

# APPENDIX 1

## Kildare National Roads Design Office



## N81 Tallaght to Hollywood Cross

## Journey Time Assessment Report



Wicklow Council



South Dublin Council



Kildare Council

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## 1. INTRODUCTION

Journey time surveys are undertaken to determine what Level of Service (LOS) a road is performing at and if it meets the minimum requirements of the 1998 National Road Needs Study. The National Road Needs Study 1998 set out the criteria that all National Secondary Routes should provide a LOS D or an inter urban travelling speed of 80kph. The surveys were carried out in accordance with the Journey Time Measurement for the Assessment of Major Road Projects published by the Environmental Research Unit. The surveys are carried out between 8am and 6pm on neutral days. The survey was carried out for this scheme on Tuesday and Wednesday. Neutral day suggestion Thursday was omitted as it is the market day, in Blessington town, Co. Wicklow. The interval or time taken to travel the length of the scheme is half an hour which gives a run in each direction every hour. This allows us to take 20 surveys per day. The speed limits were obeyed for the assessment.

## 2. SURVEY DATA

The survey data sheets are contained in Appendix A of this report. The survey was conducted on Tuesday the 17<sup>th</sup> April 2006 and Wednesday 2<sup>nd</sup> May 2006. The distance for the survey was 25.4km or 15.8miles. A number of points were chosen along the route to record times in order to allow for analysis over various sections of the route independently. Map 1 on the next page shows the record points.

The first day chosen had road works underway in two locations however these were not over significant sections of the route. In addition both sections were monitored to ensure that the traffic did not build up and as such did not significantly effect the journey times. The weather conditions on both days was dry and bright, however in the road at the northern end of the scheme was wet due to the shaded nature of the road and the level of the land on the east side of the road.

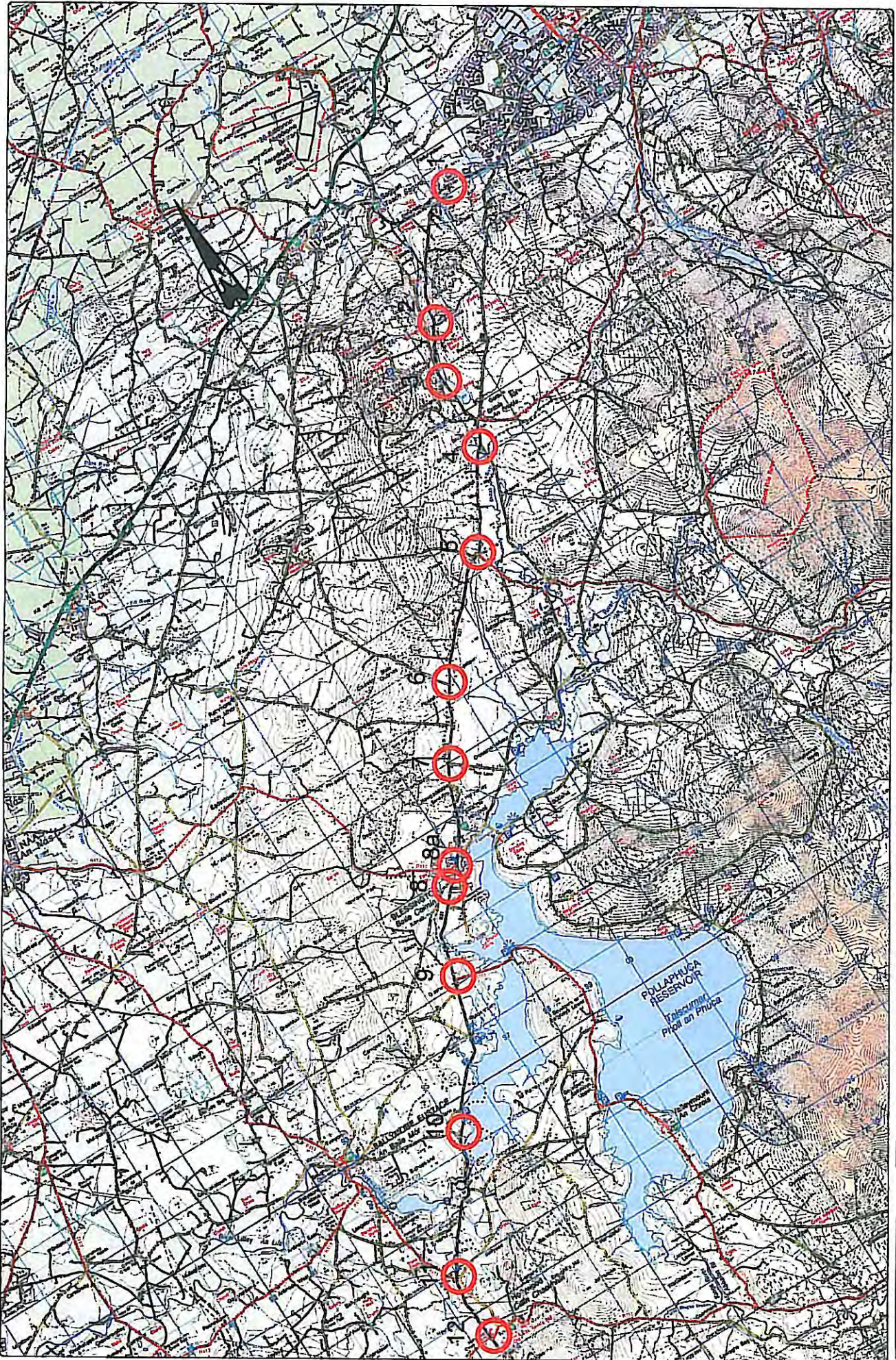
## 3. CONCLUSION

As shown in Appendix A, the results of the survey gave an average speed of 62kph. The average time spent driving this distance was 25 minutes. This average speed is less than the 80kph required to achieve LOS D and therefore National Road Needs Study requirement.

The road has a number of 60kph speed limit zones in place due to its poor alignment and the towns that are passed through. If this road was upgraded and the town of Blessington and village of Brittas were bypassed this would result in a continuous 100kph speed limit for the journey. The outcome of this increase speed limit is a journey time of 15 minutes which would give an average saving of 10 minutes per journey overall. With the projected increases in traffic along this route the existing journey time is set to increase further. An upgrade in this area would give an even more significant saving over the design life of the new road.

**Appendix A**

**JOURNEY TIME SURVEY SHEETS**



PROJECT: **JTS Locations**  
 DRAWING: **Discovery Mapping**  
 DATE: 11/15/11  
 SCALE: 1" = 100'  
 SHEET: 1 OF 1  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]

STATE: PA  
 COUNTY: SCHUYLKER  
 TOWNSHIP: [Name]  
 SECTION: [Number]

DATE	DESCRIPTION

I, [Name], Director of [Department], certify that the information furnished on this form is true and correct to the best of my knowledge and belief, and that I am a duly sworn and authorized person in charge of the office in which I am employed.

**Kildare**  
 County Council  
 Planning & Design Office  
 1000 Walnut Street, Suite 1000, Pottsville, PA 17870  
 Phone: 717.261.1234  
 Fax: 717.261.1235  
 Email: [Email]

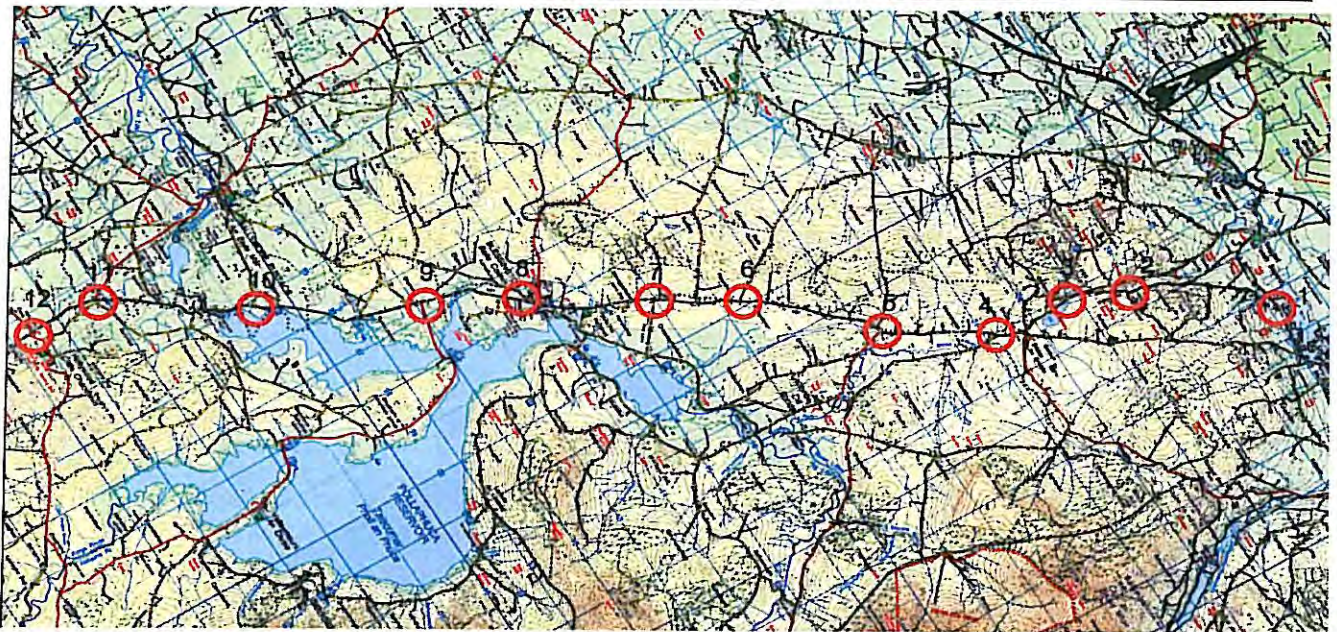
***N81 Tallaght to Hollywood Cross (bypasses Blessington) Journey Time Survey Record Sheet***

Date	Day	Weather	Direction: Dublin	
Survey Name: N81 Blessington Road		Completed by		
Location	Time	Elapsed	Notes	
1. Junction with N82 (The Embankment)				
2. Hospital Crooksling Junction				
3. Junction signed for Golf Club (local road) (North of Brittas)				
4. Junction signed for Golf Club (local road) (South of Brittas)				
5. Kilbride Junction R759				
6. Killeel Junction (local road)				
7. Red Lane Junction (local road)				
8a. R410 Junction for Naas				
8. Roundabout at entrance to Blessington				
9. R758 Junction for Vallemount				
10. Junction for Ballymore Eustace (local road) (Petrol station Toughers)				
11. R411 Junction for Ballymore Eustace				
12. Hollywood Cross R756				



**N81 Tallaght to Hollywood Cross (bypasses Blessington) Journey Time Survey Record Sheet**

Date	Day	Weather	Direction: Dublin	
Survey Name: N81 Blessington Road		Completed by		
Location	Time	Elapsed	Notes	
12. Hollywood Cross R756				
11. R411 Junction for Ballymore Eustace				
10. Junction for Ballymore Eustace (local road) (At the petrol station Toughers)				
9. R758 Junction for Valleymount				
8. Roundabout at entrance to Blessington				
8a. Junction with R410 Naas turn off				
7. Red Lane Junction (local road)				
6. Killeel Junction (local road)				
5. Kilbride Junction R759				
4. Junction signed for Golf Club (local road) (South of Brittas)				
3. Junction signed for Golf Club (local road) (North of Brittas)				
2. Hospital Crooksling Junction				
1. Junction with N82 (The Embankment)				





N81 Journey Time Survey Results

LOCATION		Average Times	LOCATION		Average Times
No.	Description		No.	Description	
12	Hollywood Cross R756	0	1	Junction with N82	0
11	R411 Junction for Ballymore Eustace	1	2	Hospital Crooksling entrance	3
10	Junction for Ballymore Eustace (local Road)	4	3	Junction signed for Golf Club north of Brittas	4
9	R758 Junction for Valleymount	6	4	Junction signed for Golf Club south of Brittas	5
8	Roundabout into Blessington	8	5	Kilbride Junction	7
8a	Junction for Naas R410	10	6	Kilteel Junction	9
7	Red Lane Junction	13	7	Red Lane Junction	11
6	Kilteel Junction	14	8	Junction for Naas R410	14
5	Kilbride Junction	16	8a	Roundabout into Blessington	16
4	Junction signed for Golf Club south of Brittas	18	9	R758 Junction for Valleymount	17
3	Junction signed for Golf Club north of Brittas	20	10	Junction for Ballymore Eustace (local Road)	20
2	Hospital Crooksling entrance	21	11	R411 Junction for Ballymore Eustace	23
1	Junction with N82	26	12	Hollywood Cross R756	24

Standard Deviation s  
Mean x  
Average Speed kph  
Coefficient of Variation s/x

4  
25  
60  
0.17

Standard Deviation s  
Mean x  
Average Speed kph  
Coefficient of Variation s/x

2  
24  
64  
0.08