

Longford County Council

Winter Service Plan 2017

Introduction

- Longford County Council is responsible for the maintenance of over 1600km of National, Regional and Local Roads throughout the County.
- The term 'Winter Service' relates to those activities undertaken by Longford County Council to minimise the impact of frost, ice or snow on the travelling public. Winter service is not an emergency service in that low temperatures, frost, ice and snow are frequent and reasonably predictable occurrences.
- This Winter Service Plan provides the framework for dealing with winter weather conditions on the roads and provides for a planned and co-ordinated response by Longford County Council.
- The Plan takes cognisance of the guidance and best practices provided by the National Roads Authority (NRA) in the Winter Service Manual which it issued in draft format ahead of the 2010/2011 winter season.
- The Winter Service Period is usually from the middle of October to the middle of April.
- A review and update of Winter Service Operations is undertaken each year before the start of the next Winter Season.
- The objective of the winter maintenance programme is to provide so far as is reasonably practical for the safe movement of road users on the National Roads and other strategic routes identified during adverse weather conditions.
- As it not feasible to treat all public thoroughfares, it is necessary to create a schedule of route prioritisation. Routes are designated a priority rating of between 1 and 3 based upon the road classification, the traffic volume carried, public transport usage etc and the importance of the route on a national, regional or local level.
- Priority 1 Routes (National) and Priority 2 Routes Regional & some Local Roads are pre-salted. They receive precautionary treatment, where salt is spread following warnings of expected low temperatures, in order to reduce the likelihood of frost and ice forming on the road.
- Priority 3 routes are post-salted as resources allow. This is a response based service where routes are treated during normal working hours if they become impassable and where resources are available.
- Footpaths are not generally salted by Longford County Council. However during prolonged periods of severe weather footpaths may be salted subject to available resources.

A1 Document Control

Revision	Status	Revision Details	Date
A	Final	Minor Alterations to the Winter Service Plan 2016	11/10/17

A2 Approval List

Role	Name	Signature	Date
Author	E. Bennett, SEE		11/10/17
Checker	David Tubridy, SE		11/10/17
Winter Service Manager	Eamon Bennett, SEE		11/10/17
Director of Services for Transportation	John Brannigan, DOS		11/10/17

A3 *Distribution List*

ISSUED TO	ORGANISATION	LOCATION
DUTY ENGINEERS	LONGFORD CO. CO.	LONGFORD
WINTER SERVICE SUPERVISORS		LONGFORD
DRUMLISH AREA	LONGFORD CO. CO.	ESKER
GRANARD AREA	LONGFORD CO. CO.	GRANARD
LONGFORD AREA	LONGFORD CO. CO.	BALLAGH
BALLYMAHON AREA	LONGFORD CO. CO.	TOOME
HEALTH & SAFETY OFFICER	LONGFORD CO. CO. DEPT OF TRANSPORT	LONGFORD
WINTER MAINT'CE MANAGER	NRA	DUBLIN
<u>SENIOR ENGINEER</u>		
SHAY O'CONNOR	LEITRIM CO. CO.	CARRICK ON SHANNON
BRENDAN JENNINGS	CAVAN CO. CO.	CAVAN
EUGENE DWYER	ROSCOMMON CO. CO.	ROSCOMMON
MICHAEL KELLY	WESTMEATH CO. CO.	MULLINGAR
DAVID TUBRIDY	LONGFORD CO.CO	LONGFORD
HEAD OF FORECASTING	MET ÉIREANN	GLASNEVIN, DUBLIN

A4 *Purpose and Scope*

“The purpose of this document is to identify the processes, procedures and key personnel employed by Longford County Council, to deliver the winter service for County Longford”

A5 *Policy*

During winter months Longford County Council monitor road conditions and in the event of frost and snow Longford County Council implements a winter gritting programme based on an agreed priority schedule.

ROUTE DESIGNATION	DESCRIPTION	LEVEL OF SERVICE
Priority 1	N4 N5 N55 N63	Road to be treated during all weather events - (106 km)
Priority 2	R-194 R-198 R-395 R-392 R-393 R-396 R-397 R-398 R-399 L-1051 L-1048 L-1066 L-1042 L-1029 L-1057 L-1028 L-1155 L-1050 L-1099 L-1096 L-5196 L-1098 L-5187 L-1108 L-1150 L-1127 L-1118 L-1091 L-1086 L-1122 L-1103 L-1147 L-1056 L-1042 L-5187 L-1065 L-1027 L-1100 L-1053 L-1044 L-1050 L-1040 L-1032 L-3001 L-3002 L-3003 L-3004 L-3005 L-3006 L-3007 L-3008 L-301 L-3015 L-3017 L-3018 L-30033 L-7001 L-7003 L-7008 L-7009 L-70095 L-70097 L-70098 L-7011 L-7012 L-7013	Roads to be treated as part of the normal winter service but may have interruptions to treatment in certain severe weather events or due to budgetary constraints - Regional Roads – (155km) - Selected Local Roads – (104 km) Note: The length of some Local roads listed here may only be partially treated. See map in appendix for greater detail of roads treated.
Priority 3	Routes that can be kept serviceable once Priority 1 & Priority 2 routes have been treated if resources allow	Not treated as part of the normal winter service but may receive intermittent treatment during certain severe weather events

Treatment Route	Priority 1	Priority 2	Priority 3
Mobilisation Time	1 hr	1 hr	1hr
Treatment Time	2-3 hr	2-4 hrs	6-8 hrs

A6 Overall Map of the Service Plan Area

See attached Priority Salting Route Map – Appendix 2

A7 Rosters

- Longford County Council does not operate a roster system for drivers but reserve drivers available .
- Duty Engineers are on a roster system.

ROLE	NAME	ROUTE DESIGNATION	ROUTE SALTED
Duty Engineer	E Bennett, SEE		
Duty Engineer	Brian McNeela, EE		
Duty Engineer	David Coppinger SEE		
Driver	G DAVIS	PRIORITY 2 & 3	R392, R397, R398, L1155, L1147, L1150
Driver	P FINNAN	PRIORITY 1 & 2	N55, L 11721, L 1173, R399, R393, L 1103, L5187, L1099, L 1096
Driver	G.KENNY	PRIORITY 1 & 2	N4, N5, L1175, L3026, L3025, L1171, L1170
Driver	T MOLLAGHAN	PRIORITY 1 & 2	N63, L3016, L-1148, L-5270, L1127, L1122, L-1118,, L1108, L5196, R393, L-1098, L1100, R194, L1040
Driver	T DUFFY	PRIORITY 2 & 3	R194, R198, L1029, L1028, L1042, L1044, L1048, L1051, L1053, L1056, L5072, L1032, L1018, L-1011, L5038, L1010
Driver	L.HEBRON	PRIORITY 2 & 3	R194, R395, R396, L-1056, L-1065, L-1086, L-1091, L 5133 L 5128, L-1069, L-1066, L-1057, L1050, L 1077
Driver	O.McDERMOTT	PRIORITY 2 & 3	L-3001, L-3002, L-3003, L-3004 L-3005, L-3006, L-3007, L-3008, L-3013, L- 3014, L-3015, L-3017, L-3018, L-30033, L-7001, L-7003, L-7008, L-70052, L-70094, L-7004 L-7009, L-7011, L-7012, L-7013 L-70095, L-70097, L-70098, R-198, R-393

General Service Supervisors are available on a rostered basis to deal with emergency calls .

A8 Contact Details

CONTACT:	TELEPHONE NO:												
Technical support for Bureau Weather Service	Met Éireann Headquarters Glasnevin Hill Dublin 9, Ireland Tel: +353-1-8064200 Fax: +353-1-8064247 HQ location map on the right												
Garda Stations (24 hour No.)	<table> <tr> <td>Garda Station, Longford</td><td>(043) 3350570</td></tr> <tr> <td>Garda Station, Granard</td><td>(043) 6687660</td></tr> <tr> <td>Garda Station, Ballymahon</td><td>(09064) 32303</td></tr> <tr> <td>Garda Control, Mullingar</td><td>(044) 93 84000</td></tr> <tr> <td>Garda Control, Athlone</td><td>(09064) 98550</td></tr> <tr> <td>Garda Control, Carrick-on-Shannon</td><td>(071) 9650510</td></tr> </table>	Garda Station, Longford	(043) 3350570	Garda Station, Granard	(043) 6687660	Garda Station, Ballymahon	(09064) 32303	Garda Control, Mullingar	(044) 93 84000	Garda Control, Athlone	(09064) 98550	Garda Control, Carrick-on-Shannon	(071) 9650510
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Garda Control, Athlone	(09064) 98550												
Garda Control, Carrick-on-Shannon	(071) 9650510												
Duty Engineers (Longford County Council) Eamon Bennett David Coppinger Brian McNeela	(043) 3346231 <i>(Out of Hours Emergency No.) – 1850 211525</i>												
Leitrim Duty Engineer	See appendix 1 for duty engineer data for Leitrim												
Cavan Duty Engineer	See appendix 1 for duty engineer data for Cavan												
Westmeath Duty Engineer	See appendix 1 for duty engineer data for Westmeath												
Roscommon Duty Engineer	See appendix 1 for duty engineer data for Roscommon												
Ambulance	Ambulance Control, Longford 999/112 (043) 3346211 Mullingar General Hospital (044) 9340221												
Fire Department, Longford	Declan Kilcline, Chief Fire Officer Ph: (043) 3347136 Fax:(043) 3341985 Marie Lough, Asst. C.F.O. Ph:(043) 3347136 Fax:(043) 3341985 Tomas O'Maonaigh, Asst. C.F.O. Ph: (043) 3347136 Fax: (043) 3341985 Emergency Phones No.'s 999/112												

WINTER SERVICE PLAN RESOURCES

STAFF	PLANT
Staffing for National & Local Roads winter gritting – 1 depot with 2 men for teleporter duties and 6 drivers for gritting duties.	7 Trucks
	6 Truck mounted demountable Stainless Steel Gritters
	1 Truck mounted demountable Stainless Steel Gritter
	2 Snow Ploughs
	1 Teleporter
(Out of Hours Emergency No.) – 1850 211525	OFFICE NO: (043) 3346231

ADDITIONAL RESOURCES - NORTH AREA

STAFF	PLANT
Remainder of normal Staffing – 18 men,	4 Pickup trucks with crew cabs
2 GSS and 2 technical staff.	2 20 ton trucks
1 GSS is on call.	4 JCBs
(Out of Hours Emergency No.) – 1850 211525	OFFICE NO: (043) 3346231

ADDITIONAL RESOURCES - SOUTH AREA

STAFF	PLANT
Remainder of normal Staffing - 13 men,	4 Pickup trucks with crew cabs
2 G.S.S and 2 technical staff.	2 JCBs
1 GSS is on call.	
(Out of Hours Emergency No.) – 1850 211525	OFFICE NO: (043) 3346231

ADDITIONAL RESOURCES - MID AREA

STAFF
Remainder of normal Staffing – 16 men, 1 G.S.S and 2 technical staff. 1 GSS is on call.
<i>(Out of Hours Emergency No.) – 1850 211525</i>

PLANT
4 Pickup trucks with crew cabs
1 20 Ton truck
2 JCBs,
OFFICE NO: (043) 3346231

A10 Decision Matrix

The following table is the decision matrix guideline that the duty Engineers will refer to.

Road Surface Temperature	Precipitation	Predicted Road Conditions		
		Wet	Wet Patches	Dry
May fall below 1°C	No rain No hoar frost No fog	Salt before frost	Salt before frost (see note a)	No action likely, monitor weather (see note a)
Expected to fall below 1°C	No rain No hoar frost No fog		Salt before frost (see note b)	
	Expected hoar frost Expected fog	Salt after rain stops (see note c)		
	Expected rain before freezing	Salt before frost, as required during rain and after rain stops (see note d)		
	Expected rain during freezing			
	Possible rain Possible hoar frost Possible fog	Salt before frost	Monitor weather conditions	
Expected Snow		Salt before snow fall		
The decision to undertake precautionary treatments should be, if appropriate, adjusted to take account of residual salt or surface moisture.				
All decisions should be evidence based, recorded and require careful monitoring and review.				

Notes:

- (a) Particular attention should be given to the possibility of water running across carriageways and other running surfaces e.g. surface water off adjacent fields after heavy rains, washing off salt previously deposited. Such locations should be closely monitored and may require treating in the evening and morning and possible other occasions. Ideally the source of the run-off should be diverted from the roadway.

- (b) When a weather warning contains reference to expected hoar frost, considerable deposits of frost can occur. Hoar frost usually occurs in the early morning and is difficult to cater for because of the probability that any salt deposited on a dry road too soon before its onset, may be dispersed before it can become effective. Careful monitoring is required under this forecast condition which should ideally be treated just as the hoar frost is forming. Such action is usually not practicable and salt may have to be deposited on a dry road prior to but as close as possible to the expected time of the condition. Hoar frost may also be forecast at other times of the day, in which case the timing of salting operations should be adjusted accordingly.
- (c) If under these conditions, rain has not ceased by early morning, crews should be called out and action initiated as rain ceases.
- (d) Under these circumstances rain will freeze on contact with running surfaces and full precautionary treatment should be provided even on dry roads. This is a most serious condition and should be monitored closely and carefully throughout the danger period.

A11 Treatment Matrix

The following table is the guideline for spreading dry unmodified salt which the Duty Engineers will refer to.

Treatment Matrix Guide for Dry Unmodified Salt

Weather Conditions	Treatment		
Road Surface Conditions	Air	Salt Spread Rate	Ploughing
Road Surface Temperature (RST)	Temperature	(gm/m²)	
Frost or forecast frost RST at or above -2°C		20 Also refer to Notes (b) & (e)	No
Frost or forecast frost RST below -2°C and above -5°C		20	No
Frost or forecast frost RST below -5°C and above -10°C and dry or damp road conditions		20	No
Frost or forecast frost RST below -5°C and above -10°C and wet road conditions (existing or anticipated)		2 runs X 20	No
Light snow forecast (<10mm)		20	No

Weather Conditions	Treatment		
Road Surface Conditions	Air	Salt Spread Rate	Ploughing
Road Surface Temperature (RST)	Temperature	(gm/m ²)	
Forecast for Medium/heavy snow or a freezing rain forecast		2 runs X 20	No
Ice formed	Above -5°C	20	Not possible
Ice formed	At or below -5°C	2 runs X 20	Not possible
Snow covering exceeding 30mm		20 to supplement ploughing, up to 40 if temperatures are falling	Required
Snow accumulations due to prolonged falls		20 to 40 to supplement ploughing	Required
Hard packed snow/ice	Above -8°C	Successive treatments at 20 to 40 supplemented by abrasives (repeat as needed)	Not possible
Hard packed snow/ice	At or below -8°C	Successive treatments at 20 to 40, supplemented by abrasives (repeat as needed)	Not possible
Sustained low temperatures	Below -10°C	Refer to Section	

Notes:

- (a) Rate of spread for precautionary treatments may be adjusted to take account of variations occurring along the route such as residual salt, surface moisture (in the air or on the road surface) and traffic density.

- (b) For salt stored outside, it may be necessary to increase the spread rate for precautionary treatment salting from 10gm/m² to 15-20gm/m².
- (c) All decisions should be forecast based, recorded and require careful monitoring and review.
- (d) Ice refers to all ice on the road surface, including black ice.
- (e) Longford County Council's minimum rate of spread of salt is 20gm/m² and not 10.

Target Spread Rates by Location

Location	Salt Spread Rate
Carriageways	As described in the Treatment Matrix Guideline
Hard shoulder or carriageway marginal strips	50% of selected treatment
Porous Surfacing	<u>Plus</u> 25% of selected treatment
Footways, cycle tracks and pedestrian areas	25 gm/m ²

A12 Plant, Vehicles and Equipment

“Longford County Council operates 7 demountable mounted salt spreaders and 2 snowploughs to deliver the winter service.”

Description (List each piece of equipment on its own line, & its registration plate, if applicable)	Depot Location	Capacity	Date Calibrated	Date Serviced	Date of next Calibration	Date of next Service
2 Demountable salt spreaders	Yard	6m ³	Sept 2017	Sept 2017	Sept 2018	Sept 2018
2 Demountable salt spreaders	Yard	6 m ³ 9 m ³	Sept 2017	Sept 2017	Sept 2018	Sept 2018
2 Demountable salt spreaders	Yard	6 m ³	Sept 2017	Sept 2017	Sept 2018	Sept 2018
1 Demountable salt spreader	Yard	3 m ³	Sept 2017	Sept 2017	Sept 2018	Sept 2018

Snowploughs & Loading Shovels	Depot Location	Fitted to	Date Serviced	Date of next Service
List each snowplough & loading shovel, and a unique identifier	Longford	Lorry as required	Mar 2011	N/A
List each snowplough & loading shovel, and a unique identifier	Longford	Lorry as required	Mar 2011	N/A

A13 Details of Depots

Salt Depot	Total Capacity Storage Outdoor (Tonnes)	Salt Type & Grade	Depot Storage Capacity (tonnes)	Salt in Storage (tonnes)	Storage Available
Longford	-	Fine	900	900	0

A14 Materials and Spares

The Duty Engineers will order salt on the National Salt Management System in conjunction with the Roads Management Office liaison staff. Orders will be sent to salt@nra.ie

The machinery yard engineer will order spare parts for the winter service plant and equipment as needed .

APPENDICES

1 - 4

APPENDIX 1

DUTY ENGINEERS

FOR

ADJOINING COUNTIES

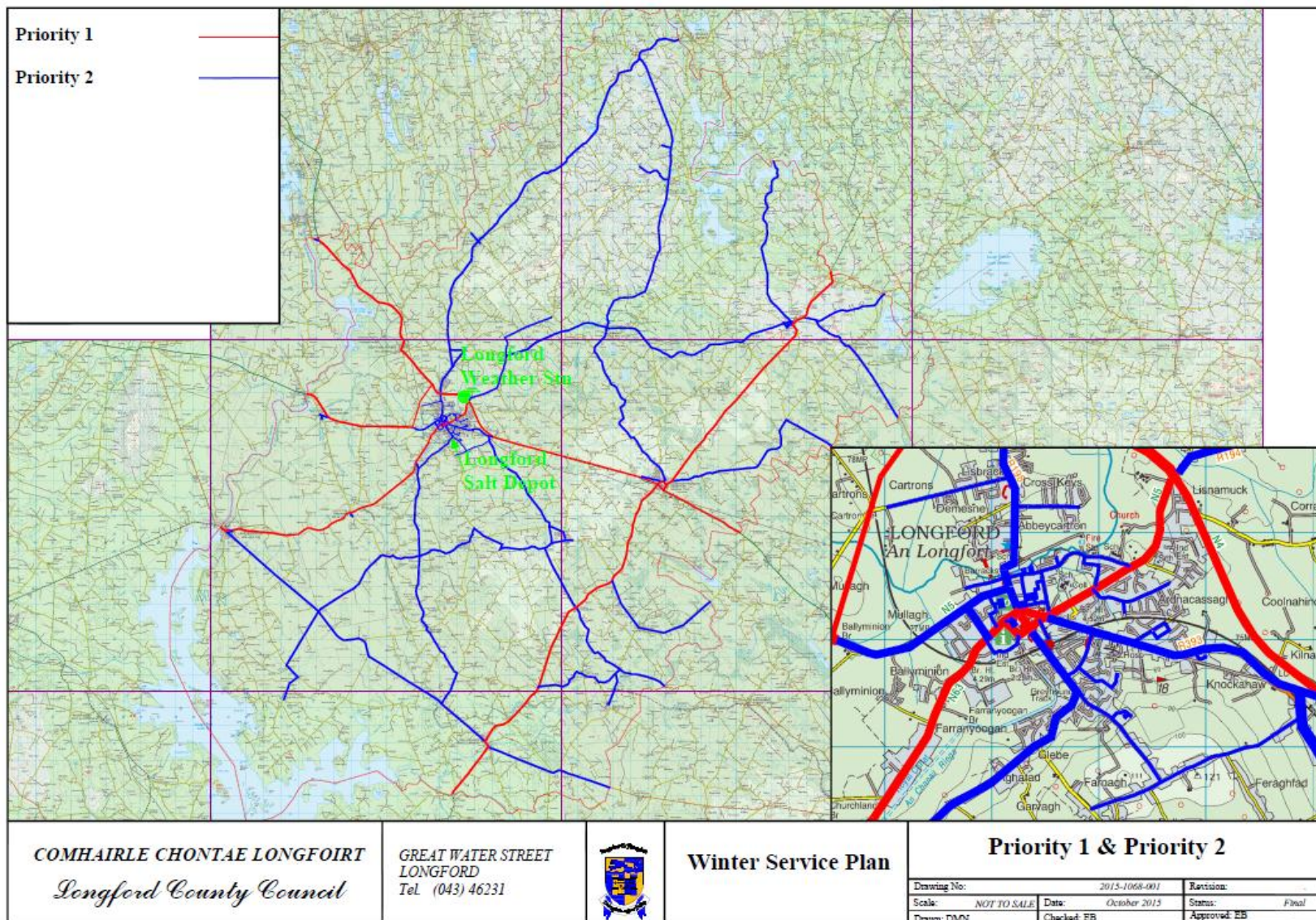
Duty Engineer's Name	Office Phone No.	Office E-mail Address
Bernard Groenewald	(044) 9332280	bgroenewald@westmeathcoco.ie
Michael Kelly	(044) 9332063	mkelly@westmeathcoco.ie
Pat Kavanagh	(044) 9332151	pkavanagh@westmeathcoco.ie
Tony Buckley	(044) 9332176	abuckley@westmeathcoco.ie
Liam Galvin	(044) 9332206	liam.galvin@westmeathcoco.ie
Kevin Sexton (KS)	(049) 8547013	ksexton@cavancoco.ie
Michael Jackson (MJ)	(049) 4378477	mjackson@cavancoco.ie
Eugene Dwyer (ED)	(090) 6637128	edwyer@roscommoncoco.ie
Ivor Kilcline	(090) 6637220	ikilcline@roscommoncoco.ie
Anthony McDermott	(090) 6637212	amcdermott@roscommoncoco.ie
John Quigley	(071) 9633016	jquigley@roscommoncoco.ie
Neal Geraghty (NG)	na	nealg@roscommoncoco.ie
Shay O'Connor (SOC)	071 9620005	soconnor@leitrimcoco.ie
Darragh O'Boyle (DOB)	071 9645356	doboyle@leitrimcoco.ie

APPENDIX 2

PRIORITY SALTING ROUTES

FOR

COUNTY LONGFORD

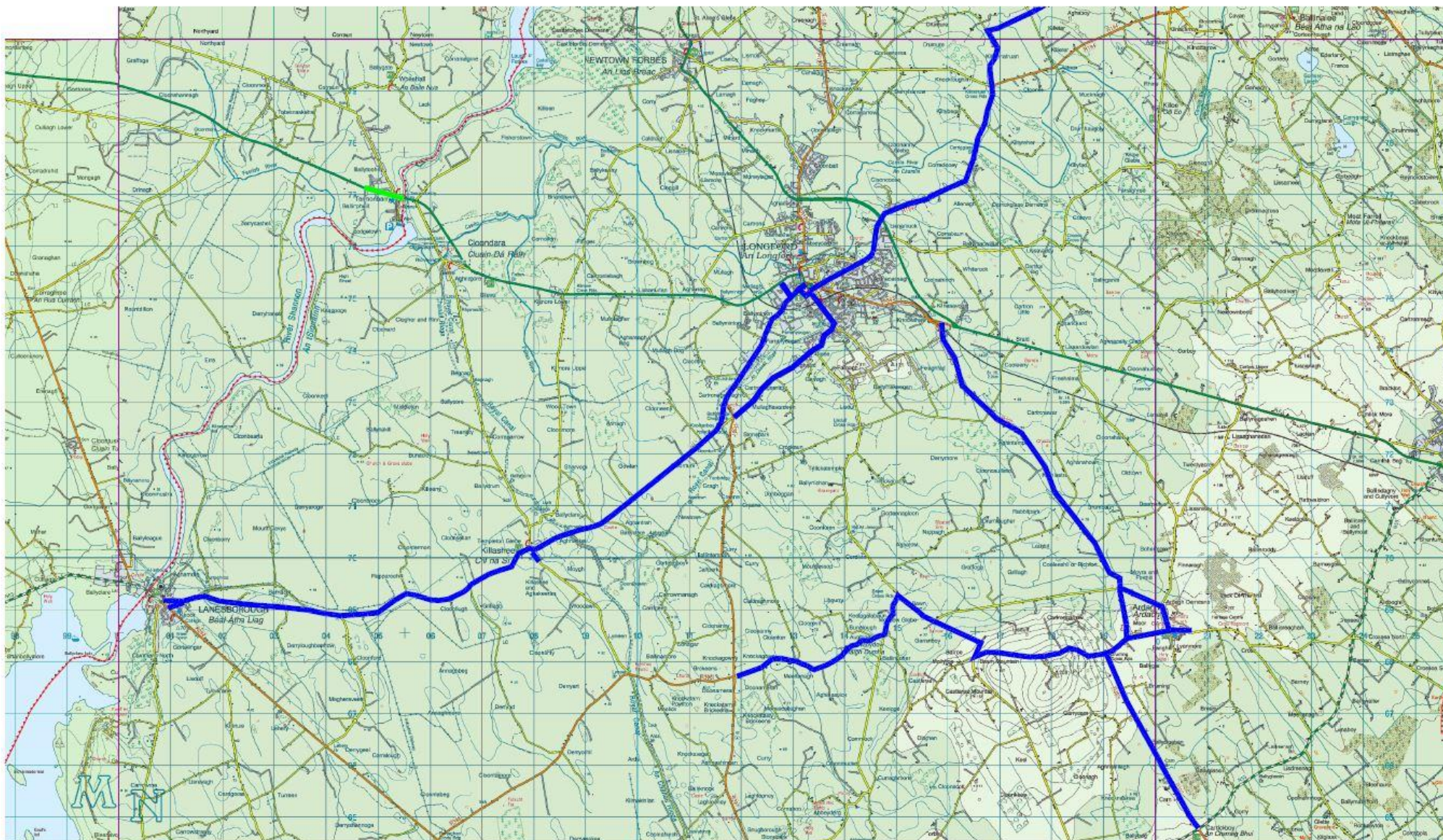


APPENDIX 3

DRIVER SALTING ROUTES

FOR

COUNTY LONGFORD



COMHAIRLE CHONTAE LONGFOIRT
Longford County Council

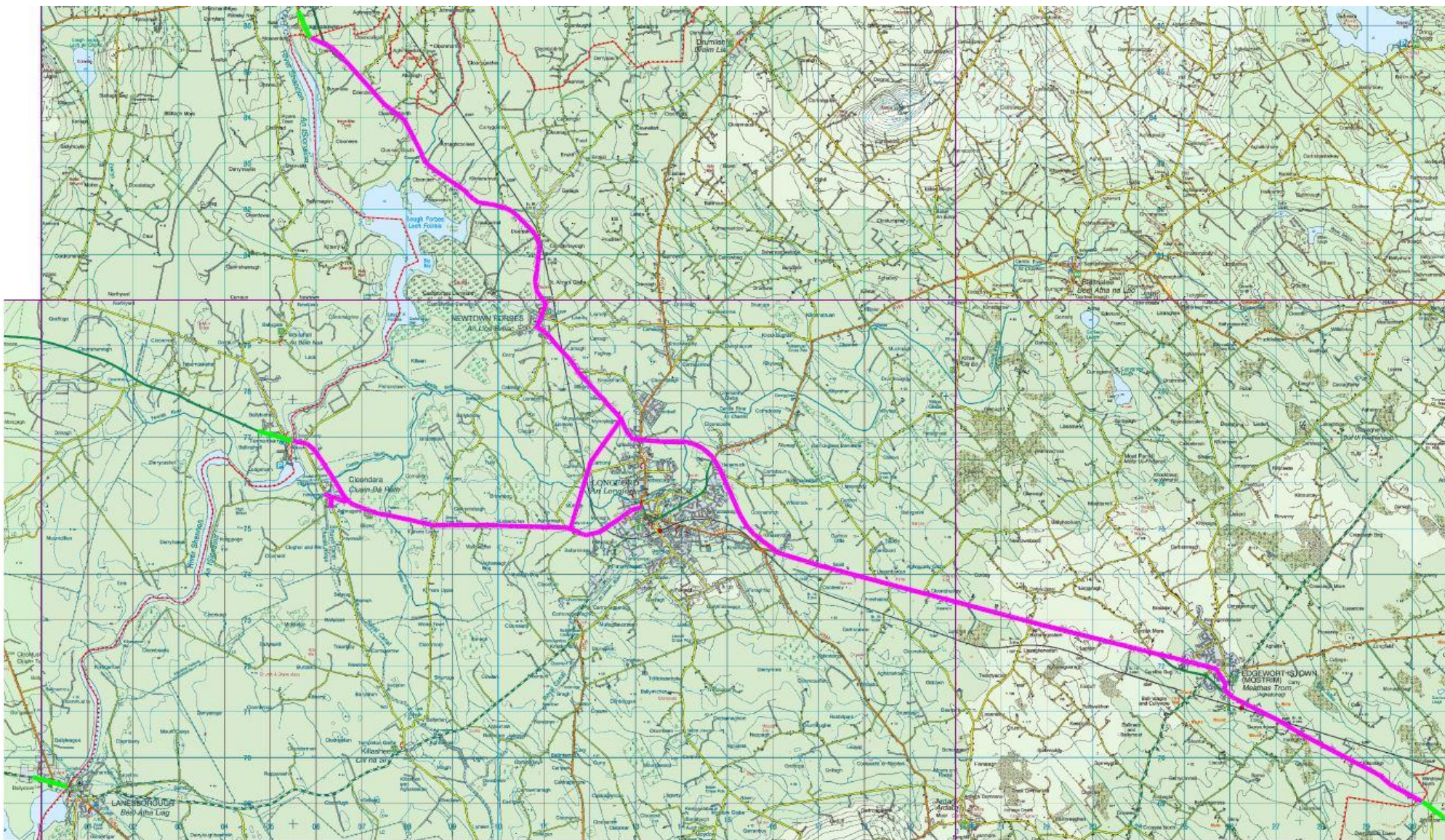
**GREAT WATER STREET
 LONGFORD**
 Tel. (043) 46231



Full Salting

Tommy Mollaghan

Drawing No:	005	Revision:	A
Scale:	NOT TO SCALE	Date:	Oct 2017
Drawn:	Checked:	Status:	Issue
		Approved:	



COMHAIRLE CHONTAE LONGFOIRT
Longford County Council

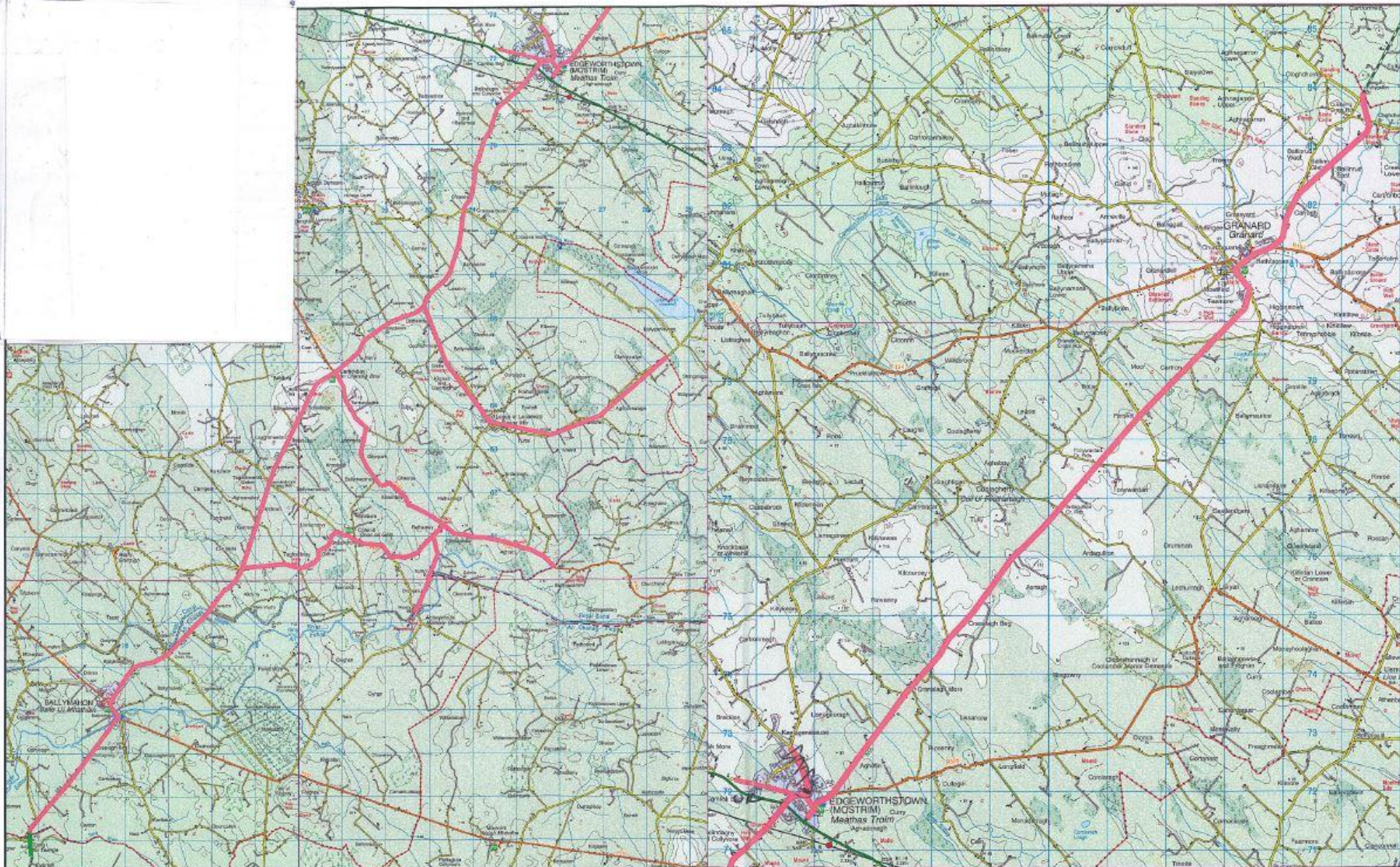
**GREAT WATER STREET
 LONGFORD**
 Tel. (043) 46231



Full Salting

Ger Kenny

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Drawn:		Status:	Issue
		Checked:	
		Approved:	



COMHAIRLE CHONTAE LONGFOIRT
Longford County Council

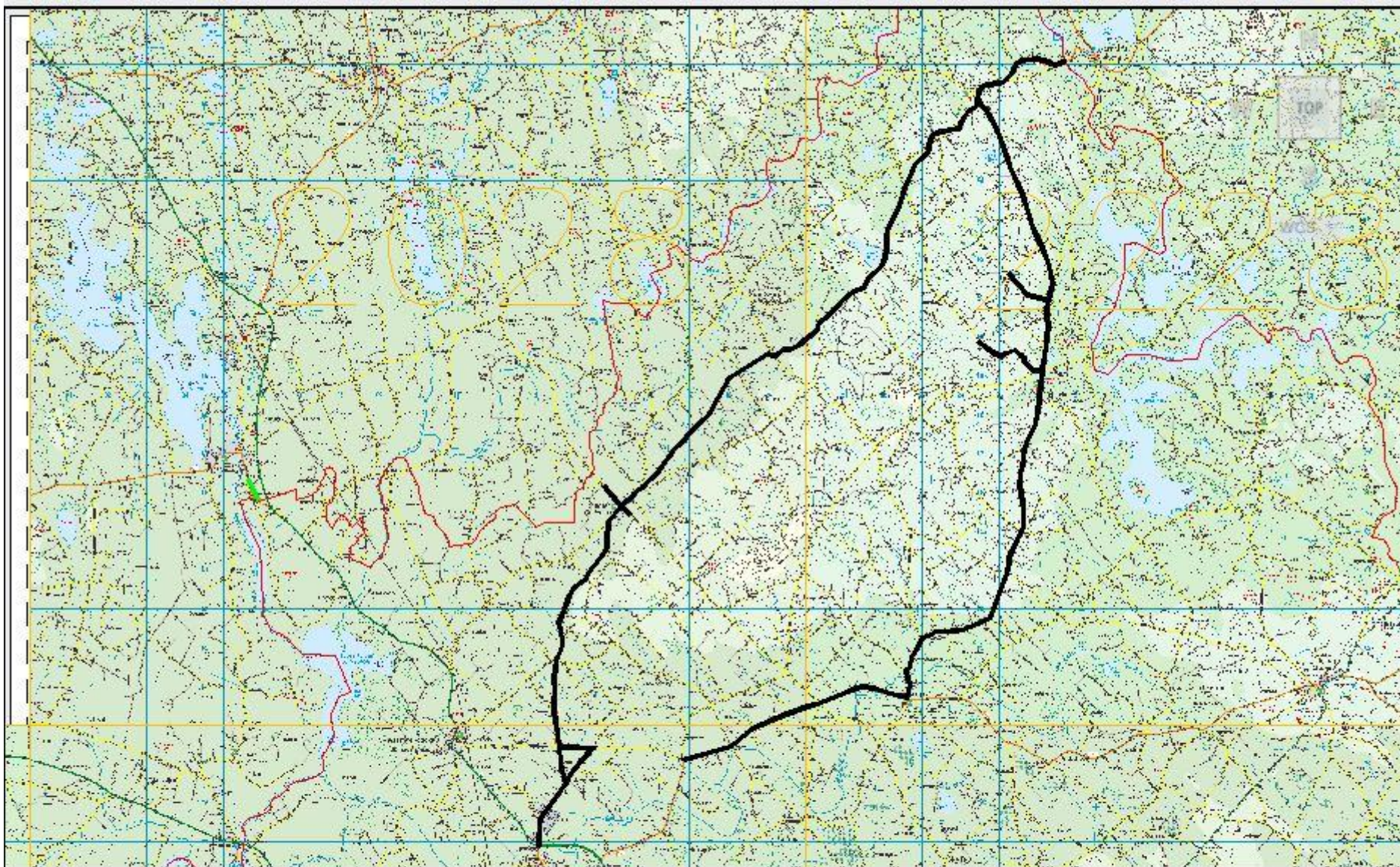
GREAT WATER STREET
 LONGFORD
 Tel. (043) 46231



Full Salting

Paul Finnan

Drawing No:	007	Revision:	A
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Drawn:		Status:	Issue
Checked:		Approved:	



COMHAIRLE CHONTAE LONGFOIRT
Longford County Council

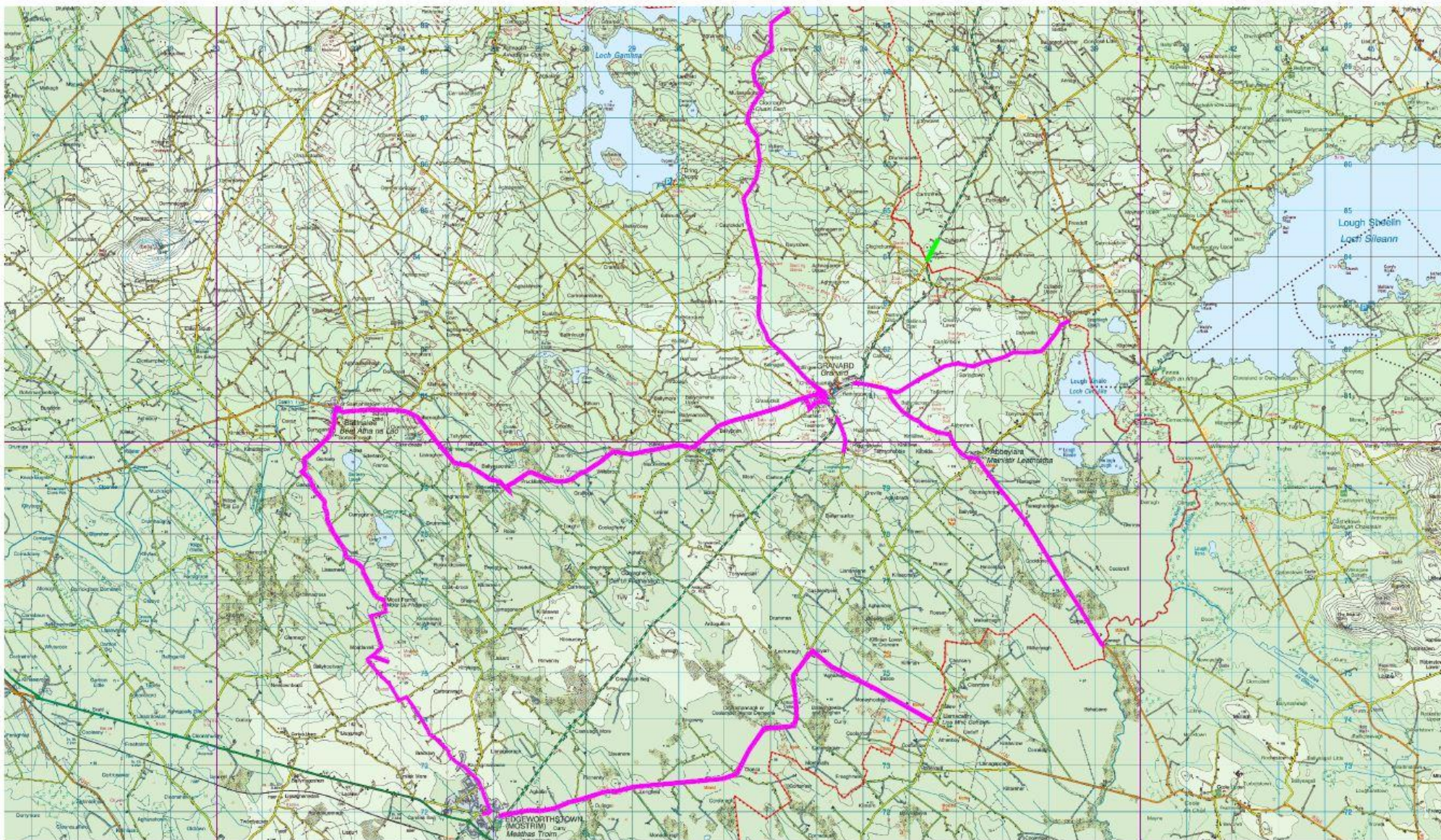
GREAT WATER STREET
 LONGFORD
 Tel. (043) 46231



Full Salting

TOMMY DUFFY

Drawing No.	005	Revision	A
Scale	NOT TO SCALE	Date	Oct 2017
Drawn	Checked	Drawn	Issue
		Approved	



COMHAIRLE CHONTAE LONGFOIRT
Longford County Council

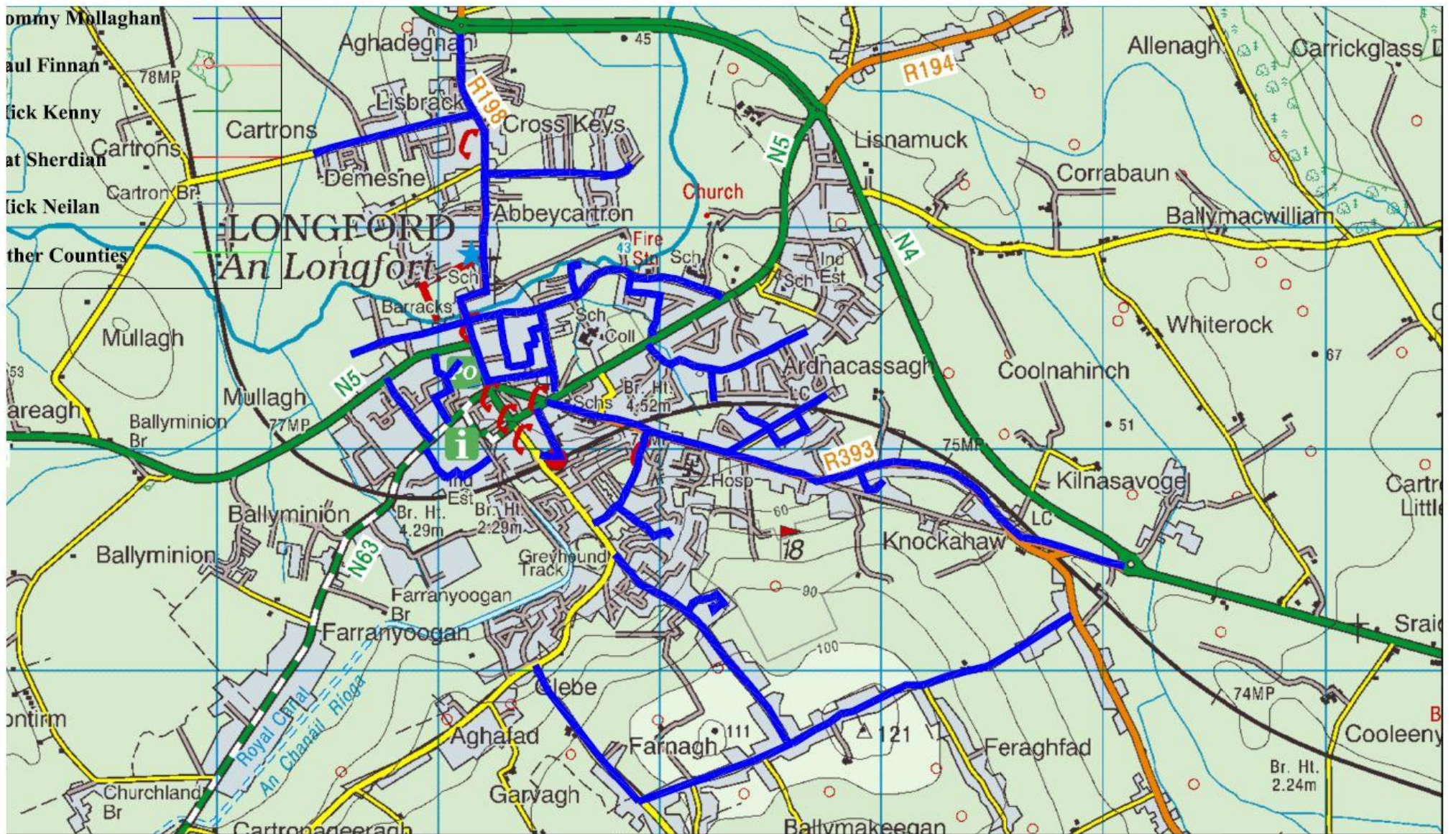
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 LONGFORD
 Tel. (043) 46231



Full Salting

Liam Hebron

Drawing No:	005	Revision:	A
Scale:	NOT TO SCALE	Date:	Oct 2017
Drawn:		Status:	Issue
		Checked:	
		Approved:	



COMHAIRLE CHONTAE LONGFOIRT
Longford County Council

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 LONGFORD
 Tel. (043) 46231



Full Salting

Noel Norton

Drawing No:	005	Revision:	A
Scale:	NOT TO SCALE	Date:	Oct 2017
Drawn:		Status:	Issue
		Checked:	
		Approved:	

APPENDIX 4

SALT DEPOT DATA

FOR

COUNTY LONGFORD

Local Authority	Name			
Principal Contact	Eamon Bennett	SEE, Infrastructure	ebennett@longfordcoco.ie	(043) 3343320
Backup Contact	David Coppinger	SEE , Infrastructure	dcoppinger@longfordcoco.ie	(043) 3343413
Backup Contact	Brian Mc Neela	EE Infrastructure	bmcneela@longfordcoco.ie	(043) 3343320
Number of Salt Depots	1			

Salt Depot Address	GPS Coords	Supervisor Name	email	Phone
Longford	E213787 N274408	Brian MC Neela	bmcneela@longfordcoco.ie	(043) 3343320

Salt Depot	Total Capacity Storage Indoor (Tonnes)	Total Capacity Storage Outdoor (Tonnes)	Depot Storage Capacity (tonnes)	Salt in Storage (tonnes)
Longford	900	-	900	900