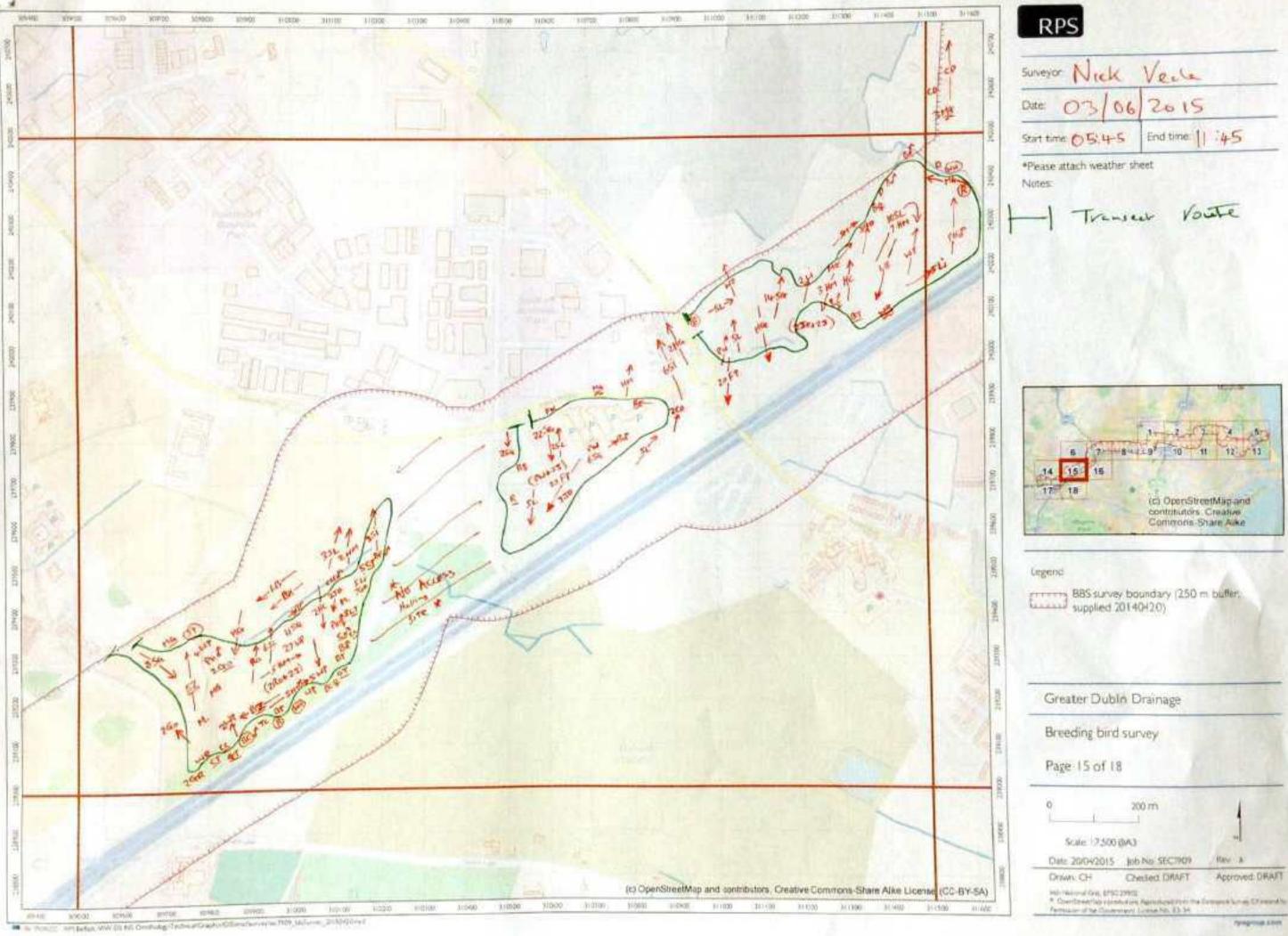
Page 17 of 18

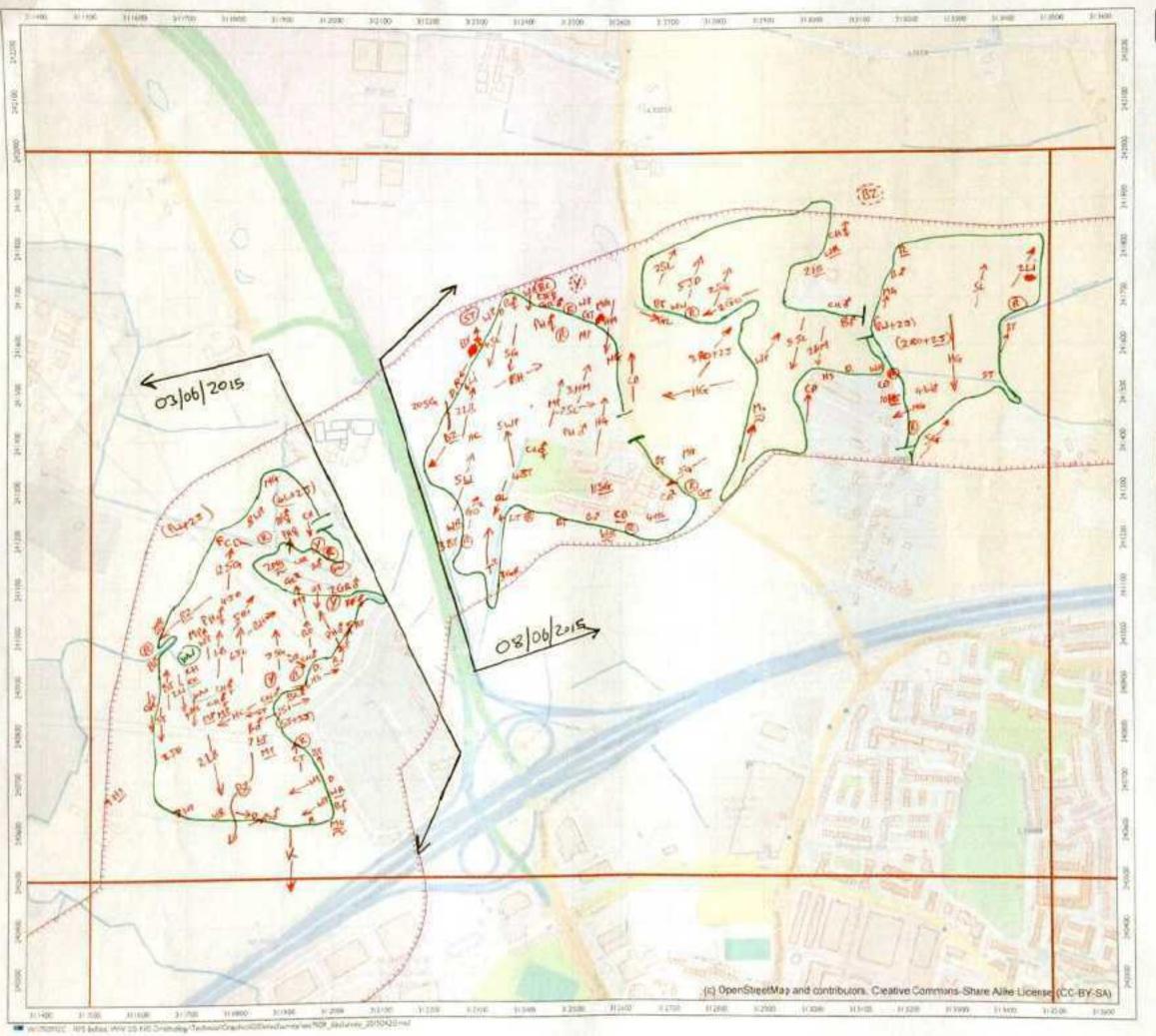


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Surveyor N. Venta Date: 03 06 2015 + 08 06 2015 62 04 Lus - 05 us 11105 Start time: 05 30 11:30

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885 survey boundary (250 m buffer, supplied 20140420)

Greater Dubin Drainage

Breeding bird survey

Page 7 of 18

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Surveyor Nick Vedle Date 08/06/2015 Start time: 05:30 End time: 11:30

\*Please attach weather sheet Notes:



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BB5 survey boundary (250 m buffer, supplied 10140420)

Greater Dublin Drainage

Breeding bird survey

Page 8 of 18

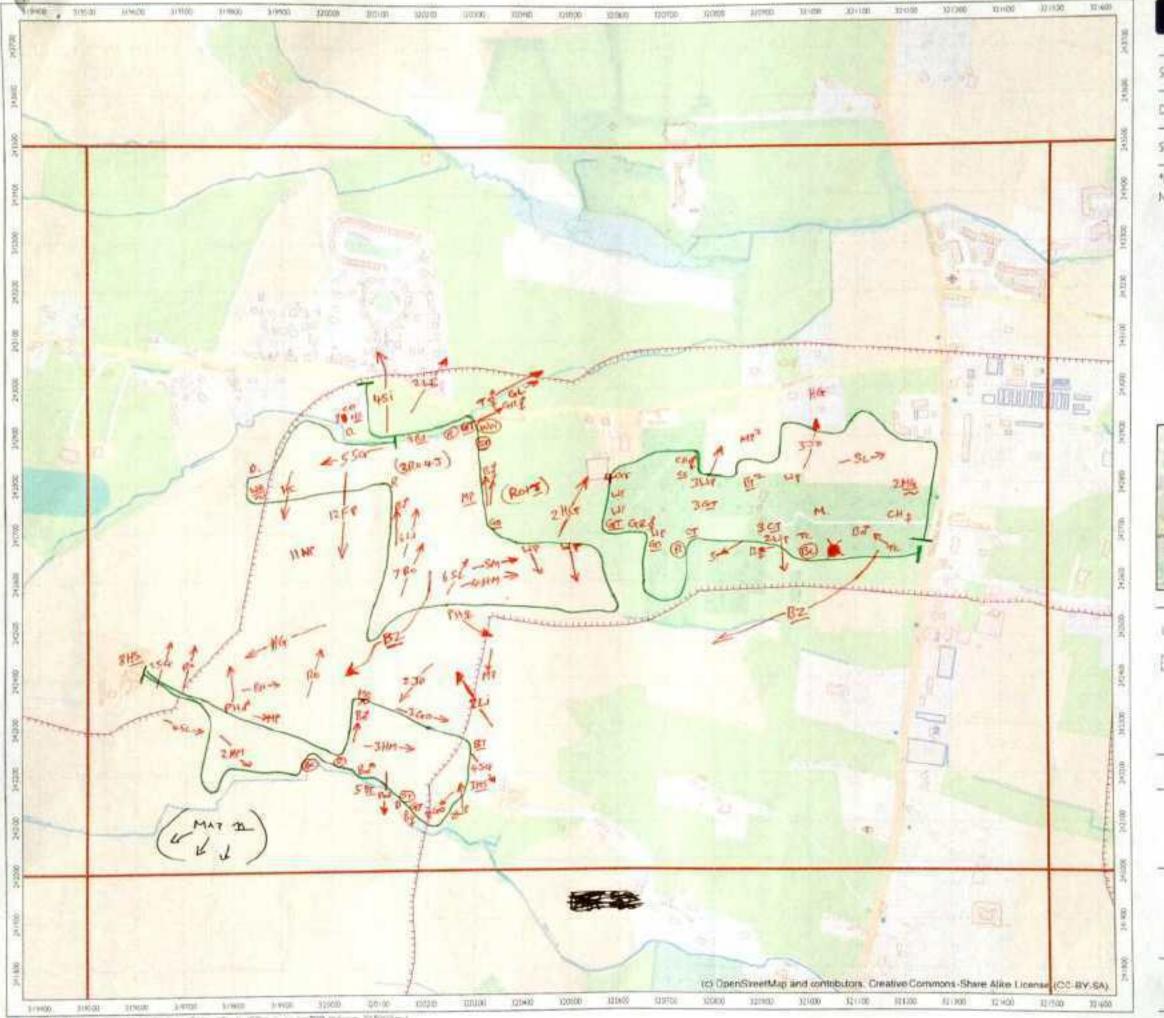
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BBS survey boundary (250 m buffer, supplied 20140420)

Greater Dublin Drainage

Breeding bird survey

Page 3 of 18

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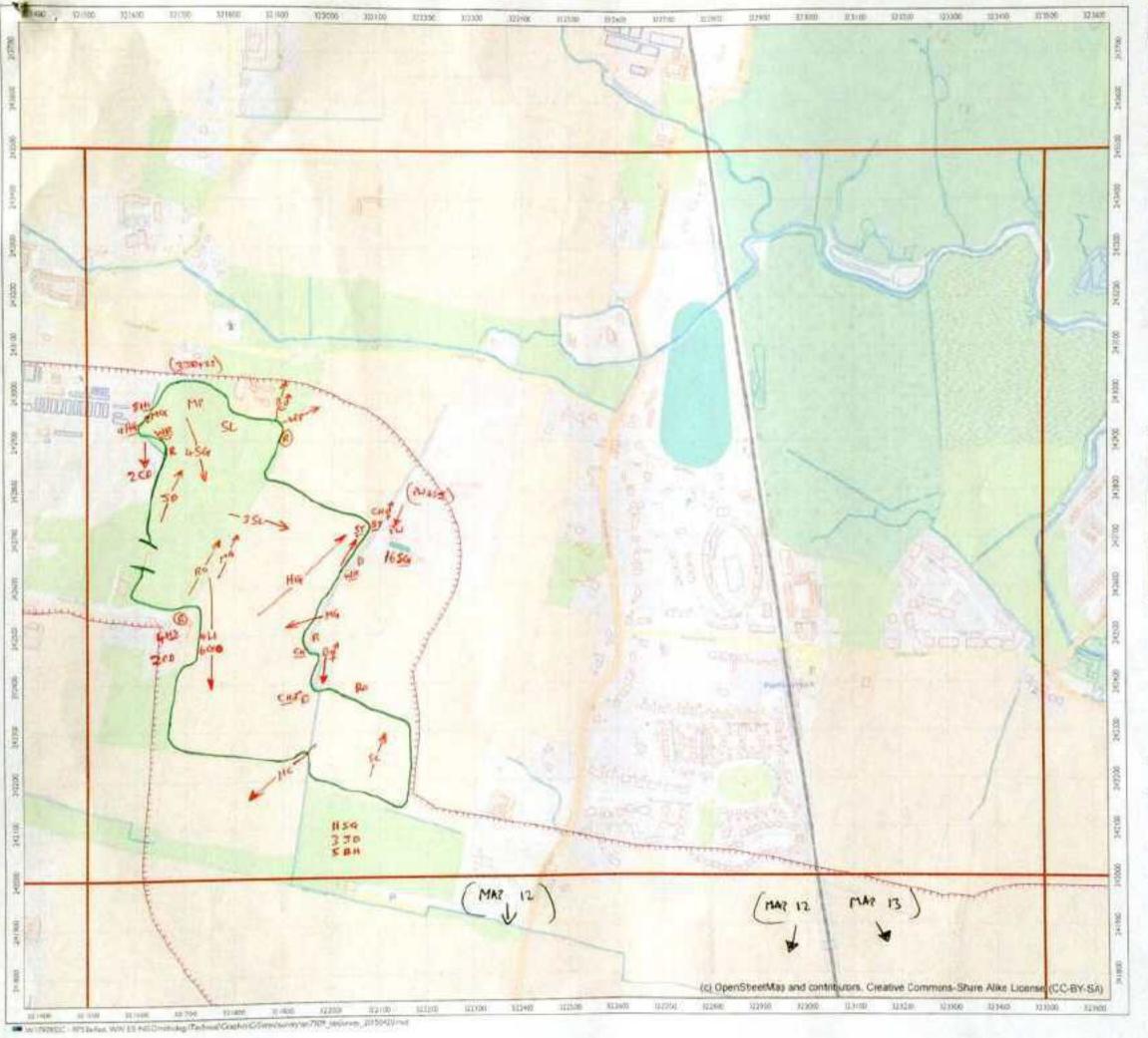
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Surveyor: N. Vede

Date: 10 06 2015

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885 survey boundary (250 m buffer, supplied 20140420)

Greater Dublin Drainage

Breeding bird survey

Page 4 of 18

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Surveyor Nick Veals

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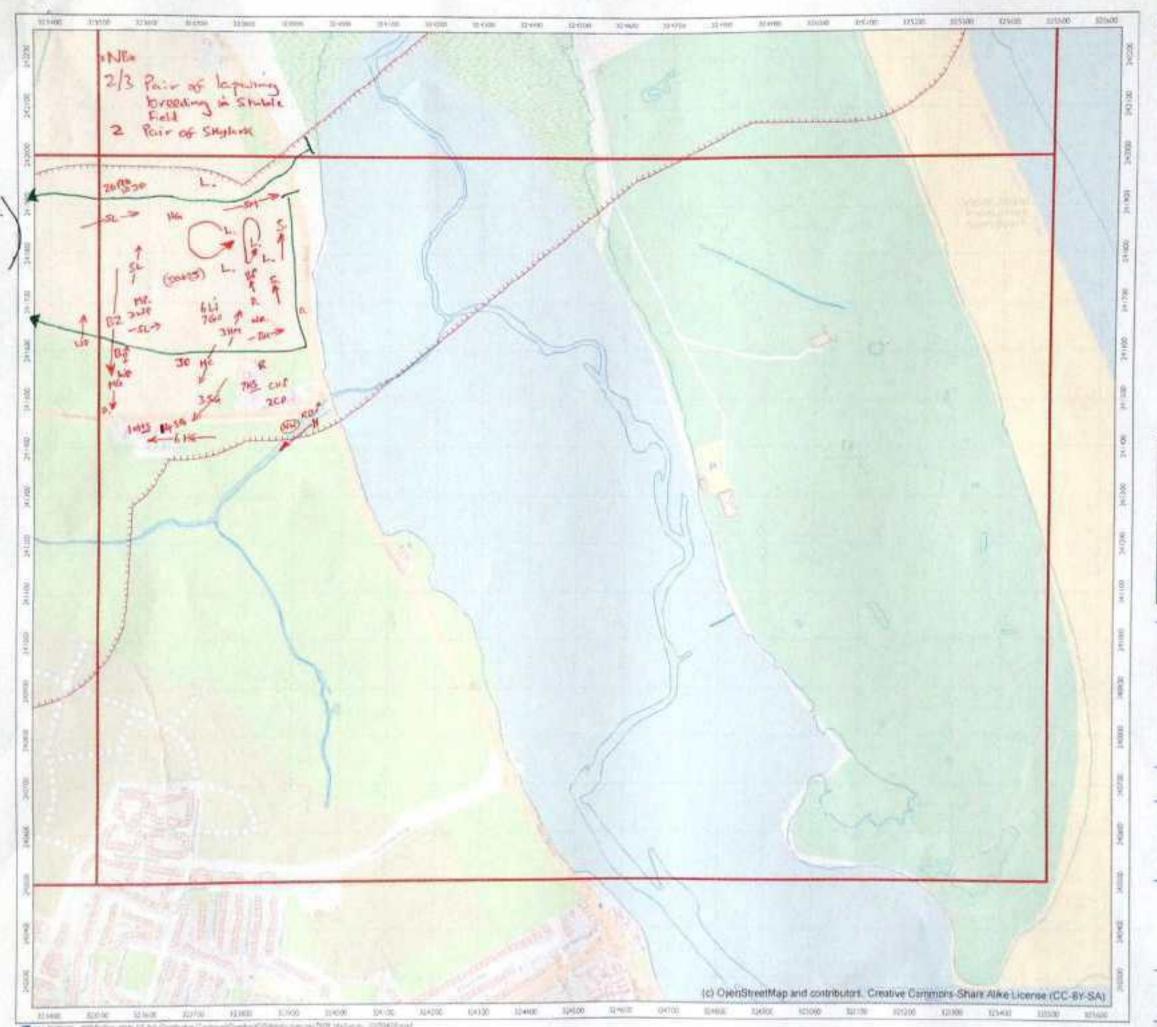
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BBS survey boundary (250 m buffer, supplied 20140420)

Greater Dublin Drainage

Breeding bird survey

Page 13 of 18

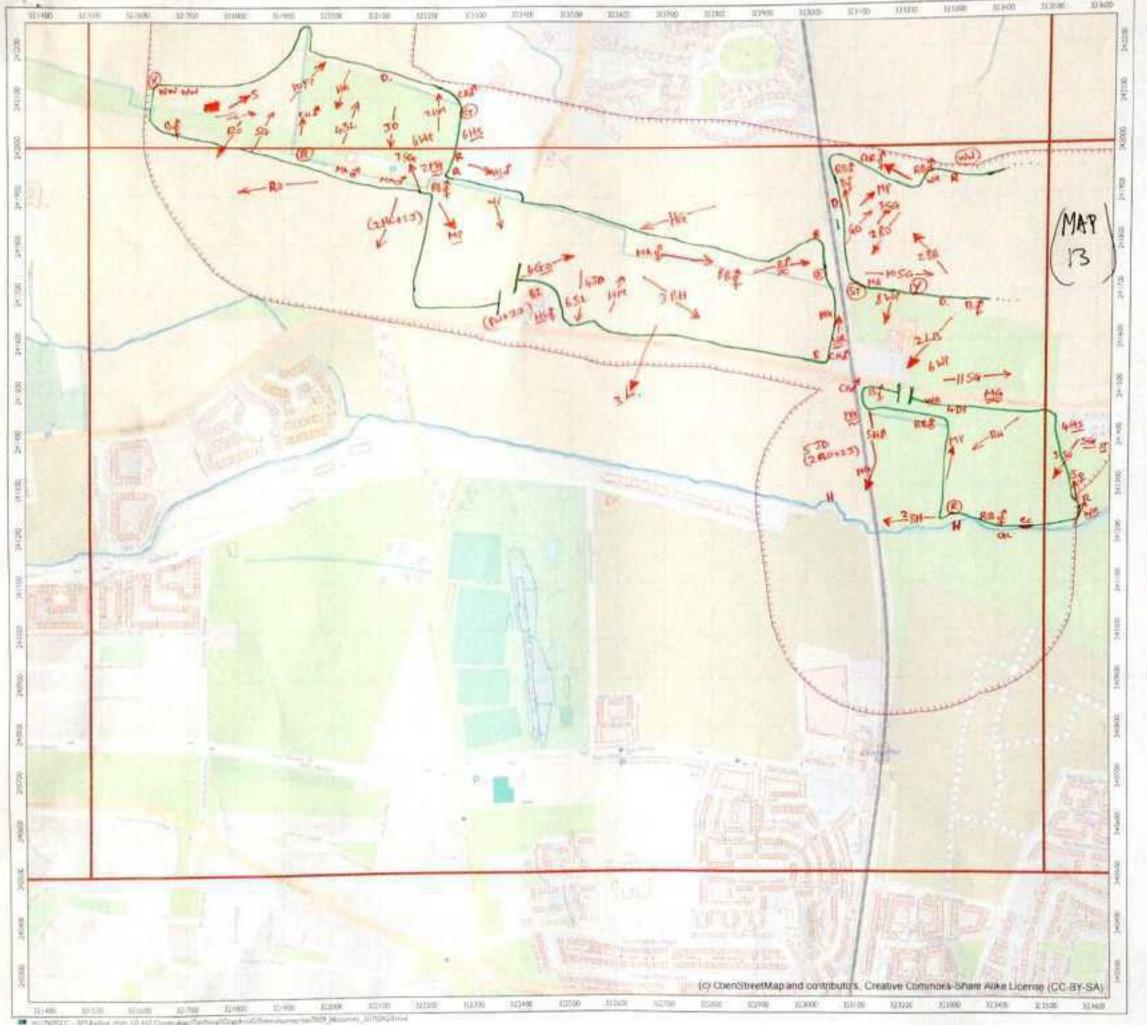
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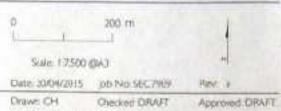
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Greater Dublin Drainage

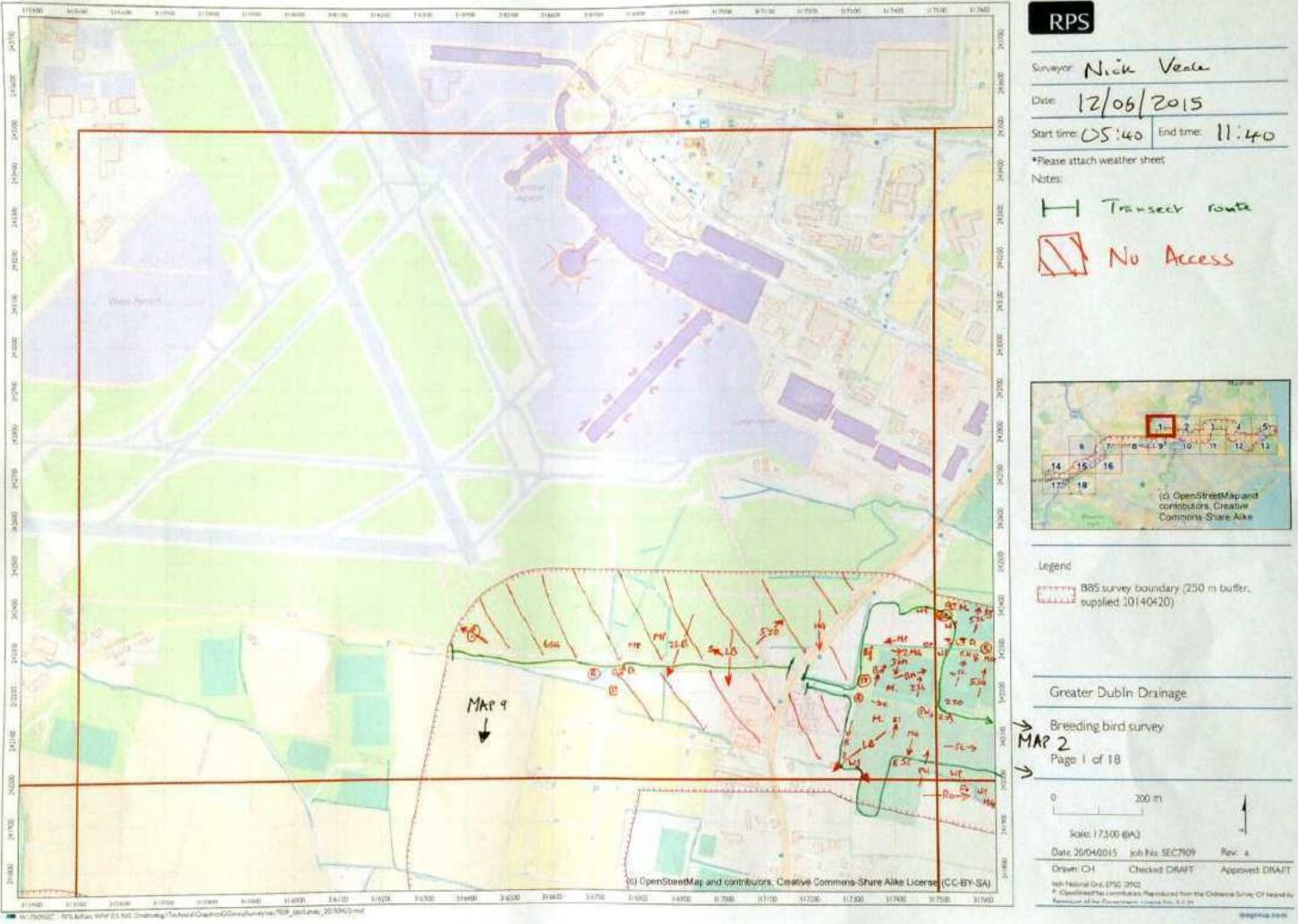
Breeding bird survey

Page 12 of 18

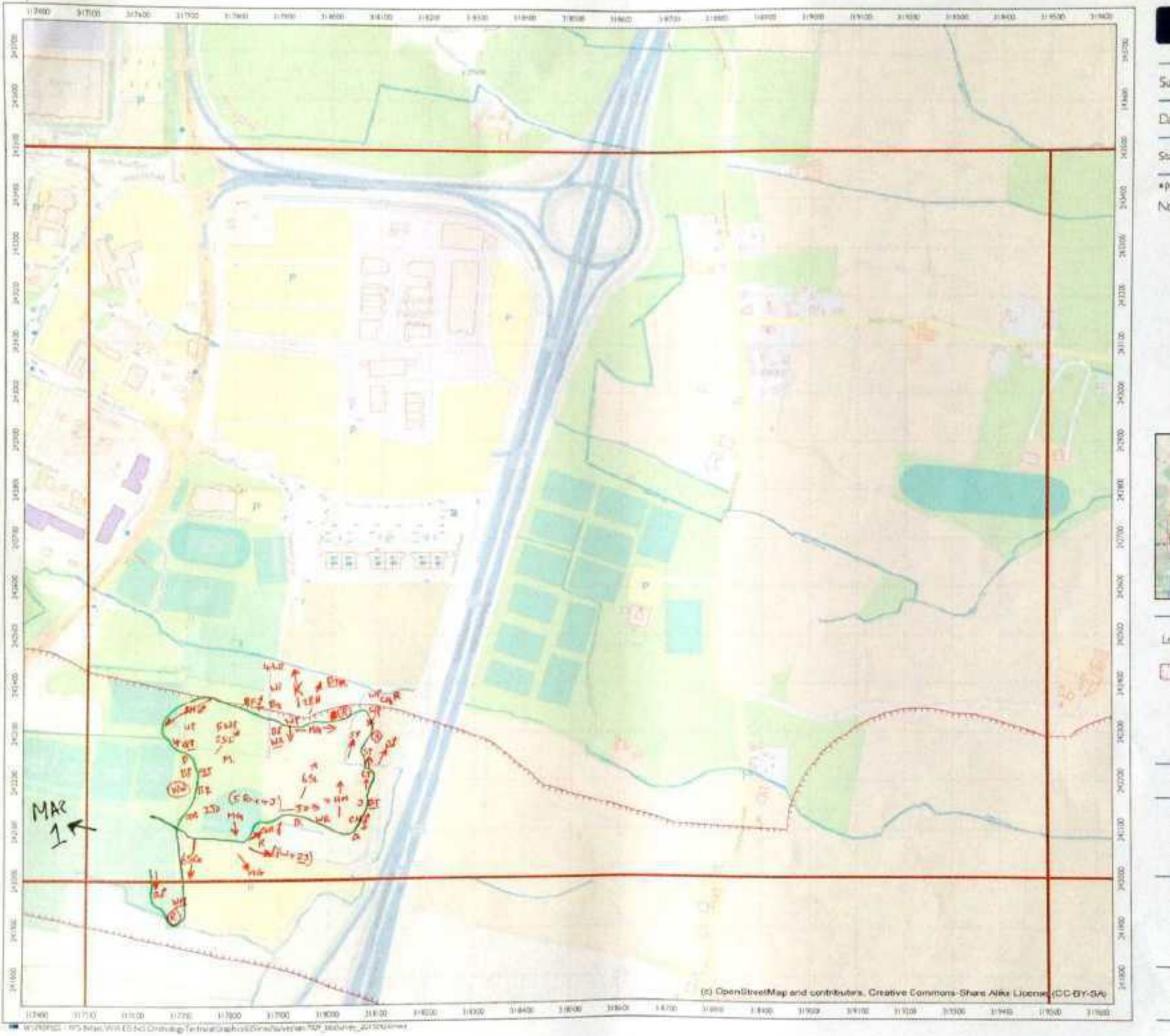


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Surveyor N Veale Date: 12/06/2015 Start time: 0540 End time: 11:40

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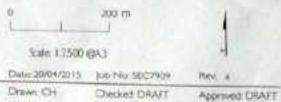
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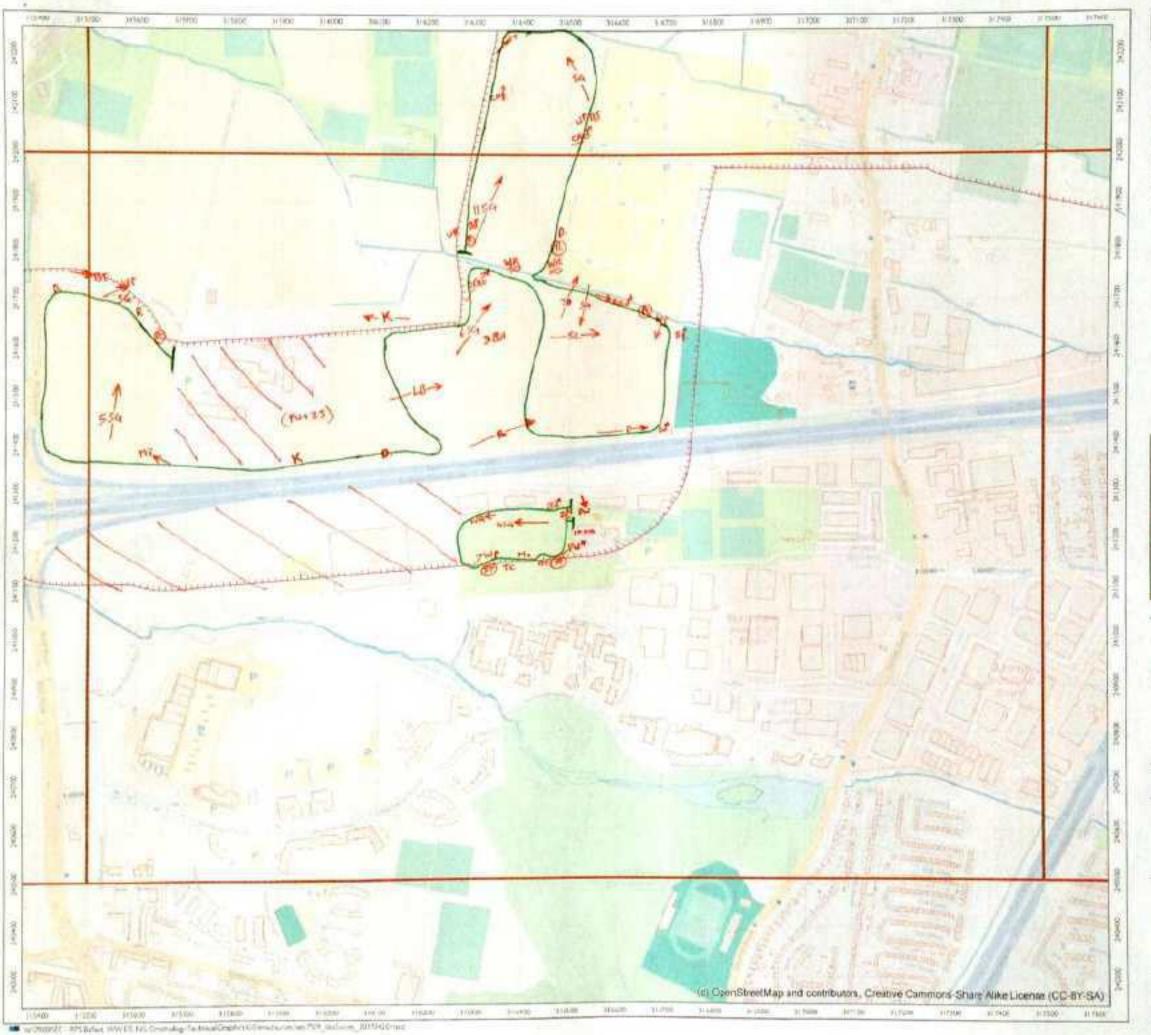
Breeding bird survey

Page 2 of 18



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Date:

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BBS survey boundary (250 m buffer, supplied 20140420)

Greater Dublin Drainage

Breeding bird survey

Page 9 of 18

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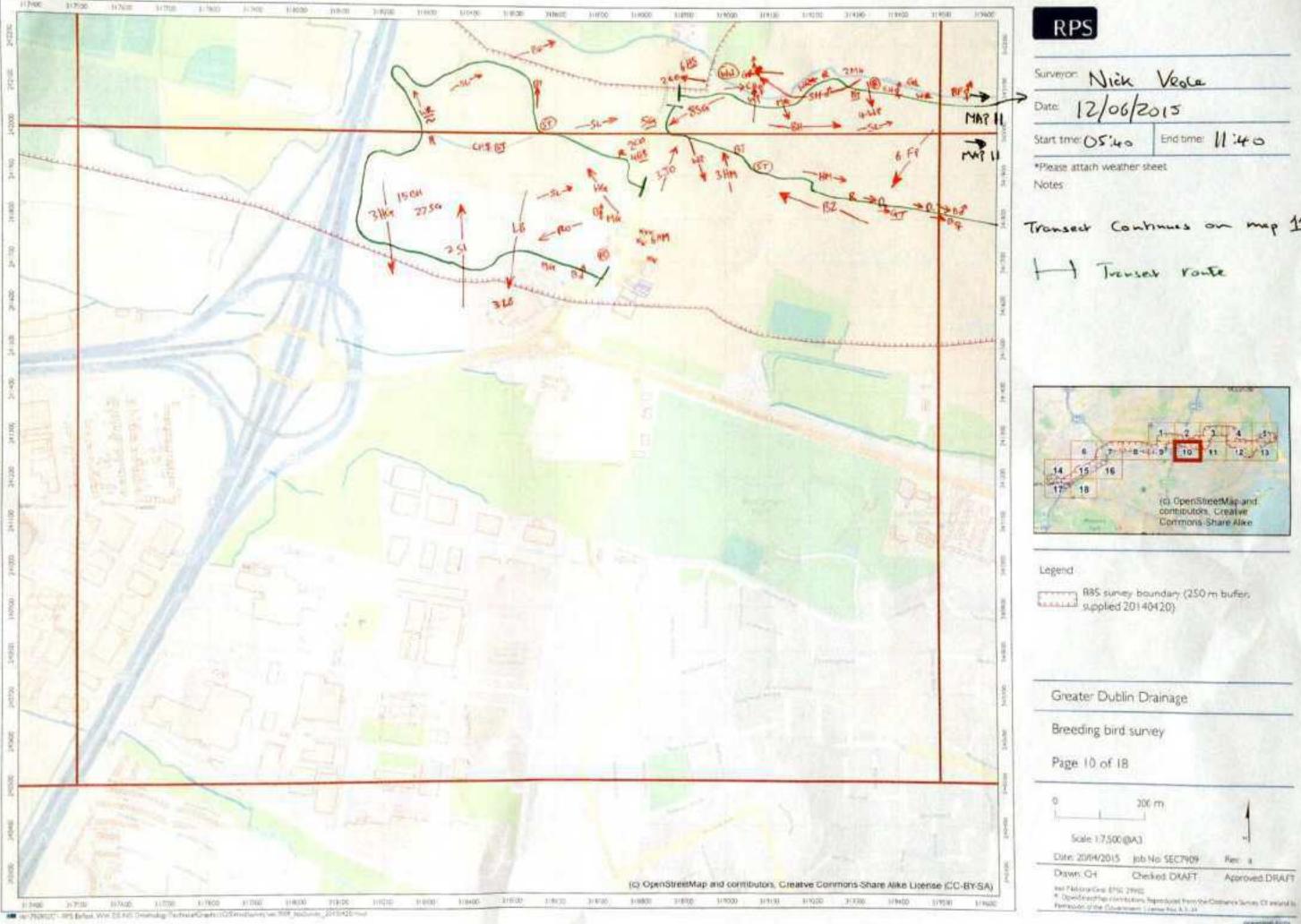
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Approved DRAFT

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885 survey boundary (250 m bufer, supplied 20140420)

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Greater Dublin Dranage Breeding bird survey Page | 1 of 18 200 m Scale: 1.7500 (0A3) Date: 20/04/2015 | 6/0 Nor SECTION Drawe CH Checked DRAFT Approved DRAFT man Newson Cord BTNC 20102.

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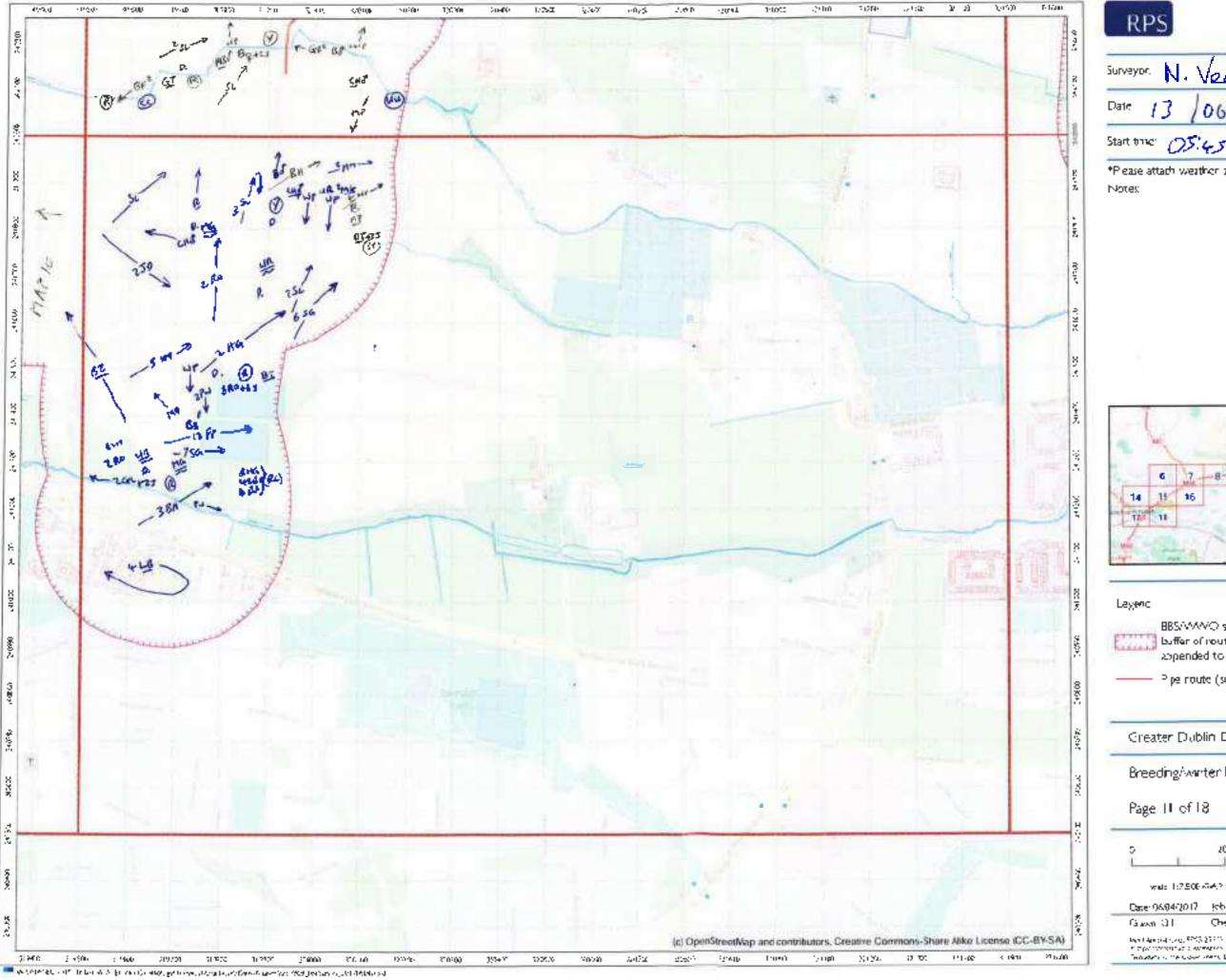
# GDD Oral Hearing Response to Inspector's Questions

# APPENDIX 7 SUMMER 2017 (MAY AND JUNE)

The data from the May and June 2017 summer walkover surveys were mapped, and are enclosed below (along with the associated survey recording sheets).

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A P.	¥	Weather Sheet	Æ	Wind Spead	page		Direction	RainSnow	MO	Cond	Cloud Height	Yisibility
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BBS/VAVO survey boundary (250 m. buffer of route supplied 20170405 appended to previous boundary).

Pipe route (supplied 20170405).

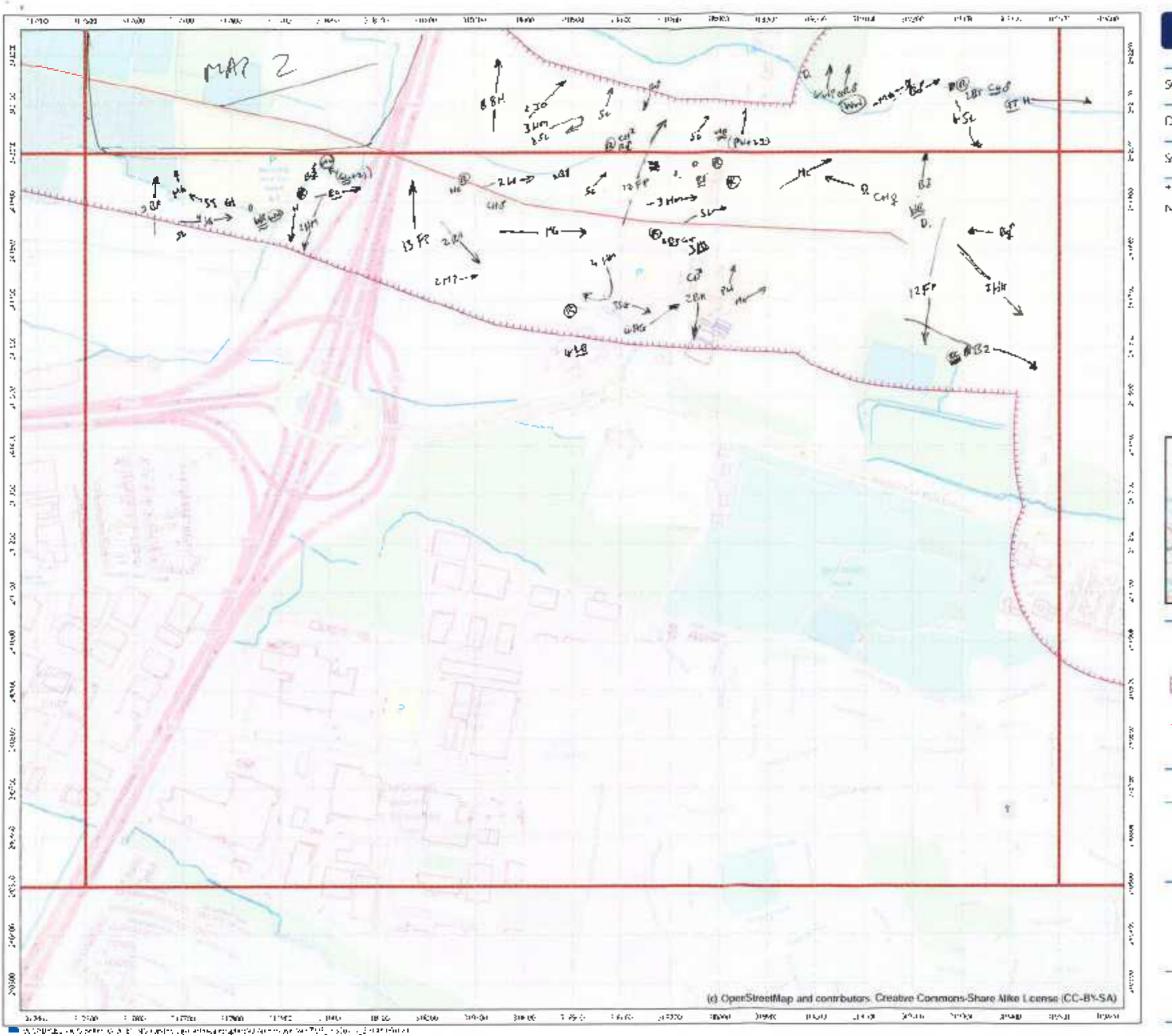
Greater Dublin Drainage

Breeding/winter bird survey

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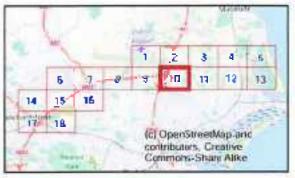


Surveyor Nich Vesee

Date 13 06/2017

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Pipe route (supplied 20170405)

Greater Dublin Drainage

Breeding/winter bind survey

Page 10 of 16

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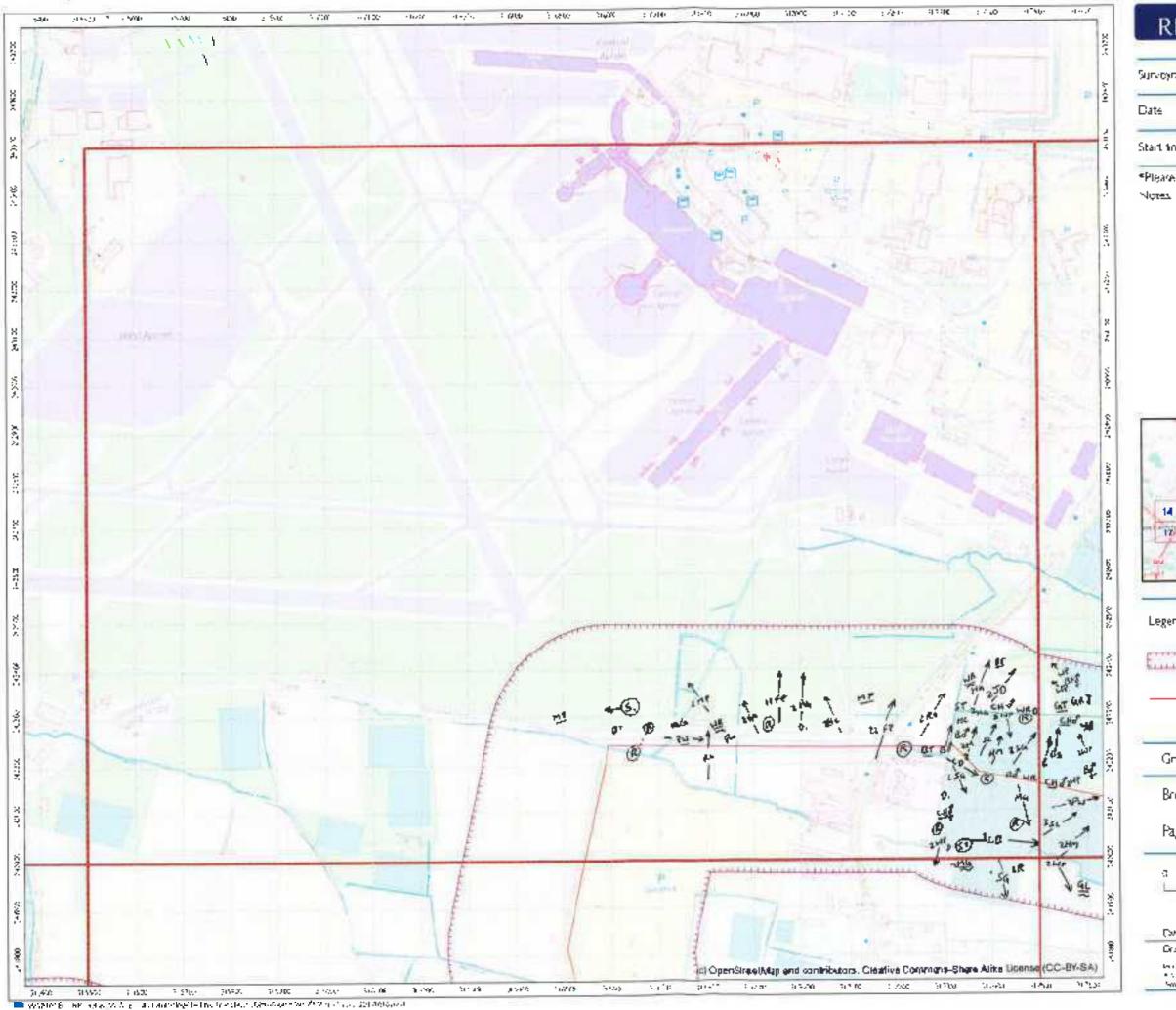
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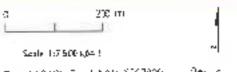
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Breeding/winter bird survey

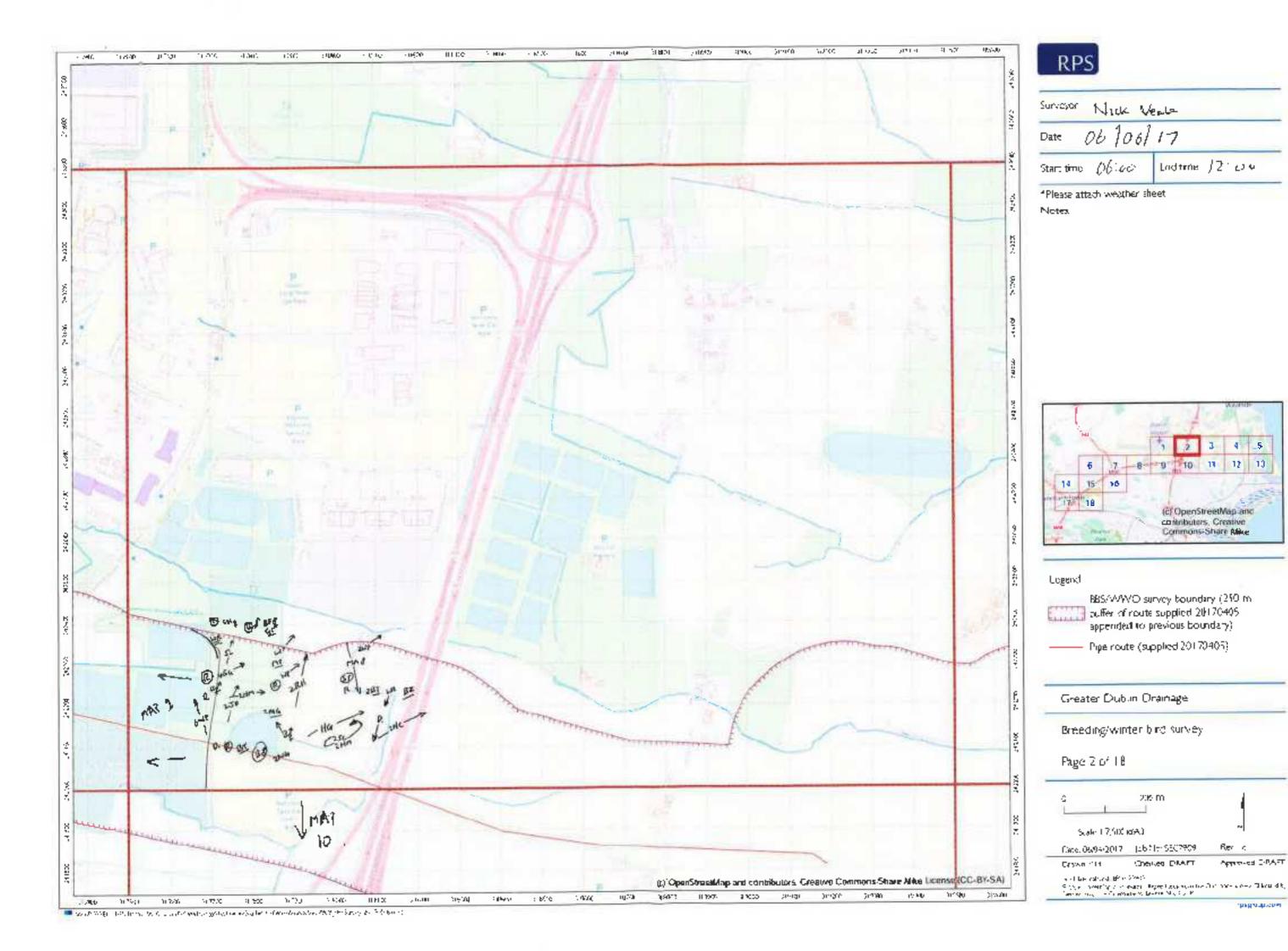
Page Lof B



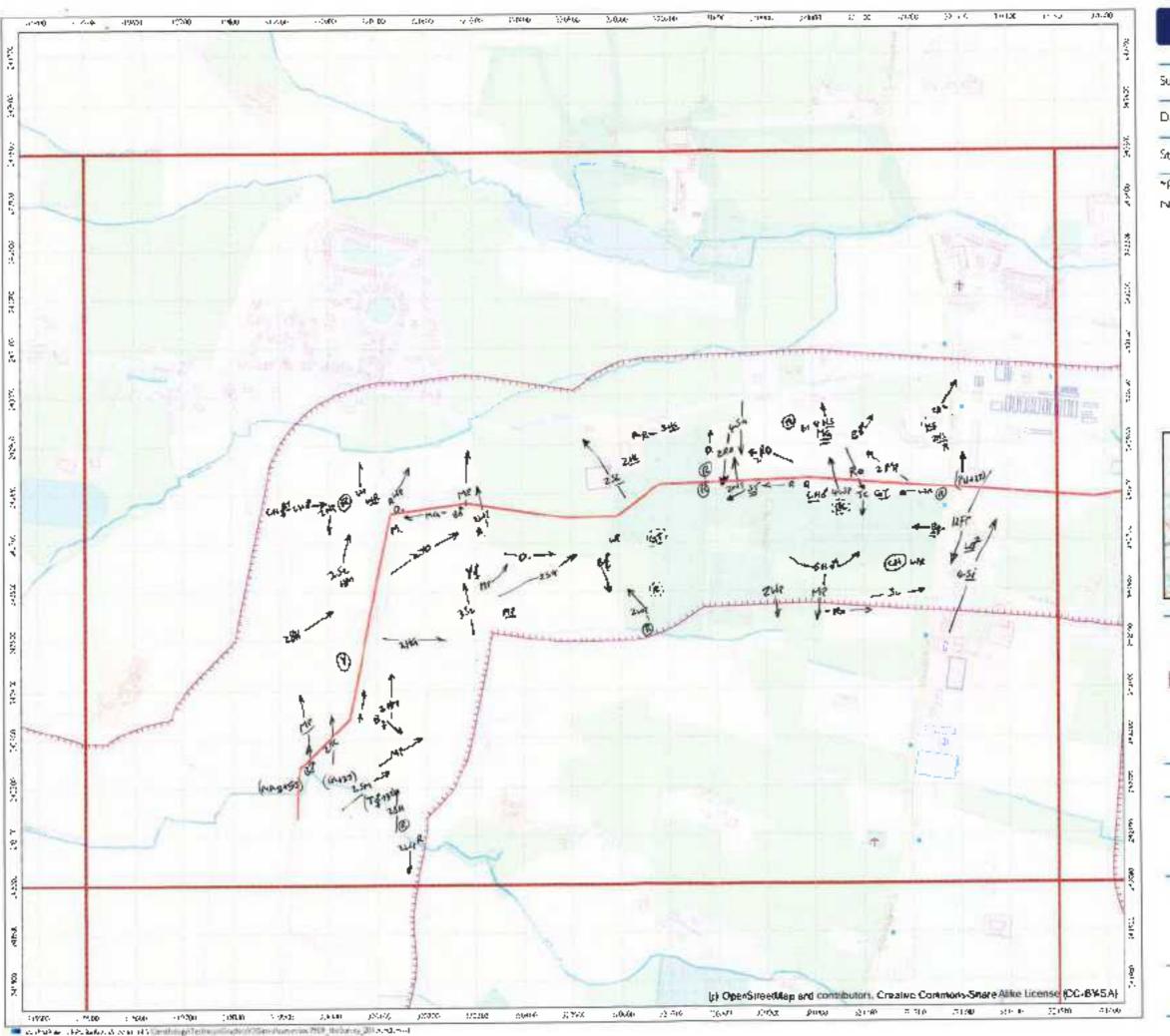
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\*Please attach weather shoot Notes.



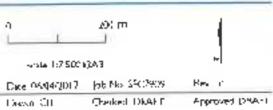
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Greater Dub in Drainage

Breeding/winter bird survey

Page 3 of 18

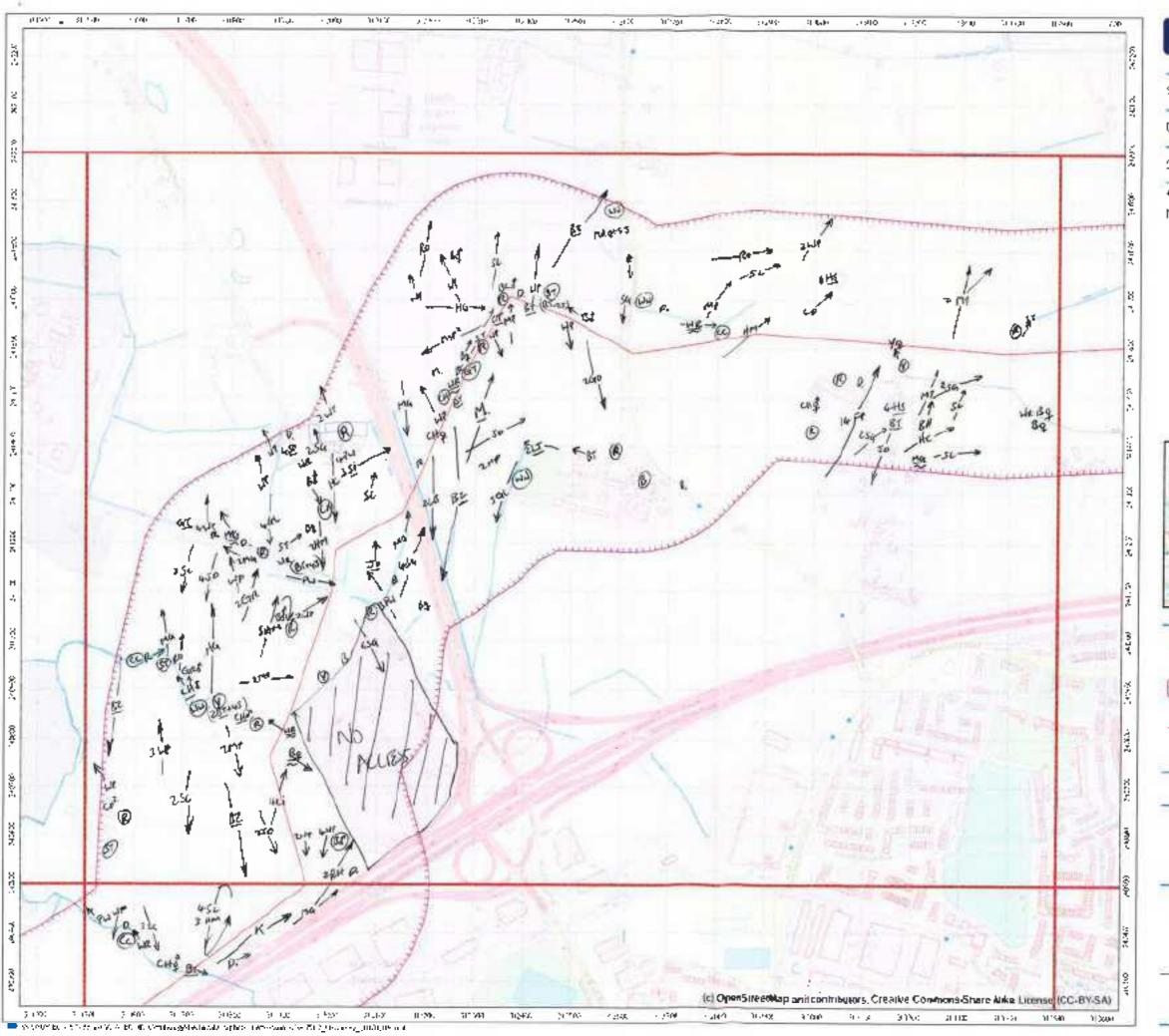


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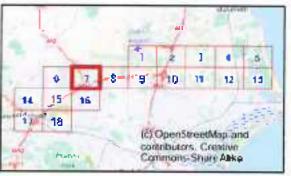




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\*Please attach weather sheet

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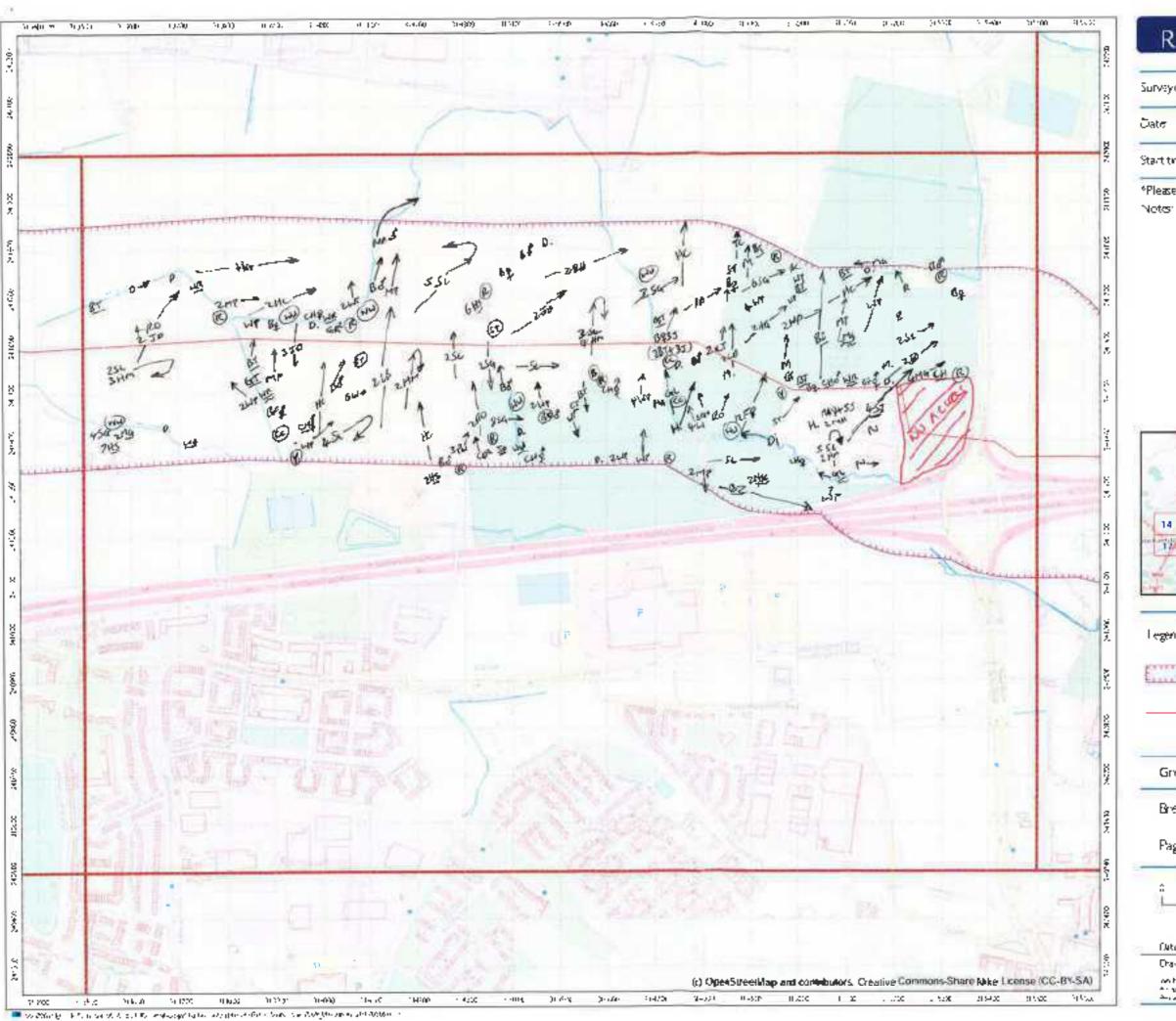
Greater Dub in Drainage

Breeding/winter bird survey.

Page 7 of 18

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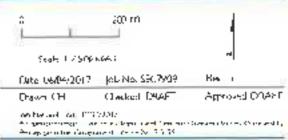
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Greater Dublin Drainage

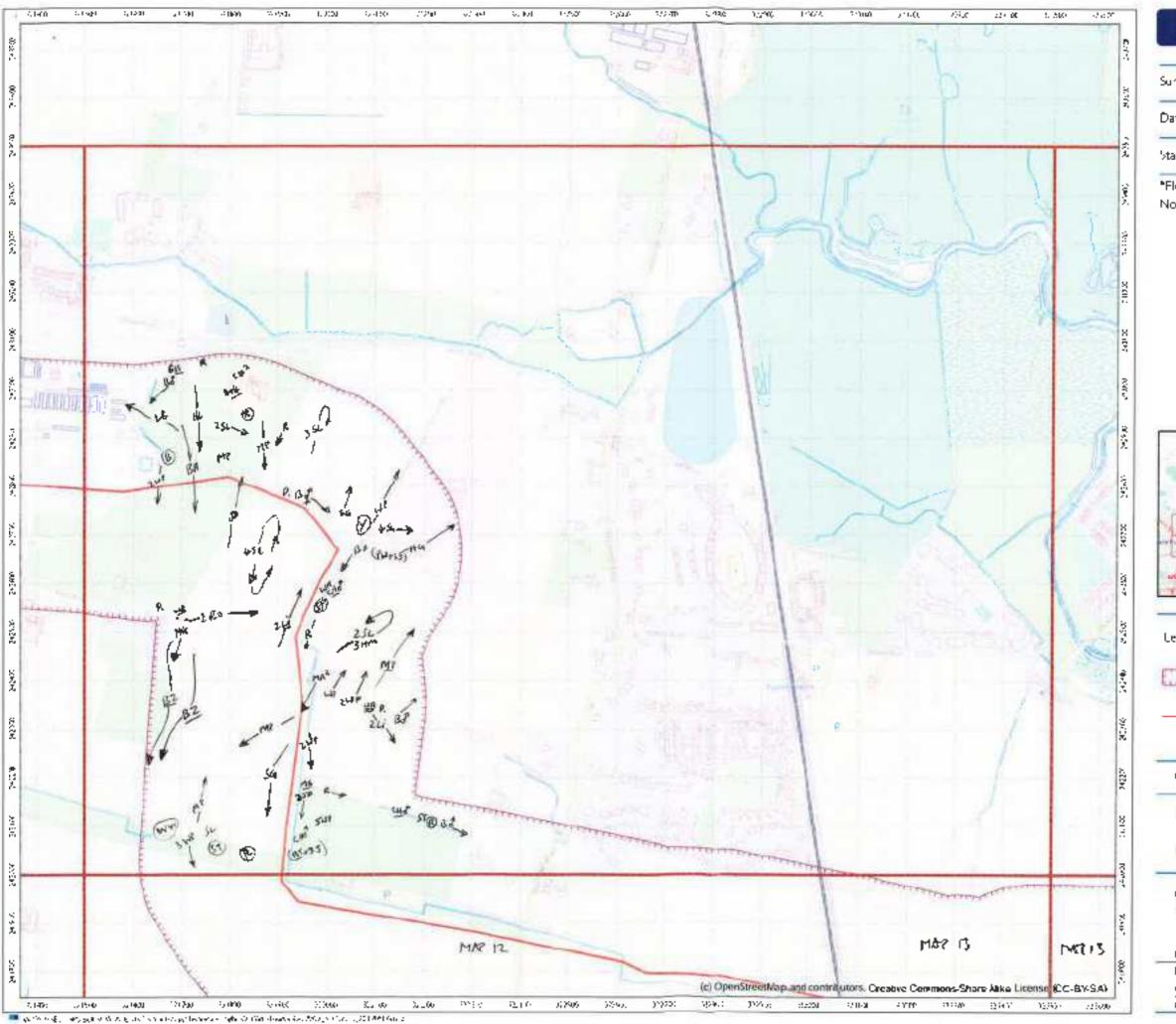
Breeding/winter bird survey

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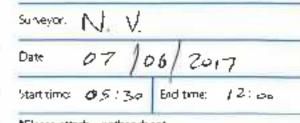


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RPS	Š	Weather Sheel		Wind Speed	peed Beenlag		Direction	Rein/Snow	W0	Cover	Cloud Heigh	Yisibiliy
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Survey	•	SIIS		Fresh Weeze	9926 +	1924	. AS	Lyind Snow	NO.	Frost	150-500m 1	
Observer		Nick Veds	4	Strong breeze	£29	25-31	3 5					
Start Time		05:30		Fresh Sale		36.6		etts LO		Greund	_	Please be as acquate as possible, with another character prospections.
Finish Time		00.2		Whole gale				Bungiis uite	2			VS·5. ngt 5-6.
Sheet 1/	& [ ]	Maps stached	ched	Humicane	-	73+75					E.g. WS - 5, gusbing 5 [in notes]	ng 6 [in riples]
Weather	Wind	Wind	Bain	Cloud	Cloud	Visibility	Frost	Snow	Moles(e.g	Notes(e.g. temperature)	(aun	
ī	6.3	3	Q	3/2	4	C)	1		2000			
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Hr 8												
Field Notes: Maps affeched	rached											
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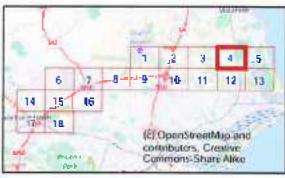






\*Flease attach weather sheet

Notes:



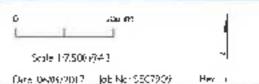
685/MMO survey boundary (250 m. tuffer of rouse supplied 20170405 appended to previous houndary).

Pipc route (supplied 20170405).

Greater Dublin Drainage

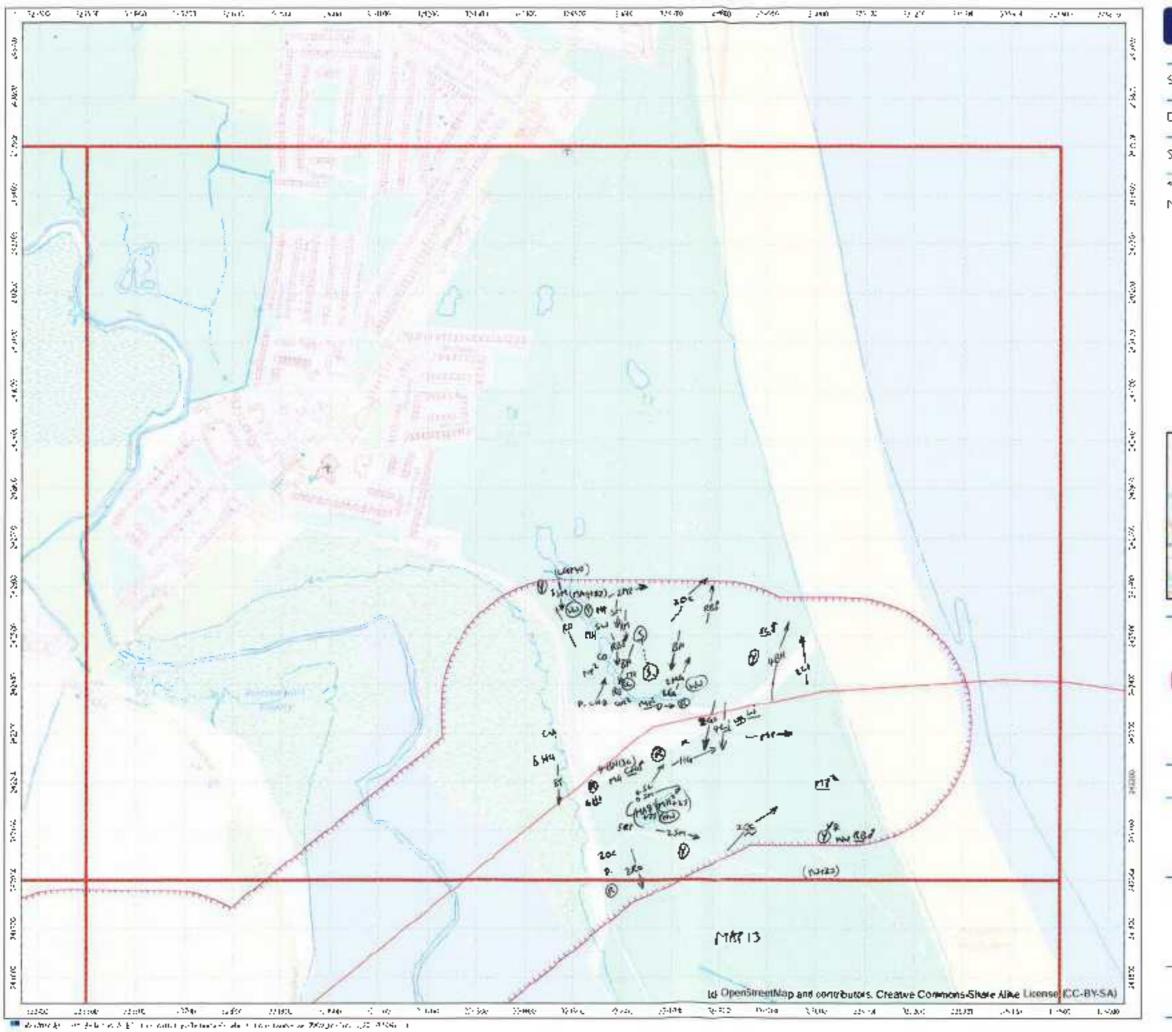
Breeding/winter bird survey

Page 4 of 18



Drawn Oil Checked DIACT Approved DRACT

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Surveyor Nich Veal

\*Please artach weather sheet. Notes



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BBS/VWC survey boundary (250 m buffer of route supplied 20170485 appended to previous powerlary)

Fipe route (supplied 20, 70405).

Greater Dublin Drainage

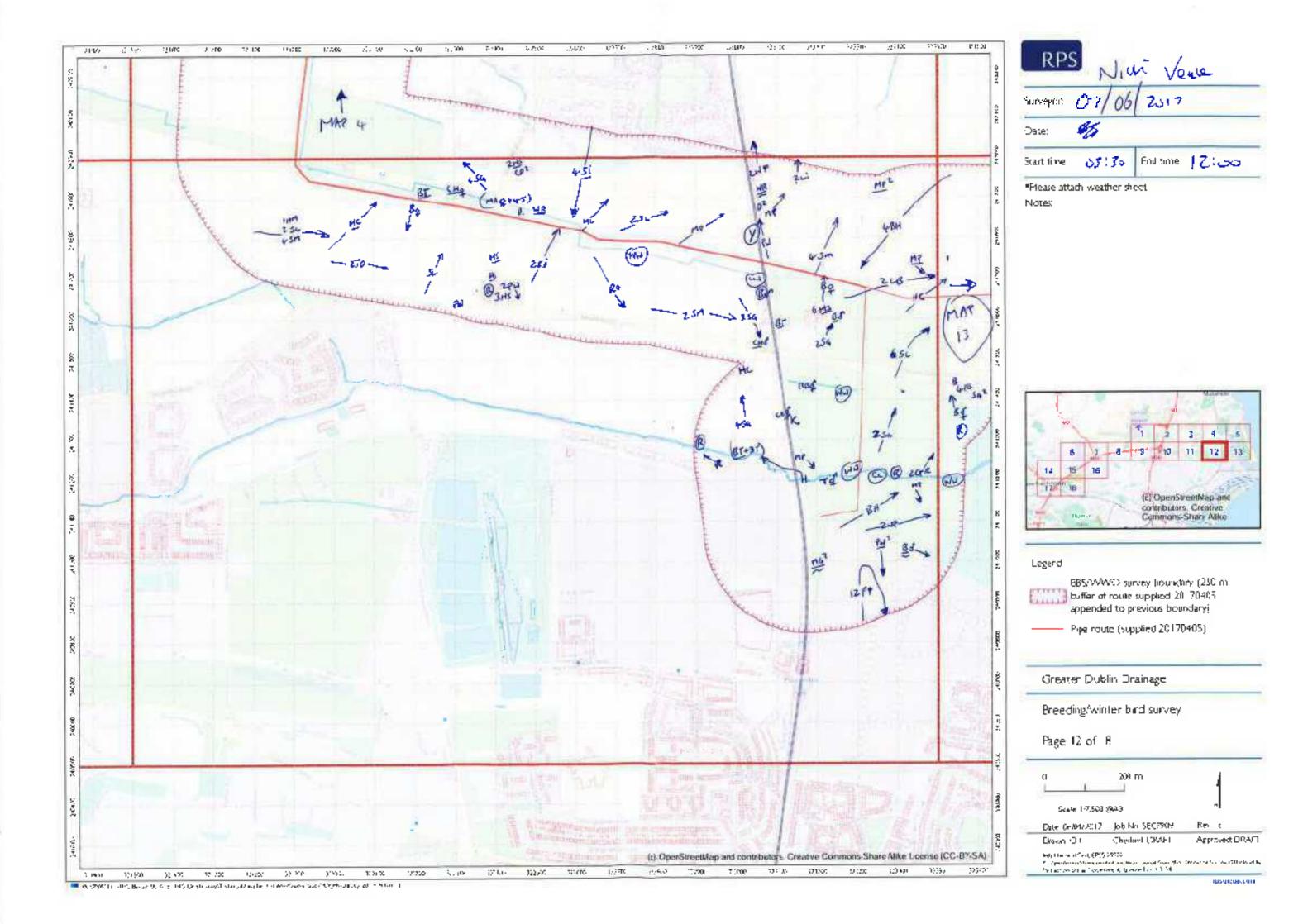
Breeding/winter bird survey.

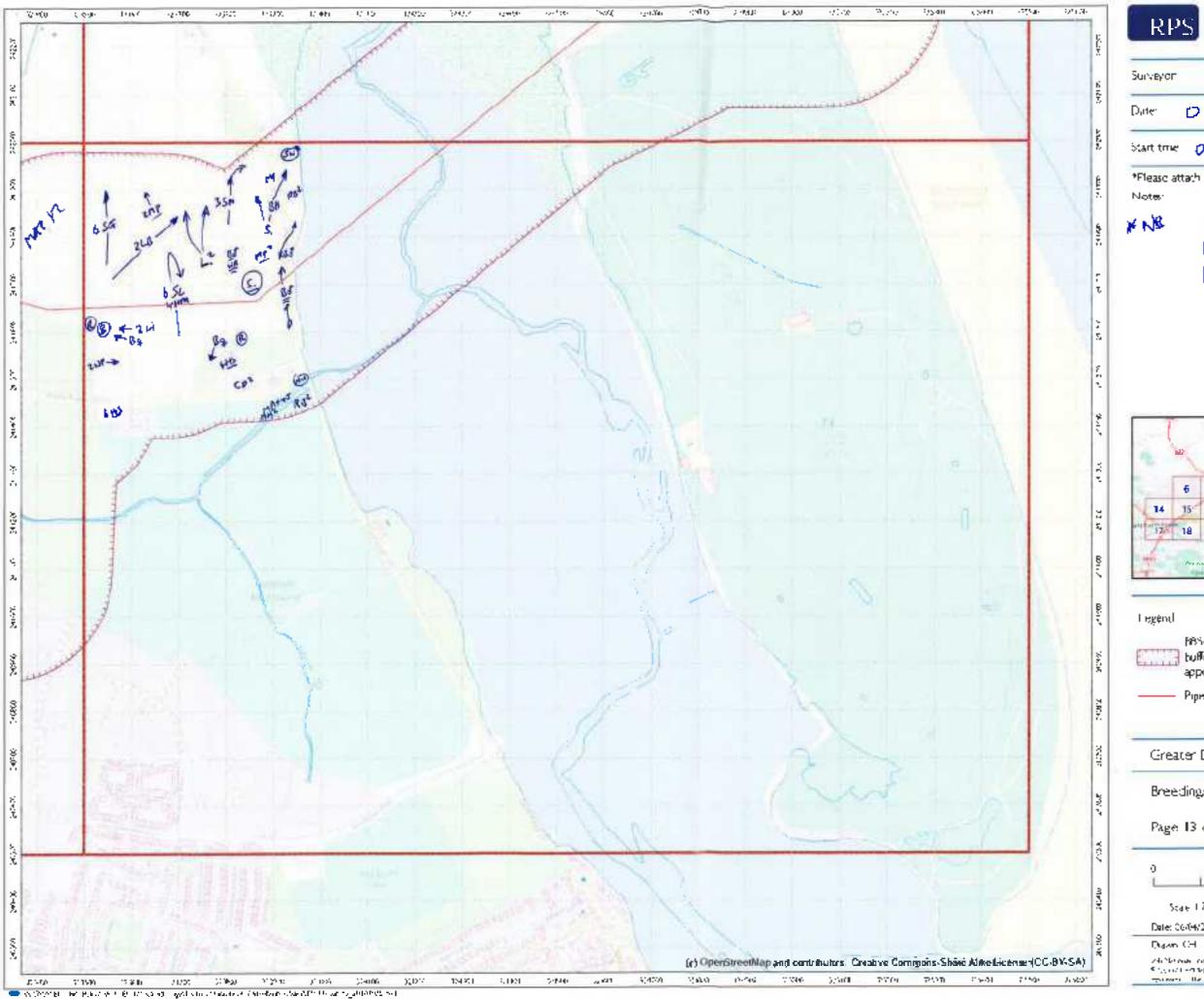
Page 5 of 18

0 205 m Scale 17,700 (pA) Date 5654/2017 tob No 5607909 Resident

Erakni () Chekkel SNAFT Approved DRAFT

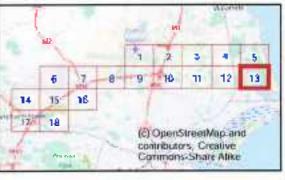
egot talguaren. 1870-2007. 1 Ober Level 19. - Andrume, Hapmoured from der Helius on Norwe (Alberton). 1889-2019 (2014-1982) were upon  $\sim \log(1+20)$ .







Nich Veal-Surveyor End time (2100 Start time (05:36) \*Flease attach weather theet



Legend

BBS/WWW turvey boundary (250 m) buffer of mode supplied 20170405 appended to previous hourillary).

Pipe rixite (supplied 20170405)

Greater Dublin Drainage

Breeding/winter bird survey.

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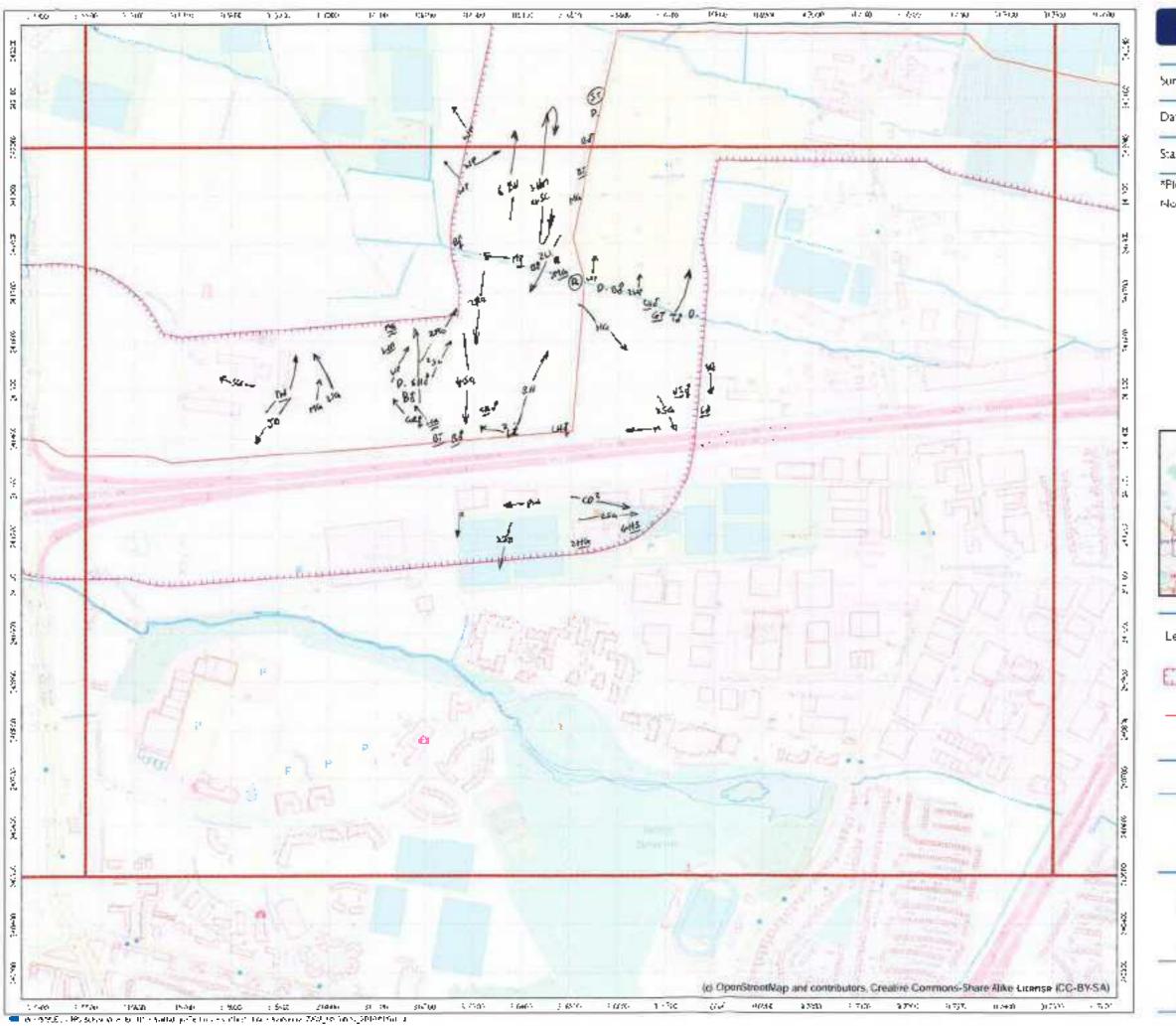
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Date: 06/(4/2017 July No. SEC7909 Checkert SRAFT

Approved: [DRAFT Single of the map in room case allows a well-known the Cadhardonic and a will be used for approximate the constrained in other NLOC (II).

1000-000-000

RPS	3	Weather Sheet	198	Wind Speed	peed		Direction	RainSnow	MQ.	Cover	<u> </u>	Cloud Height	Visibility
Site	0	000		Call a	Beauton 1		2 W	None Onz <b>zieżni</b> et	 -	in payming	£Ą.	HeigN of cloud above average	Paor (cikin) 0 Moženie (cikin) 1
Date	O	T 22/30/20	7	Light breeze	xecse 3	4-4 5-1	ᆈᄖ	Light showers Heavy showers	Weers 2		Đ S	newshed	Good (>3km) 2
Survey	_	दश्य		Mod. breezo	6440 4 18479 5	13.18	. 20	Heavy rain	- L	1000	₹ <u>₹</u>	c150m 0	
Observer	Z	. Vecto		Shonghreeze	hreeze 6	2531	2				_	500m 2	
Starl Time		04:50		Fresh pale		39-46	Ş	Se site		Sound	- c	rase be as account	Please the as accounting as possible, with
Finish Time		12:00		Whole gale				Migh ground				not a range, e.g. WS - 5, not 5-6.	not a range, e.g. WiS - 5, not 5-6.
Sheet 1/	<b>₩</b>	] Waps attached	ched	Sporm Huricane	11 21 91	1. 1.					i Tu	L.g. WS - 5, gusting 6 (in roles).	g6 (in roles).
Weelher	Wind Speed	Wind	Rain	Claud	Cloud	Visibility	Frost	Show	Notes(e.	Notes(e.g. temperature)	ature)		
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Hr 4	2	3	0	8/9	رے	4	1	1					
r.s	M	2	0	8/9	۲	4	١	1					
Hr 6	m	3	0	818	ų	14	1	1					
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Field Notes: Maps attached	E Ched												
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Nich Veale Start time. 05 40 Enditime /2∶pa

\*Please attuch weather sheet

Notes.





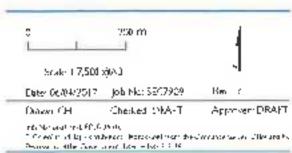
BBS/MMMO survey boundary (260 m.) tw.ffer of route supplied 2017040S appended to previous boundary).

Pipe route (supplied 20170405).

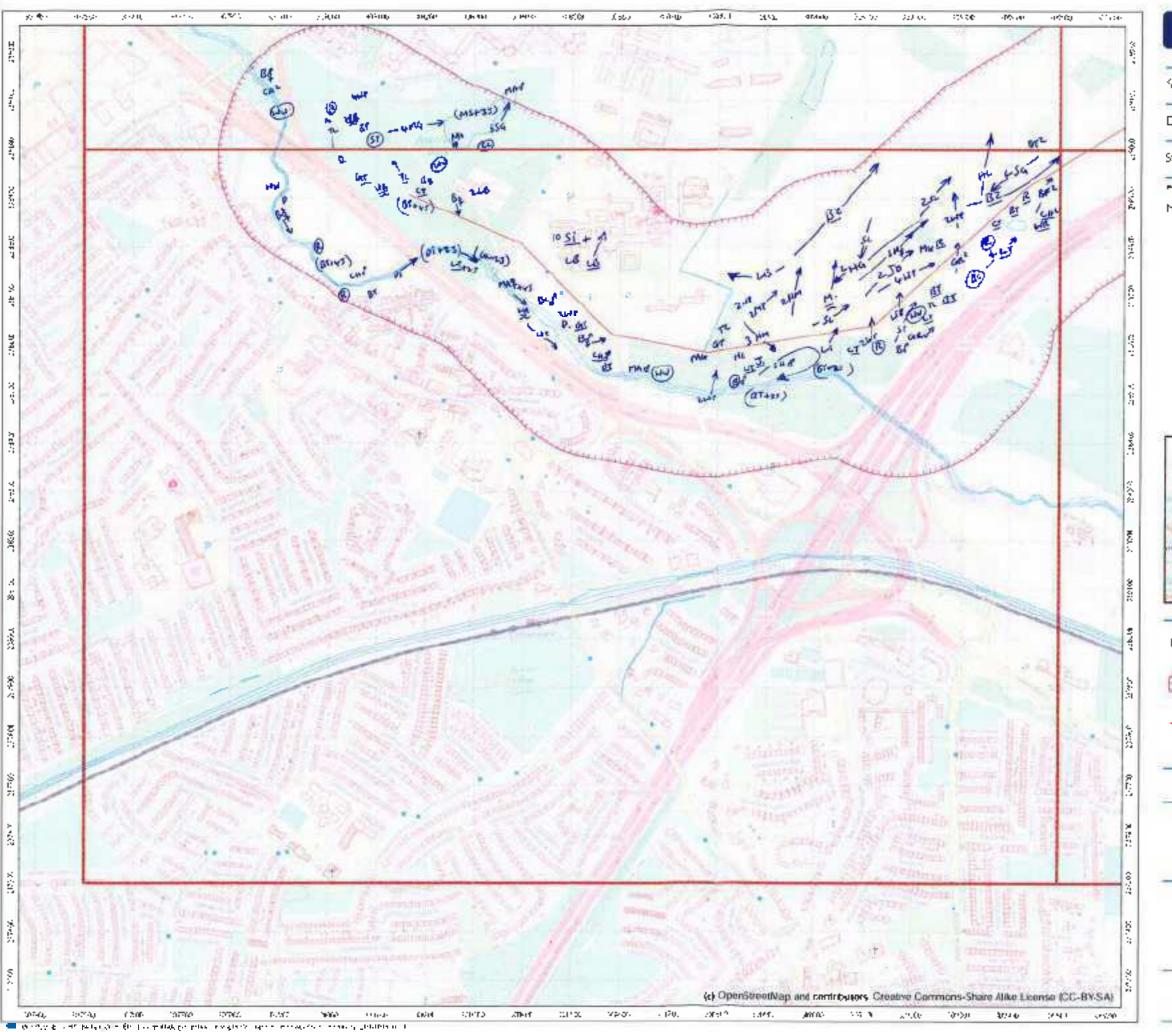
Greater Dublin Drainage

Breeding/winter bird survey.

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Calm	Column	RPS	3	Weather Sheet	<del>-</del>	Wind Speed	Speed		Direction	Rain/Snow	WOL	Count	Cloud Height	
Company   Comp	Continue	Site	9	Ods	П	Calm			2 4	None Drizzlatu		_	Height of cloud above average	_
Feesible   Figs   Figs   Feesible   Feesib	First   Firs	Oate	10				Terita S	4 40	, m %	Light she		_	neigni of	Good (>3km)
Time	## Speed   Mich Veds   Storm blees 6 2531 M   None 0   None 0	Survey	0::	85		Mod. b			1 . 3	Heavyva		-	<150m 0	_
### OS130  ####   OS130  ###################################	Time   OS13.5   Finds gate   3 3436   Mm   Word   Mine   1 Goung   1 Goung	Observe			1	Soom	-		2	ràuda:		1804		_
sh Time           2o.s         Submy gale states         9 4754 states         High ground         2           st 1/2 states         Whole gale states         10 5563 states         High ground         2           dher bind         Wind         Rain         Cloud         Choud         Visibility         Frost         Show         Notes(e.g.           3         5         0         3/8         2         2         2         1/2 c.         1/2 c.           2         5         0         4/8         2         2         -         1/2 c.           2         5         0         5/g         2         2         -         1/2 c.           2         5         0         5/g         2         2         -         1/2 c.           3         5         0         5/g         2         2         -         1/2 c.           3         5         0         3/g         2         2         -         1/2 c.           3         5         6         5/g         7         -         -         1/2 c.           3         5         6         6/g         7         2         -         1/2 c.	###	Start Tim		CE130		Fresh g			AW.	On site		Gound		urse
at 1/2         8   Maps attached         Humicine         12         73+         Annichme         12         73+           4her         Wind         Rain         Cloud         Choud         Visitnity         Frost         Show         Notes(e.g.           3         5         0         3/8         2         2         2         14**C           2         5         0         4/8         2         2         14**C           2         5         0         4/8         2         2         15**C           3         5         0         8/9         7         2         2         16**C           3         5         0         8/9         7         2         2         16**C           3         5         6         9/8         7         2         2         17**C           3         5         6         8/9         7         2         2         17**C           3         5         6         8/9         7         2         2         17**C           3         5         6         8/9         7         2         2         17***C           5         6 <td>at 1/ at   Maps attached         Hunique         11 6472           Aber Mind         Hunique         12 73+           Aber Mind         Mind         Council Council         Visiting         Frost         Show         Notes(e.g. remperature           3         5         2         2         2         14**</td> <td>Finish Ti</td> <td></td> <td>2.00</td> <td></td> <td>Whole</td> <td>_</td> <td></td> <td></td> <td>High Po</td> <td></td> <td>A day</td> <td>_</td> <td>WS-5</td>	at 1/ at   Maps attached         Hunique         11 6472           Aber Mind         Hunique         12 73+           Aber Mind         Mind         Council Council         Visiting         Frost         Show         Notes(e.g. remperature           3         5         2         2         2         14**	Finish Ti		2.00		Whole	_			High Po		A day	_	WS-5
4her Wind         Wind         Rain         Cloud         Choud         Visibility         Frost         Show         Notes(e.g.           2         5         3         7/8         2         2         14°C           2         5         0         1/8         2         2         14°C           2         5         0         1/8         2         2         14°C           2         5         0         1/8         2         2         15°C           3         5         0         1/8         2         2         16°C           3         5         0         1/8         2         2         16°C           3         5         0         1/8         2         2         17°C           4         5         6         1         1         1         1         1           5         5         6         1         1         1         1         1         1         1         1         1	Ather Wind         Wind Gould Cloud Wisibility Frost Show Notes(e.g. 2)           3         5         3         7/8         2         2         14°C           2         5         0         1/8         2         2         14°C           2         5         0         1/8         2         2         14°C           2         5         0         1/8         2         2         15°C           3         5         6         1/8         2         2         15°C           4         8         1         1         2         1         17°C           5         6         1         1         2         2         1         17°C           5         6         1         1         2         2         1         1         1         1           5         6         6         1         1         2 <t< th=""><th>Sheet 1/</th><th>*8</th><th>Maps atta</th><th>ched</th><th>Storm</th><th></th><th></th><th></th><th></th><th></th><th></th><th>Lig. WS - 5, gusting 6 (in notes).</th><th>ing libe.</th></t<>	Sheet 1/	*8	Maps atta	ched	Storm							Lig. WS - 5, gusting 6 (in notes).	ing libe.
speed direction         cover height           2         5         0         7/8         2         2         14°°C           2         5         0         6/6         2         2          14°°C           2         5         0         4/8         2         2          15°C           3         5         0         8/8         2         2          16°C           3         5/2         6         9/8         7         2          16°C           5         5/2         6         9/8         7         7          17°C           5         5/2         6         9/8         7         7          17°C           5         5/2         6         9/8         7         7	speed direction       cover height         2       5       0       7/8       2       2       14°C         2       5       0       8/8       2       2       14°C         2       5       0       8/8       2       2       16°C         3       5       0       8/8       2       2       16°C         3       5       0       8/8       2       2       16°C         3       5       6       9/8       2       2       17°C         Holes:         ips adlached	Weather	Wind	Wind	Rain	Cloud	Choud	VISIDINIY	_	Show	Notes(e.g		(Ave)	
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Start time OS:30 End time. 12466
Pease attach weather sheet

Note.





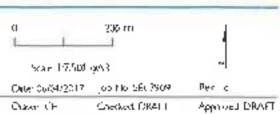
885/VWO allovey boundary (250 m Juffer of route supplied 20170405 appended to previous boundary)

Pipe route (supplied 20170403).

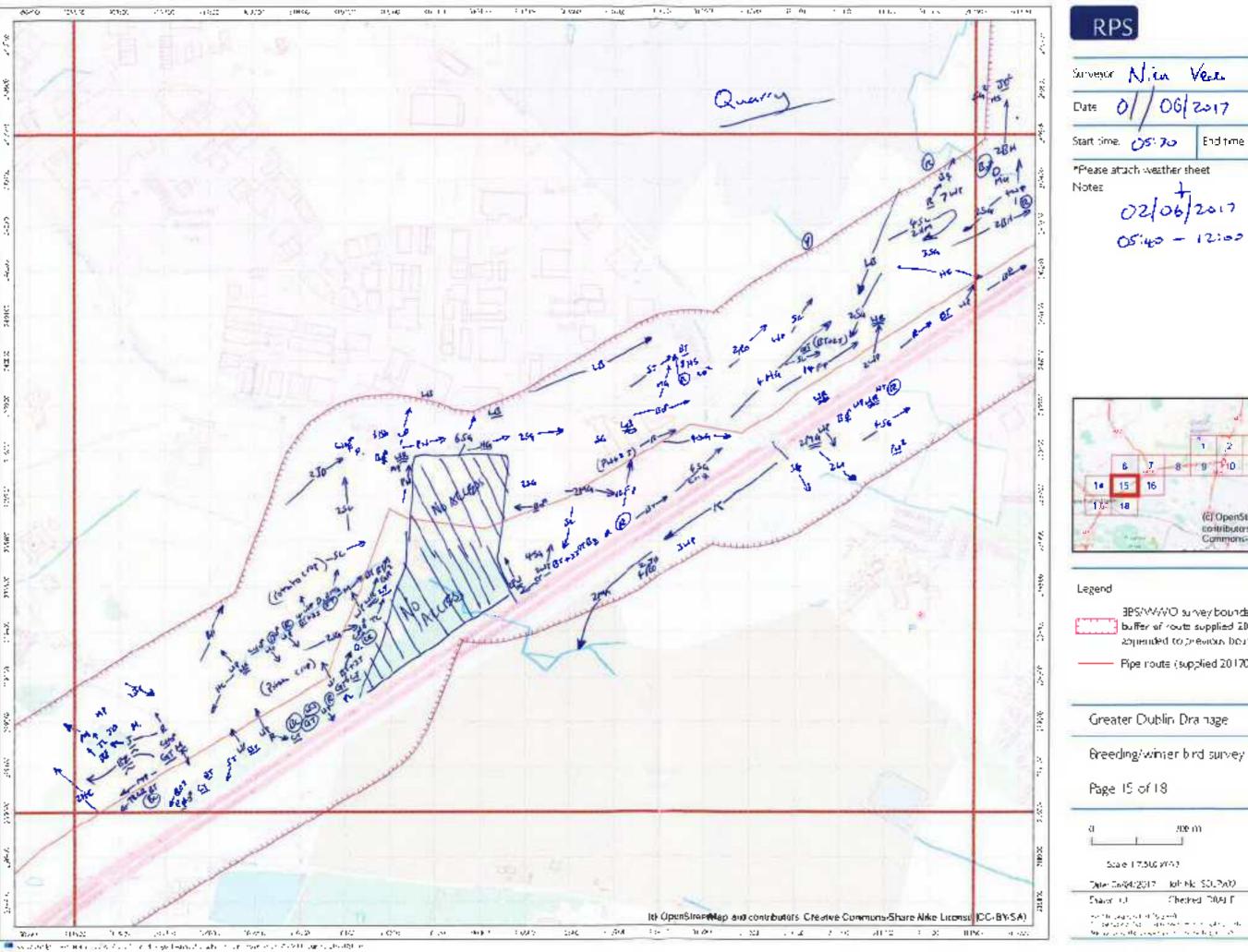
Greater Dublin Orainage

Breeding/winter bird survey

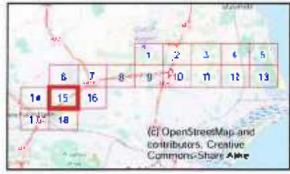
Page 17 of 18



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Surveyor Nich Veck 06/2017 Enditime (2:5 \*Please attach weather sheet 02/06/2017



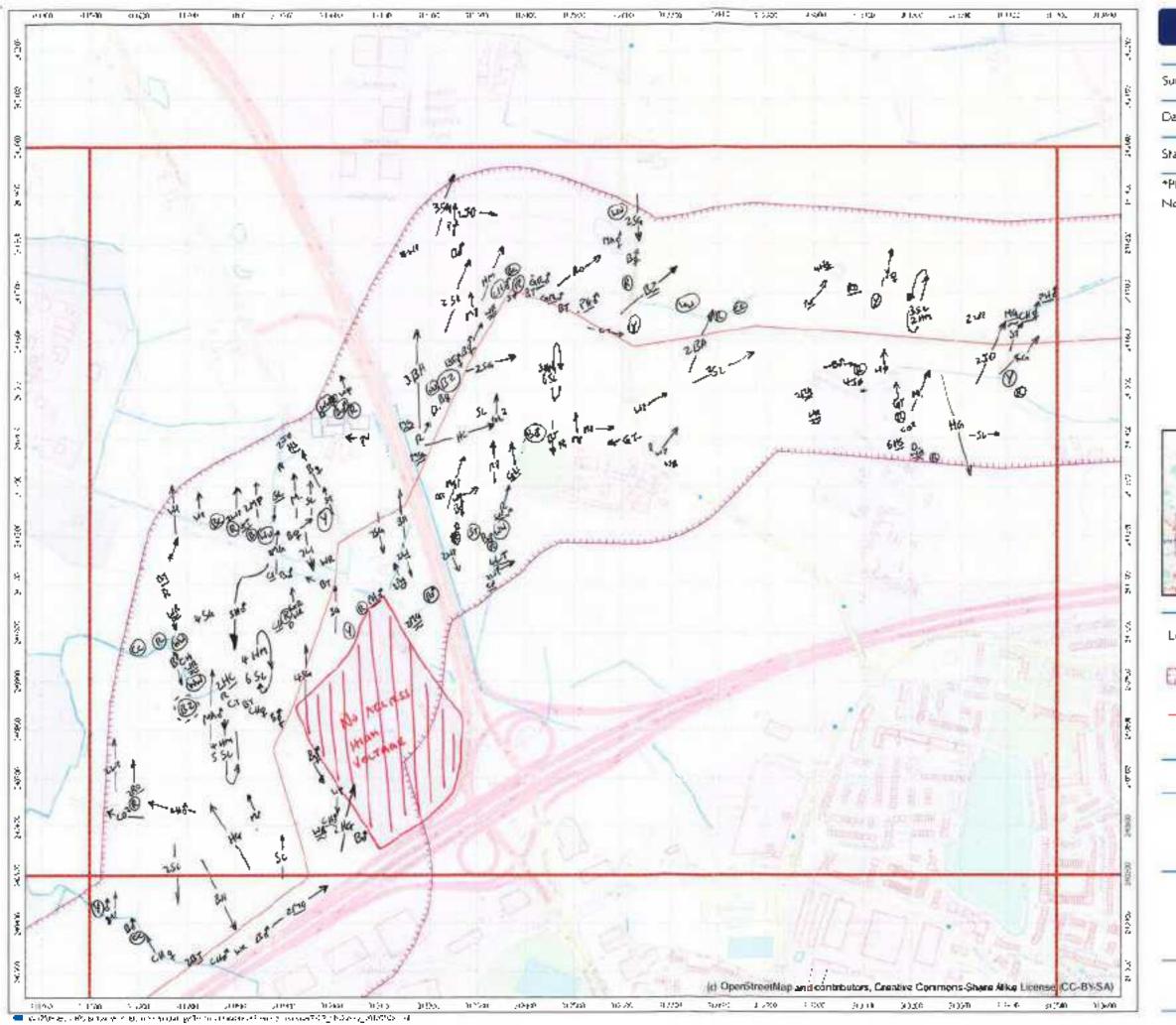
BPS/MM/O survey boundary (250 m.) buffer of route supplied 20170409. appended to previous boundary).

Pipe noute (supplied 20170405).

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RPS	\$	Weather Sheet	ŧ	Mind S	Speed Between	144	Director	Rain/Show	MON.	Cover	Cloud Height	Visibility
Site	9	300	Г	Calm Light &			2 2	None	~ -	in eigedes e.g. 200	Heght of doug above average	Poor (<1kin) 0
Date	5	31 (35/24)		Light breeze	9929 2 W8428 3	- <del> </del>	ш IX	Light slowers	OWERS 2		height of viewshad	Good (>3km) 2
Survey	<u></u>	1183		Mod brance	# 02BB	1918		Heavy rain	ain		c150m q	
Observer		Nin Ved	1	Shong breaze	G ezeeni Juenzo E	25.21		Mous Sunda	Mous	1804	150-500m 1	
Start Time		00:50		Arcd, gale Fresh gale	जि. अ. ⇔.	8000 948 948 9	₹	Name On site	<b>o</b> –	None d	_	Please be as accurate as possible with
Finish Time		12:00		Whole gale				High graund		Allday		Weblind details, anigning only one ligues, not a range, e.g. W.S 5, not 5-6.
Shaet 1/	*a	Maps attached	ched	Stern	15 12	7472					B.g. WS - 5. guesting 6 (in	Use indes for a are infe. E.g. WS - 5. gusting & (in notes).
Weather	Wind	Wind	Rain	Cloud	Chaud	Visibility	Frost	Show	Notes(e.g	Nofes(e.g. temperature)	ine	
Ę	2	-	C	3/2	riengrik	4				1	3	- 1
7.2	2		3	10	-	9				4	,	100 A CHA-10
H 3	2	19	0	2/5	-	> -			Tehom.	501	2.8	" > 500 m
Hr 4	м	7	0	3/3	2	2			124			
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du nice con collection						Ì			Ì			
Initial AND date ALL	bte ALL			Dalaba	Dalabase Entered		Database Validated	/alidated		GIS Entered	GIS Validated	lidaled





Surveyor: N. Veck.

Date 3/ /OS/17

Startume US Co. End time: 121 co.

\*Please attach weather sheet

Netes



Legend

BBS/WWO survey tourndary (230 m buffer of route supplied 20170405 appended to previous boundary)

Pipe route (suppried 20170405).

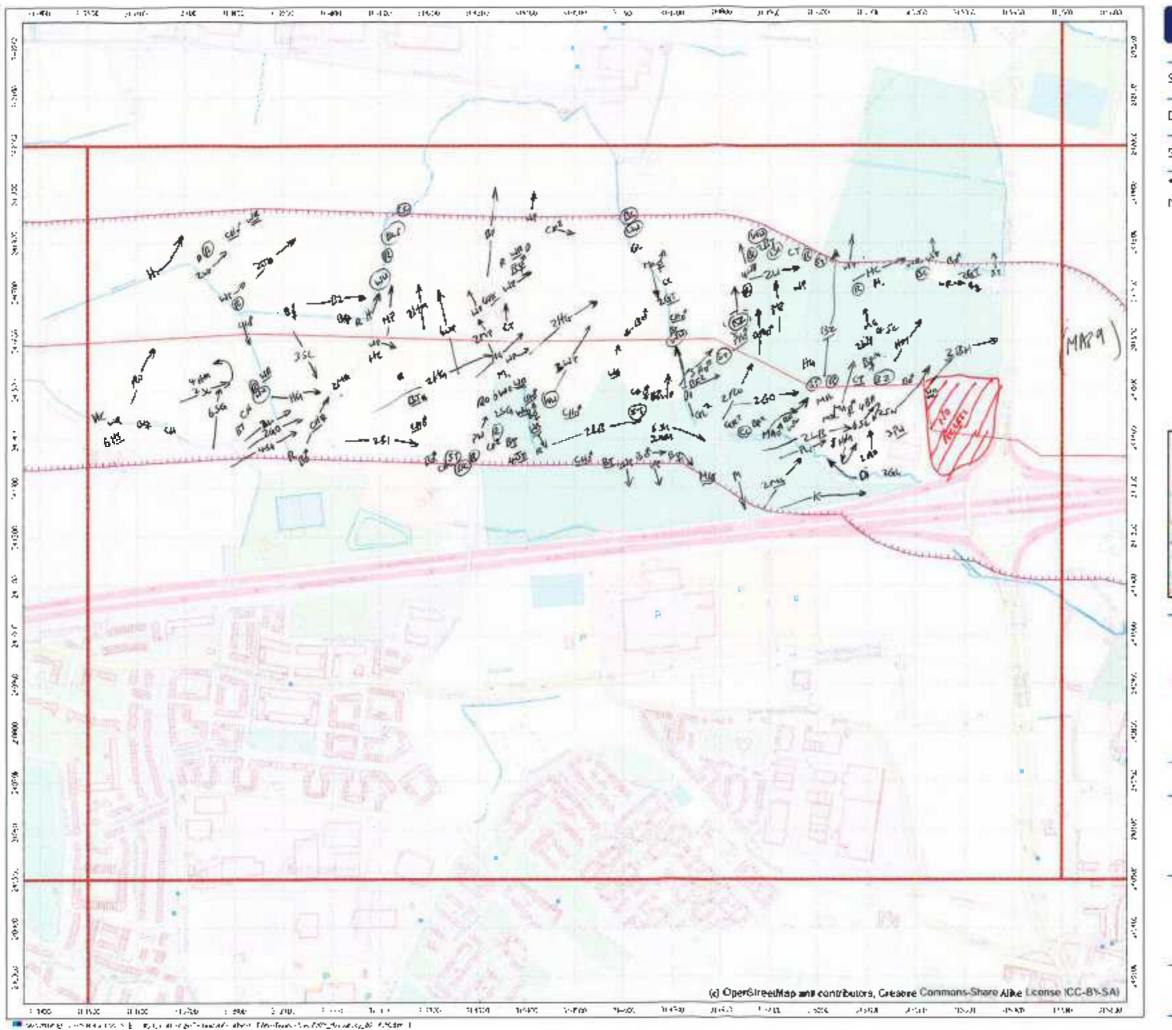
Greater Dublin Drainage

Breeding/winter bird survey

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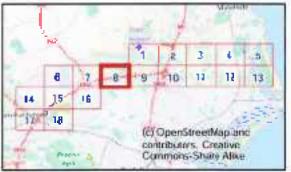
## RP

Surveyor. N. Voole.

Date 3/ / OS/2017

Start time estable fine time. / Z : Date

\*Please attach weather theet.
Notes:



### Legend

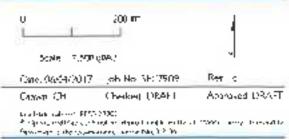
885/VVVC) survey boundary (250 m buffer of route supplied 20170405 appended to previous boundary!

Pipe noute (supplied 20170405).

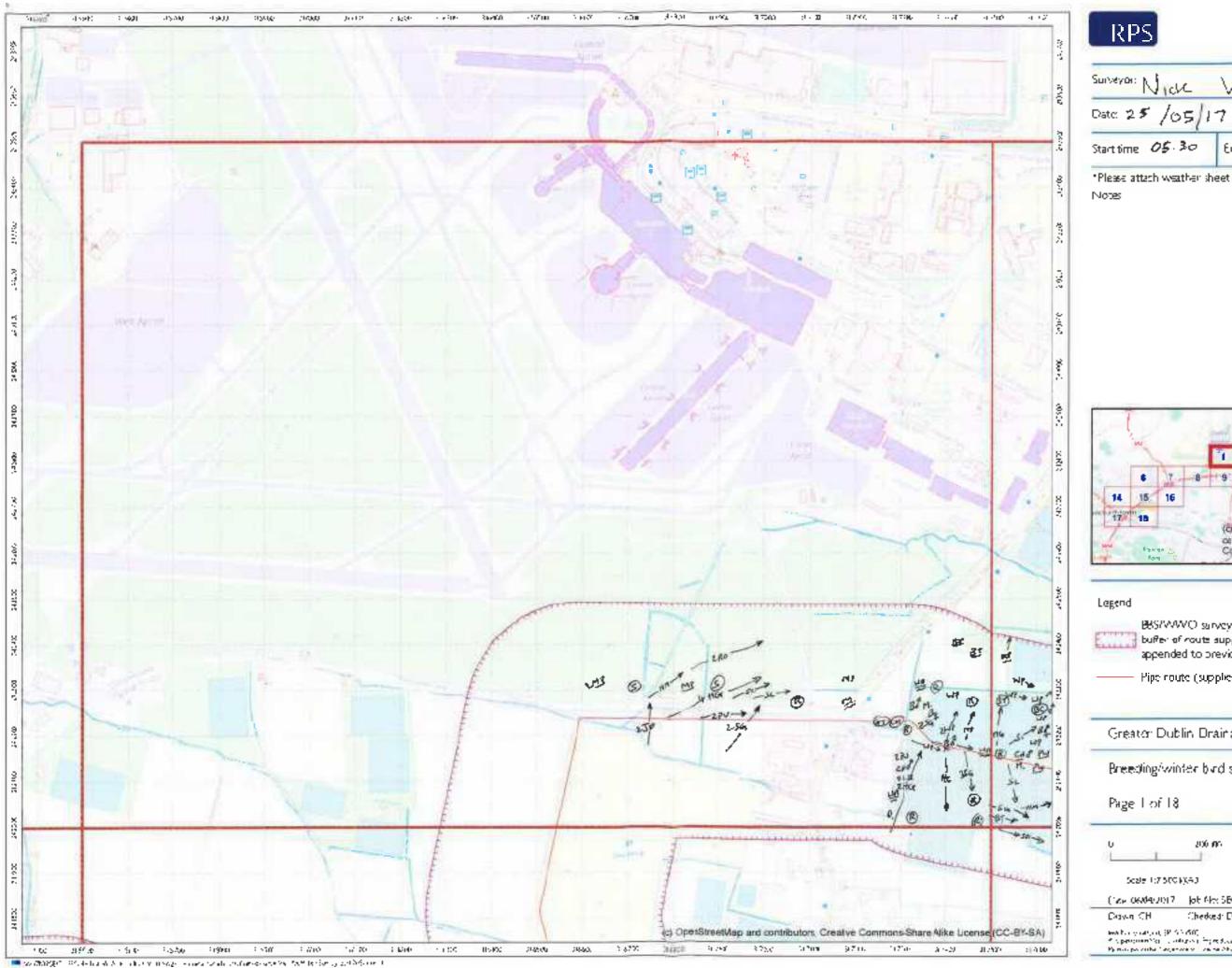
### Greator Dublin Drainage

Breeding/winter bind survey

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RPS	₹	Weather Sheel	8	2	Wind Speed Beaufor	for Mah	Direction	Hanshow	MQL.	Cover	Cloud Height	Visibifiy
Site	9	000	Π	Call at			교발	None Jozzłajkast	0 -	In pighths e.g. 3/8	Height of cloud above average	Poor (kilkm) ()
Date	2	7 wz/SO/ 52	7	Centle breeze	heese 3	4 e		Light showers Heavy showers	Mers 2		regniol rewshed	Good (>3km) 2
Survey	2	SUS		Mod. breeze	reeze 4	18-18	. 5	Heavy IAID		100	c150m 0	
Observer		N. Veck		Strong brance	Panes de	56.3	îz:	Lying Princia			150-500m 2 ×300m 2	
Start Time		05:30		Fresh gale			MM	None Selection		Gaund 1	_	Pleuso be as accurate to messble, with
Finish Time	H	12:00		Whole gale	gale gale			High ground		Allday	_	Mealler dotals, enleting any one figure, not a faller, e.g. WS - 5, net 5-6,
Sheet 1/	<b>6</b> [ ]	) Maps attached	ched	Humean	Ę	11 <b>54</b> -72					E.g. WS - 5. gusting 6 (in notes).	ra mo. ing 6 (an ordes).
Wealher	Wind	Wind	Rain	Cloud	Cloud	Visibility	Frost	Show	Notes(e.g	Notes(e.g. femperature)	re	
H. 1	Μ	Şe Se	0	3/9	-	-		1	2011	1	Part Par	
Hr.2	2	3,6	ð	3/8	-	-	1	1	ر ال	7		
Η̈́З	4	#J	0	8/5	2	~		1	V s		1	
Hr4	2	W	0	Sp	~	7			74.5			
Hr 5	м	35	0	4/9	ני	2						
H.6	M	>6	0	3/8	~	N			18ء			
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Surveyor: NICK Vecle-Start time 05.30 End time /2100



BBS/WWO survey boundary (250 m. buffer of route supplied 20170405 appended to previous boundary).

Pipe route (supplied 2017040b).

Greator Dublin Brainago

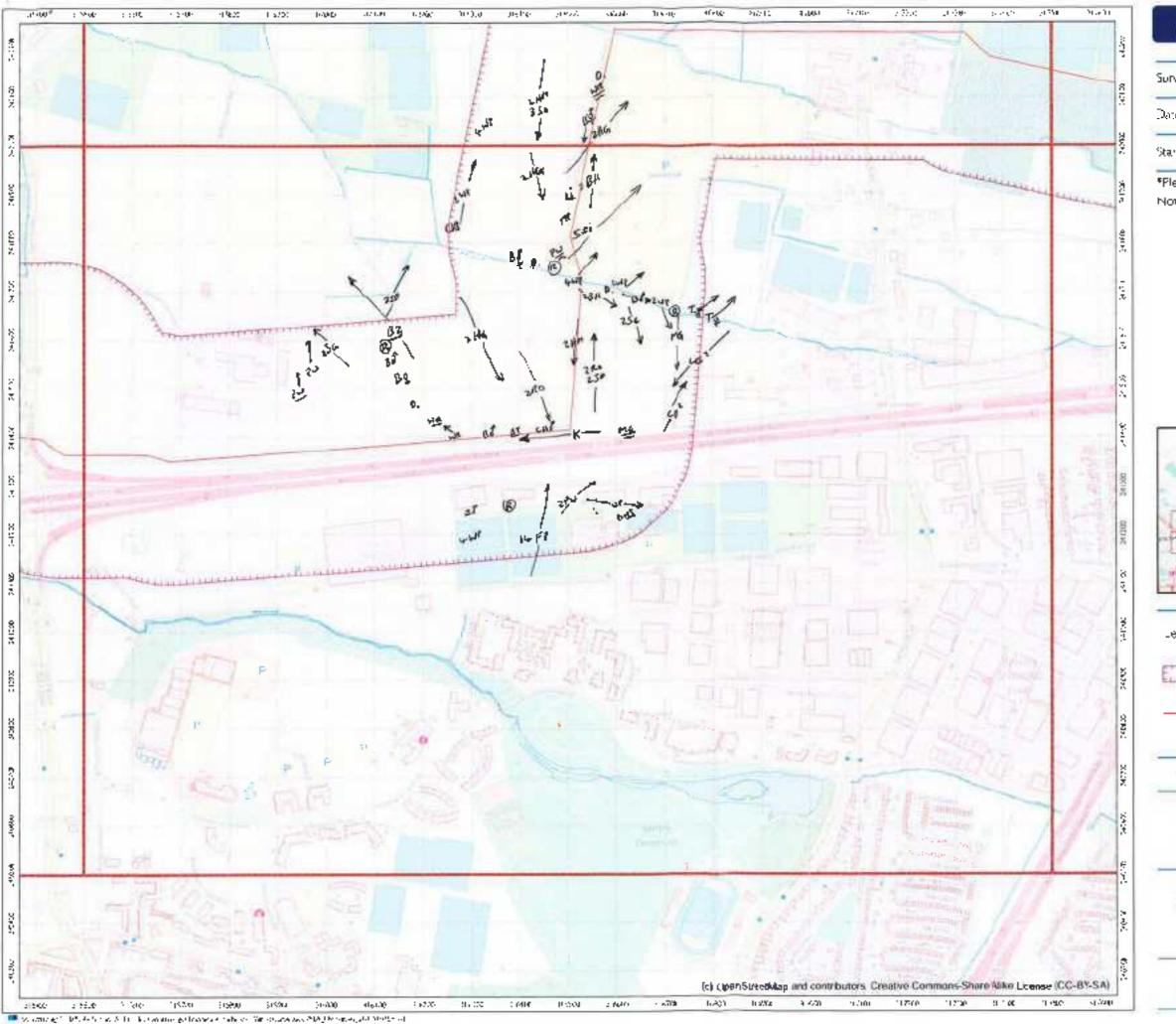
Breeding/winter bird survey

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Scale 1:7500 kXA3 (12x 06/04/0017 | job 64% 5807904) Approved [2444]

Checked: DRAFT Dayon CH

the distriction.

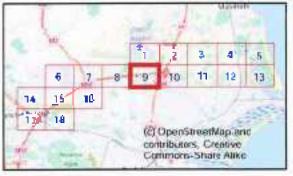




Surveyor N.V Date | ቆ 25 | Starttme: 05:30 End time 12:ಎಳ

\*Please attach weither theet

Note:



Legend

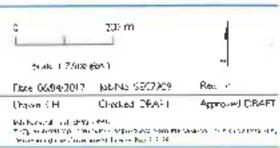
-RBS/WWWO survey boundary (250 m.) buffer of route supplied 20170495 appended to nievious boilingary).

Pipe route (supplied 20170405).

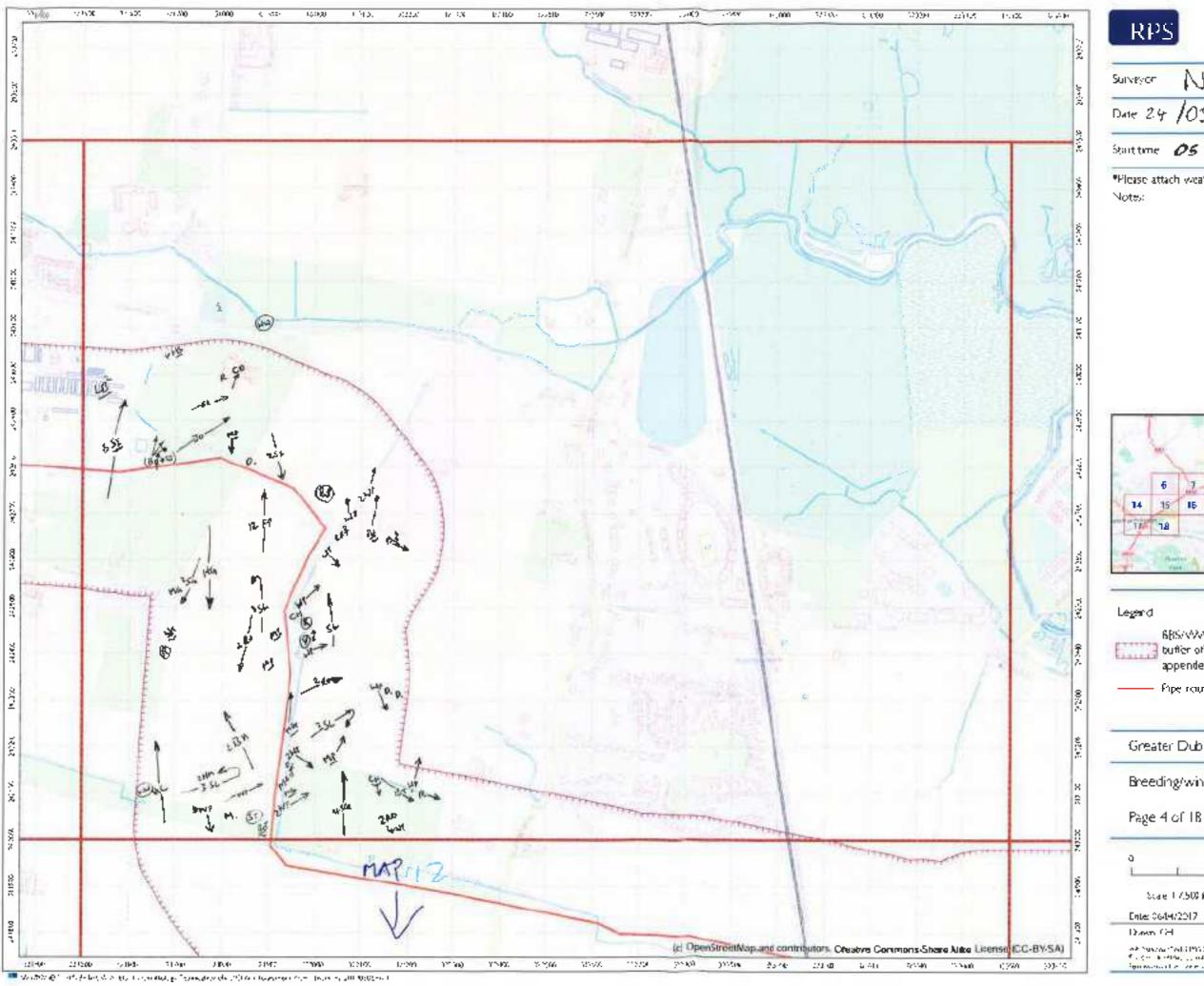
Greater Dublin Drainage.

Breeding/winter bind survey.

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RDS	\$	Weather Sheet	¥	¥	Wind Speed	- Call 1	Direction	ReinSpow	MO#	Cover	Cloud Height	Welbilly
Sife	9	900		S P			2 2	Mone		In eighthe	Height of cloud	Poor («Ikm)
Date	2	24 OS 2017	20	5	Cight breeze	? <del>\</del>	. ш.	Light showers		P 15	Po Hord	Moderate (1-3km) Good (>3km)
Survey	_	Res		Mod. tveeza			, eo	Heavy rain	ain 4		150m 0	
Observer		N. Jear		Strong breeze	Shong breeze 6		ž ž	Lying Snow	No.	Frost	150-50km 1 >500m 2	
Start Time		05:20		Mod. gale Freshgale	상황	8 9 8 8 8	ž	None On alta	-	None	Please be as	rate as noochin
Finish Time		12:40		Whole gale	ege Seg	9 47.54		High ground		All day 2	220-12	tering only one
Sheet 1/	_ 	Maps attached	ched	Storm	含						USB robes for extra info. E.g. WS - 5, gusbng 6 (in notes).	tinfo.
Weather	Wind	Wind	Rain	S COCK	Cloud	Visibility	Frost	Snow	Notes/e.g	Notes(e.g. temperature)	re)	
H-1	2	-	0	3/6	c	2			4.0			
H-2	2	25	0	4/0	,	1 0			F			
Ψ.	3	200	0	1/2	٠,	م ر			140			
Hr 4	2	745	0	7/1	^	0		1	1			
ω Ī		v	0	8/8	2	2	1	1	100			
e Ī	2	5 %	0	8/8	2	2	1	1	,			
Hr.7	3	×	0	8/8	2	2	)	1	700			
Hr8									3			
Field Nobes: Maps attached	peque											
For other was only, NB- Initial AND date ALL	only NE-	pedSon		Databas	Database Entered		Database Validated	alkizted	GISE	GIS Entered	GIS Validated	



Nich Veal Stattime 05 1 20 Fro time 12:00

\*Please attach weather sheet

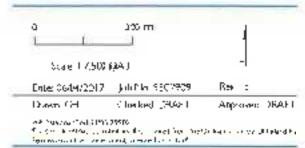


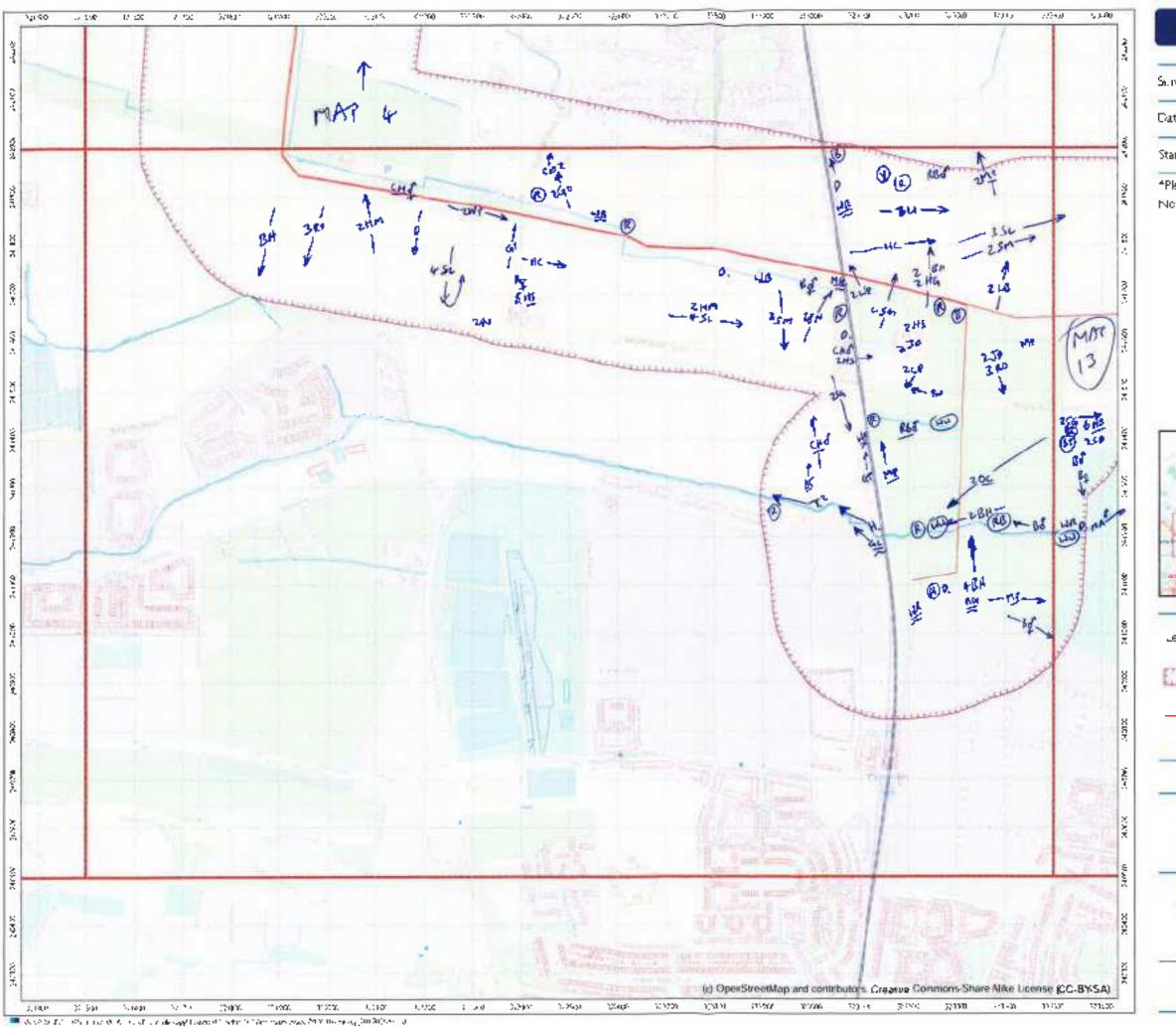
6BS/VVVO survey boundary (250 m. tuffer of route supplied 20170405 appended to previous boundary)

Pipe route (supplied 20170405).

Greater Dublin Drainage

Breeding/winter bird survey.







Shivepor N. Veal. 24/05/2017 End time: 1200 Start time 05/20

\*Please actach weather sheet

Notes



BBS/VVVO survey boundary (250 m. buffer of route supplied 20170405 appended to previous boundary)

Pipe route (supplied 20170405).

Greater Dublin Drainage

Breeding/winter bird survey

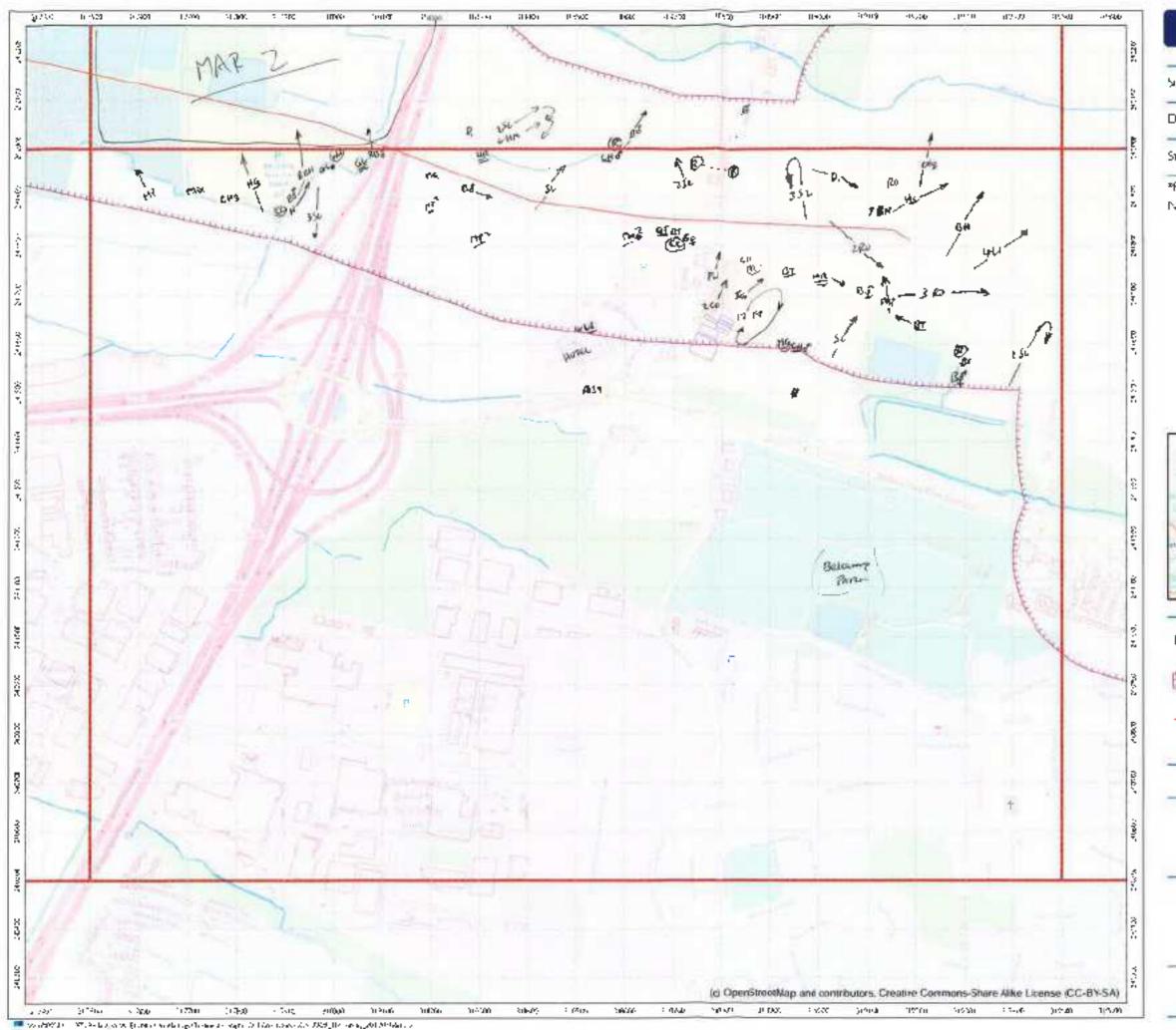
Page 12 of 18

200 m 5/46 17.500 (MA) Quist 06/04/2017 | [55/Not \$507909] Approve DRAFT

Distance Co.

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цепрыр анг



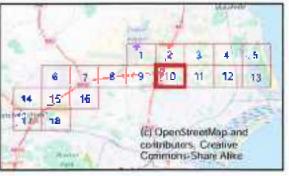
## RP

Date: 24 /05 2017

Shart time: 05:20 End time: 12:50

Phase attach weather sheet

Presse aftern weather sheet.





58S/MMO survey boundary (250 m buffer of route supplied 20170405 appended to previous boundary)

Pipe route (supplied 20170405).

Greater Dublin Drainage

Breeding/winter bird survey

Page 10 of 18

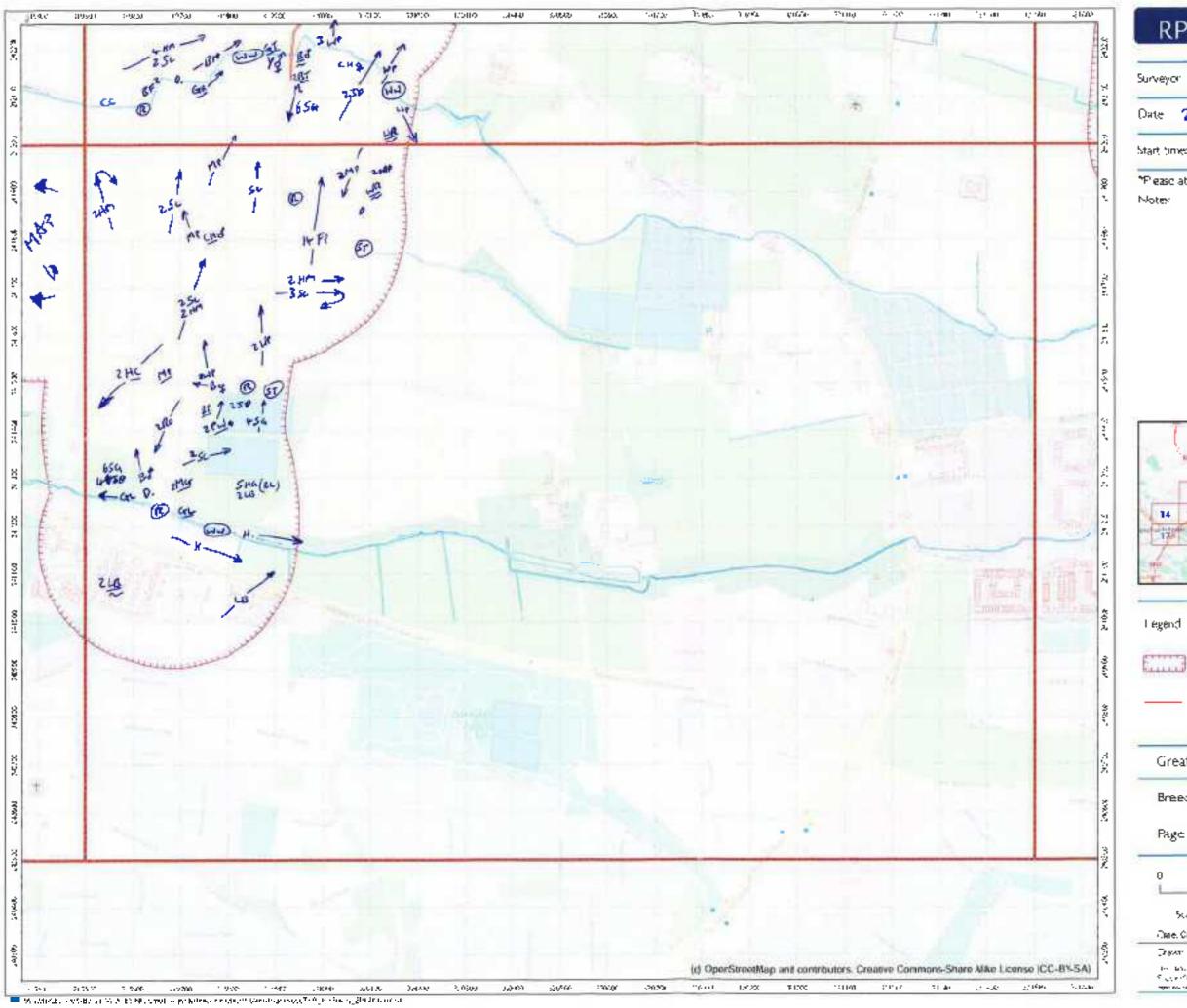
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Scale: 7500 (0A3)

Date: 2554/2017 | Job No. 5502000 | Res. 3

Date: CH | Onecked 20A/T | Appropriate DBAH I set talographic (PS) (257)

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Surveyor N. Veale End time. 121.≠0 Start times 05120

\*Please attach weather theet Notes



BBS/WWWD survey boundary (250 m. puffer of route supplied 20170405 appended to previous boundary). Pipe raute (supplied 20170405). Greater Dublin Drainage Breeding/winter bird survey. Page II of IB 200 im

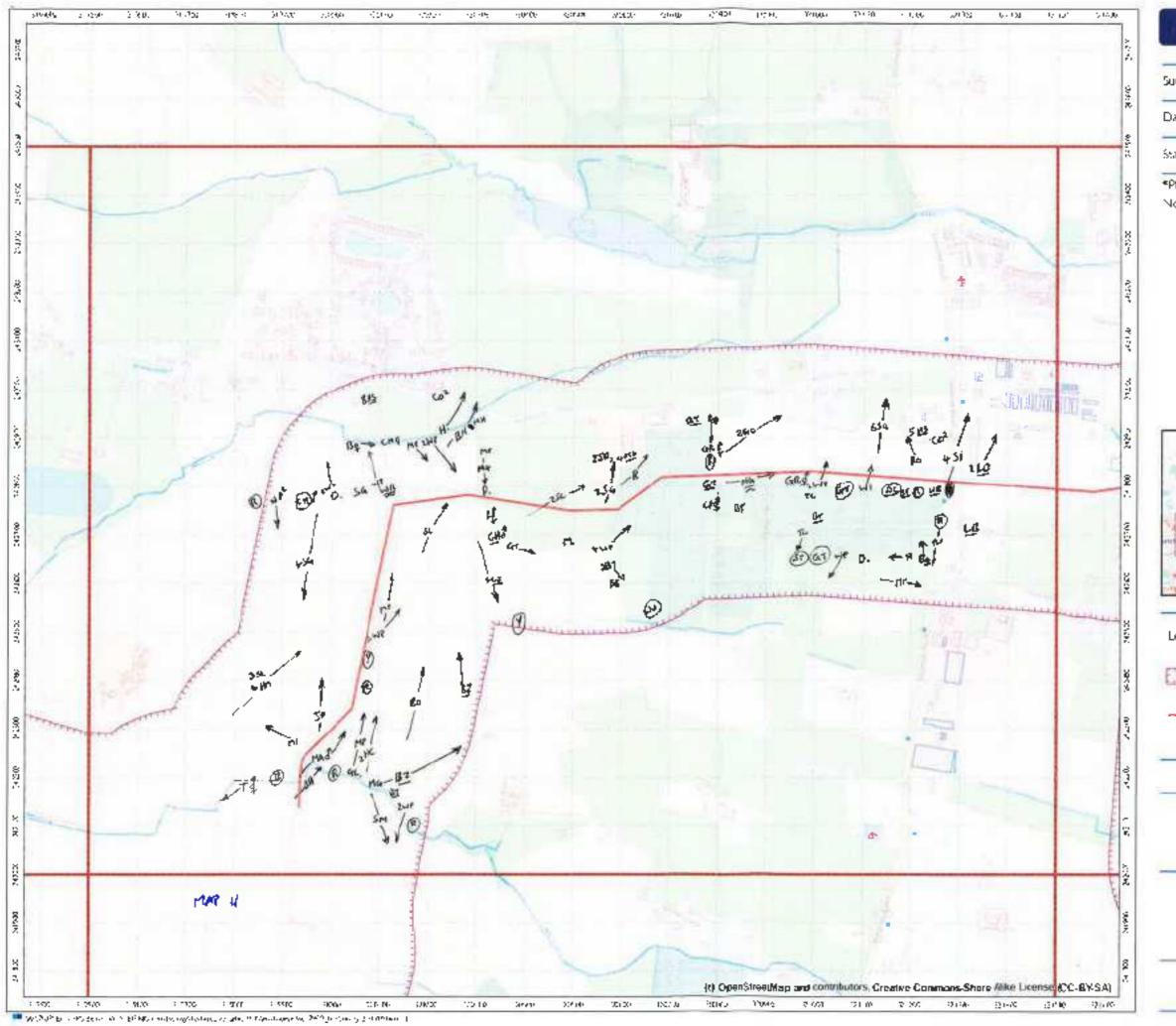
Ome. 06/94/2017 | Jub No. SEC7909 Dissan CH Charged CRAFT Approved CRAFT

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to the control of 10% 2992;  $S_{\rm exp}(\omega) = 0.05 \pm 0.05 \pm 0.05$  Specifically the detection of the Control of t

rphysical com-

RPS	*	Wenther Sheet	ž	WindSpee	Speed Boardor	5	Derection	Rain/Snow	ž.	Center	Claud Height	Visibility
#155	9	000		F. 5.			- ¥	None Drizzle/Mist	4 -	h nighter 6.0.30	Height of cloud above average	Poor (<1km) 0
Date	2	25/05/2017	211	Centra breeze	WB629 3	4 %	. B	Light showers Heavy chowers	WARTE 2		riewshed	Good (>3km) 2
Survey	1	<b>SKS&gt;</b>	V	Mod. breeze	4 9299	13.16	. 3	Minus min	1	i de	150.50m	
Observer		N. Veces		Strong breeze	reeze 6	, F. S.	*				-500m 2	
Start Time		08.30		Fresh gale	- 8	# # # # # # # # # # # # # # # # # # #	Ē	# . 연 년		Cround	Pleasabe as acc.	Hence be as accurate as possible, with
Finish Time		(2.10)		alegadon'y	n = 8.€	_		punció udia	Z pun		Act a range, ag, WS - 5, DK 5-6.	notice of the property of the injury. Note that the control of the property of
Sheet 1/	1.8	) Maps attached	ched	Stem	11 12	<b>1</b> 12					E.g. WG • 5, gusting 5 (in netes).	Billio. ngi5 (in netes).
Weather	Wind speed	Wind direction	Rain	Cloud	Cloud	Visibility	Frast	Show	Nolosfeg	Notas(e.g. fomperatura)	ĵę.	
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Hr 2	2	3	a	3/2	2	2	1	L <sub>20</sub>	160			
H 3	2	2	0	2119	Ų	4	1	1	2.91			
Hr 4	3	3	0	8/8	2	4		1	18.			
Hr 5									1000			
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Field Notes: Maps attected	# the cheef											
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Surveyor Nich Veale

Date 23/ 05/2017

Start time (18 on End time 17 on

\*Please attach weather sheet

Notes:





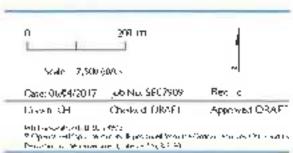
BBS/WWC survey boundary (250 m buffer of route supplied 20170409 appended to previous boundary)

Pipe route (supplied 20) 70405);

### Greater Dublin Drainage

Breeding/winter bind survey

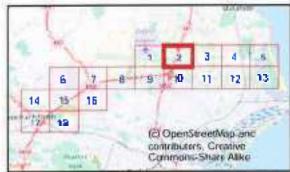
Page 3 of B





N. Veals 

\*Please attach weather sheet.



BBS/VMVO survey boundary (250 m. buffer of route supplied 20170405 appended to previous boundary)

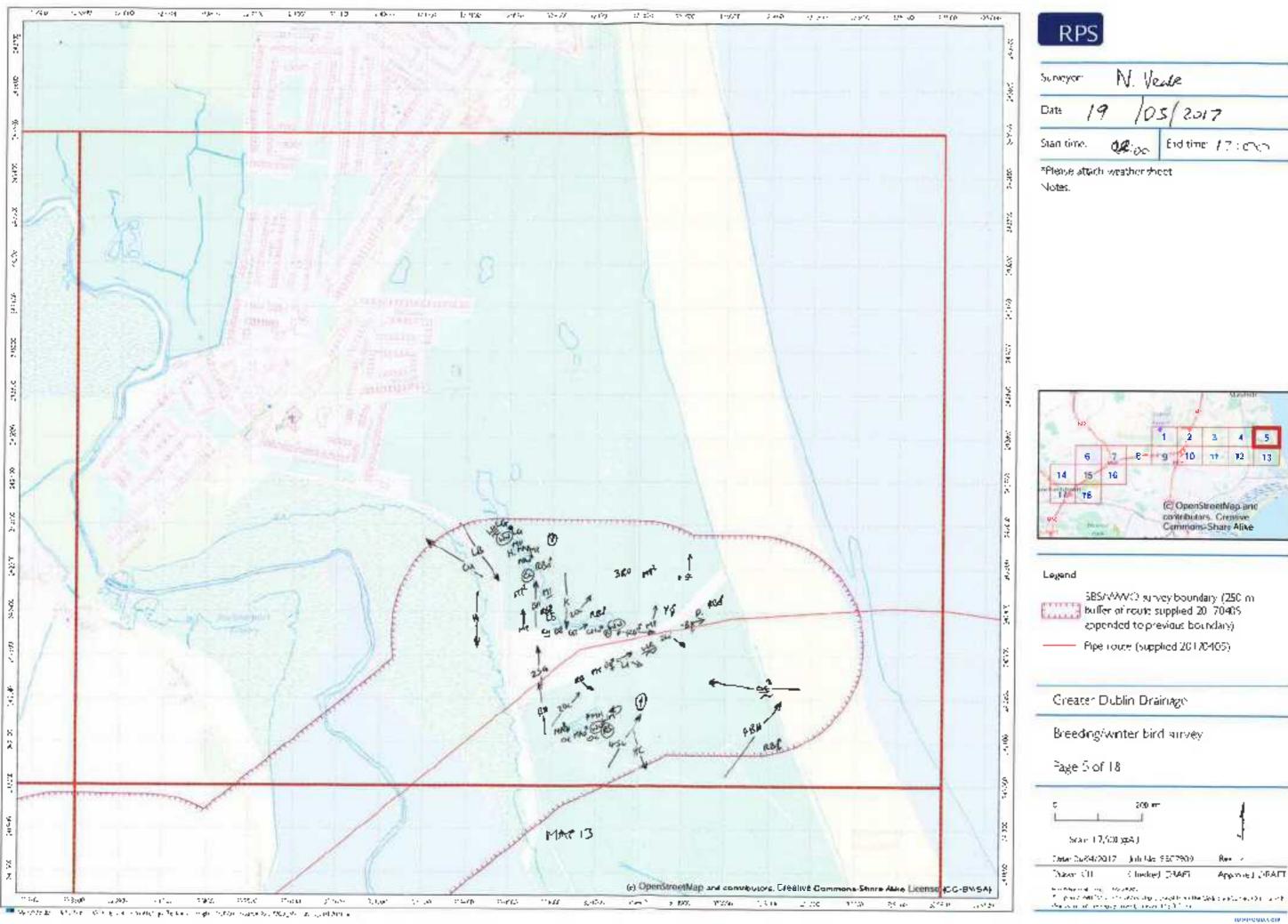
Pipe route (supplied 20170405).

Greater Dublin Drainage

Breeding/winter bird survey

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For office use only, NB- Initial <u>AND</u> data <u>ALL</u> books.	Haps Mached	8 H	Hr7	Hr6	Hr5	F-4	H 3	H 2	푸1	į	1	Finish Time	Start Time	Observer	Survey	Date	Site	ĘŞ.
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Logged						٤	ξ	S	SW	Wind direction	Maps attached	12:00	08:00	N. Veal	1303	19/05/2017	600	Weather Sheet
	Not at					0	O	Ģ	0	Rain	*Hed					7		<u>‡</u>
Databa						8/	372	3/9	2/4	Cloud	Humicane	Whole gate	Freshgale	Strong breeze	Freshbreeze	Light breeze	를 등 다음 1 등 다음	B Bridg
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N. Vede Enditime: 17 : engin

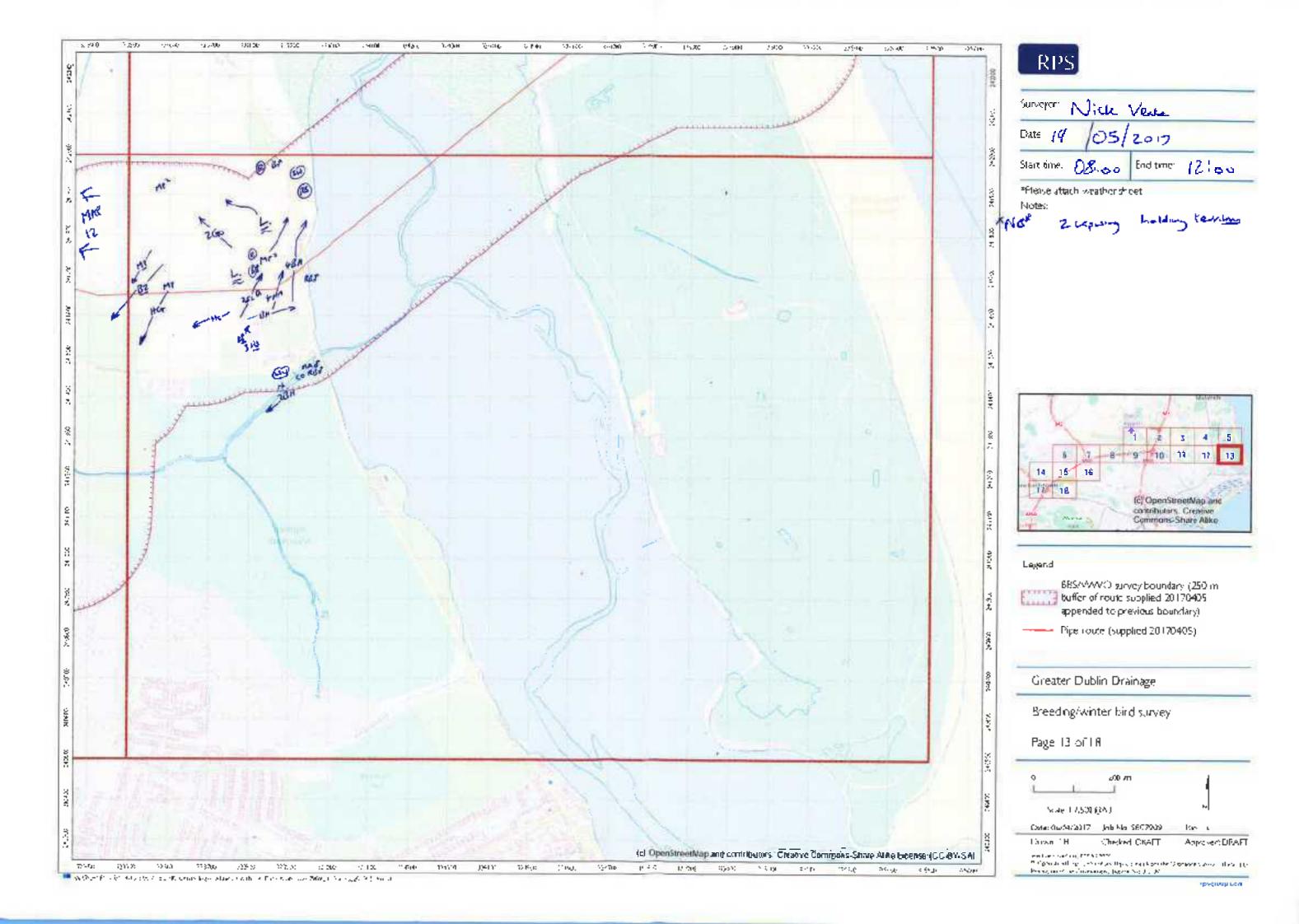


SBS/VAVO survey boundary (250 m. buffer at route supplied 20, 7040S expended to previous boundary).

Pipe route (supplied 20170405).

Cetar 0664/2017 | July Mei 9807909

Approved OFAIT Checkel DWFi

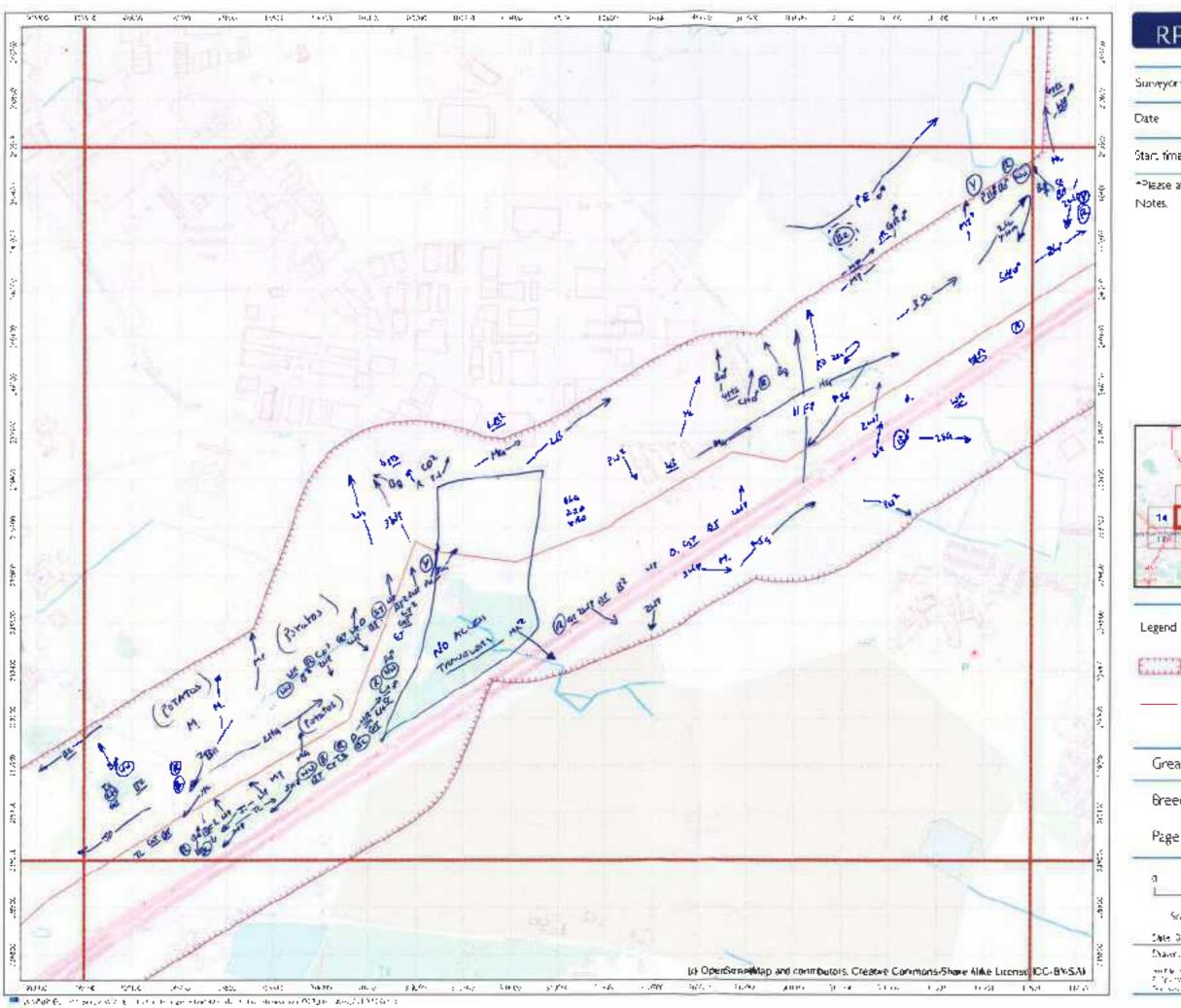


		eather Sh	H001	1441162	Speed Seau	kart Maph	Direction	Rain/\$	now	Cloud	Cloud Height	Visibility
Site	G	-00,		Çatim Ught a	0	1-3	N NE	None Drizzle/	D	in sighthe e.g. 3/8	Height of cloud above sverage	Poor ( <tion)< th=""></tion)<>
Date		2/05/2	417	Light to	reeze 2 breeze 3	4-7	E SE	Light sh	owers 2	B.g. 300	height of viewshed	Moderate (1-3km) Good (s-3km)
Survey		SES	- \/	Mod. b	MARA 4	13-14	S	Heavy r			<150m 0	
Observer		in Ves			breeze 6		SW W	Lying	Snow	Frost	150-500m 1 >500m 2	
Start Time		78.67		Mod. 9 Fresho	ake 7 male 8		MM/s	None On elte	0	None D Ground 1	Please be as acc	rate as poesible.
Finish Tim		2:53		5lrong Whole	gale 9			Hoh gr	ound 2	Allday 2	weather details, e not a range, e.g. t	menting they one in
	1.	Waps attr	had	Shorm Hurrica	1	1 6472					Use notes for extr E.g. W5 - 5, gusti	a info.
Weather	Wind speed	Wind direction	Rain	Cloud	Cloud height	2 73+ Visibility	Frost	Snow	Notes(e.g	. temperatu		- Paratrali
Hr 1	2	SE	0	4/2	2	2		_	13°C			
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Hr 4	3	SE	0	7/8	2	2			18°C			
Hr 5												
Hr 6												
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Field Notes: Maps atty									,			

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Surveyor N. Venle 22/05/2017+19/05/217

Start fine 08 09

End time. 12:00

\*Please attach weather sheet



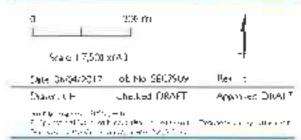
BBS/MMO survey boundary (250 m. buffer of route supplied 20170485 appended to previous (insundary).

Applicate (supplied 20170405).

Greater Dublin Drainage

Breeding/winter bird survey.

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Surveyor Nick Veller

Date: 22/05/2017

Start time: 08'00 | Sinc time [2], 00

\*Floase attach weather sheet

Note::

Dipper nearly water N3 Bridge H



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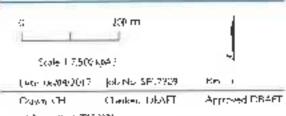
buffer of route supplied 20, 70465 appended to provious boundary!

Pipe route (rupplied 20170405).

Greator Dublin Brainage

Breeding/winter bird survey

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