

## **School routes driven by staff over the period 3/11/10 – 16/11/10**

Current school pupil lists, including Pre 5 pupils who will attend Primary School next year, were supplied by the Education Service for all merger proposals.

Ordnance Survey maps were printed for each route.

Pupil home addresses were marked on each map.

Routes were driven from the furthest entitled pupil address to the receiving school by two members of staff on dates between 3/11/10 and 16/11/10.

Instructions were given to stop for 30 seconds at each home address, simulating a pick up on the school run.

Each vehicle was fitted with a telematics system in order to record the exercise.

### **Notes**

- **In all cases drivers were unfamiliar with the routes. It has been noted from the telematics system that some vehicles were driven at speeds very much slower than would normally be expected whilst staff identified addresses marked on the maps. A driver undertaking the routes regularly would not experience these difficulties, so it is expected that times would be reduced.**
- **30 seconds is an accepted pick up time used in timetabling for pupils boarding and belting up on a school run. This may vary if there is a large group of children at a particular stop.**
- **Although the vehicles in this exercise stopped at every home address, it may be that a safe pick up point, of no more than two miles from a home address, and incorporating a safe walking route, would be designated for use on a school run. Designated pick up points would reduce the travel time in some cases.**
- **Some of the routes were travelled in areas where there was no signal for the telematics system. Drivers stopped at all pick up points but this was not recorded in the few cases where the signal was lost. This did not affect the distance and time taken being recorded, from which the average journey speed could be calculated.**
- **Drivers on some routes travelled along farm roads and forestry roads to home addresses which would not form part of the main school transport route. In these instances additional link transport would be provided, and an explanation has been added to the route detail of this document if this is the case. The journey times of affected routes have been amended to disregard the off road time and distance.**

## **Achahoish – Ardrishaig**

### Desktop exercise

- Mileage between schools is 10.2 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Ardrishaig PS, including diversion via Ormsary and Lothead Farm, is 16.1 miles calculated using Autoroute software

Total journey time from furthest address to Ardrishaig PS using existing public bus service times is **39 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance Survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session.
- The route was driven on 3/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 23.4mph

The journey took **38 minutes 31 seconds**

## **Achaleven - Lochnell**

### Desktop exercise

- Mileage between schools 3.6 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Lochnell PS 6.9 miles calculated using Autoroute software
- Journey time from furthest address to Achnacloich Road end (0.6miles) driven at 25mph estimated to be 2 minutes
- Journey time from Achnacloich Road end to Lochnell School using existing public bus service times is 14 minutes.

Estimated total journey time **16 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session..
- The route was driven on 5/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 28.9mph

The journey took **20 minutes**

## **Ardchattan - Lochnell**

### Desktop exercise

- Mileage between schools is 8.3 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Lochnell PS 15.4 miles calculated using Autoroute software
- Journey time from furthest entitled pupil address to Lochnell School using existing public bus service times is 32 minutes

Estimated total journey time **32 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance Survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session.
- The route was driven on 5/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 28.9mph

The journey took **22 minutes**

## **Ashfield – Tayvallich**

### Desktop exercise

- Mileage between schools is 9 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Tayvallich PS 15.7 miles calculated using Autoroute software
- Estimated time of journey from furthest pupil address to Achnamara (6.8 miles) driven at 30mph is 14 minutes
- Journey time from Achnamara to Tayvallich using existing public bus service times is 28 minutes

Total journey time from furthest address to Tayvallich PS estimated as **42 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance Survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session.
- The route was driven on 3/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 27.1mph

The journey took **35 minutes**

**NB – Separate transport from an off road address above Letterdaill, Cairnbaan directly to Tayvallich would be a necessary provision. The journey time for this route, taken from the telematics tracking system is 28 minutes 30 seconds. This journey is currently carried out in a separate car to Ashfield School, so would not incur extra cost travelling to Tayvallich.**

## **Barcaldine – Lochnell**

### Desktop exercise

- Mileage between schools 4.5 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Lochnell PS is 4.5 miles calculated using Autoroute software

Total journey time from furthest address to Lochnell PS estimated as **9 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session..
- The route was driven on 5/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 24.4mph

The journey took **15 minutes**

## **Glassary – Lochgilphead**

### Desktop exercise

- Mileage between schools is 5.2 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Lochgilphead Joint Campus is 8.1 miles calculated using Autoroute software
- Estimated time from furthest address to Glassary (2.9 miles) at 25mph is 7 minutes
- Journey time from Glassary to Lochgilphead Joint Campus using existing public service times is 17 minutes

Total estimated journey time from furthest address to Lochgilphead Joint Campus is **24 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance Survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session..
- The route was driven on 3/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 26.9mph

The journey took **29 minutes**.

## **Glenbarr and Rhunahaorine – Clachan**

### Desktop exercise

- Mileage between furthest schools is 13.7 miles calculated using Autoroute software
- Mileage from furthest entitled pupil address to Clachan PS is 18.6 miles calculated using Autoroute software

Total journey time from furthest address to Clachan PS by existing public bus service times **39 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance Survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session..
- The route was driven on 3/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 28.15mph

The journey took **36 minutes**.

**NB. It should be noted that in addition to this route there is an off road address which is 2.8 miles from the main route. This route was driven and took 7 minutes each way. Alternative transportation would be deployed for this child to ensure he/she was at the pick up point at Glenbarr for the rest of the journey. This child's journey time in total would be 36 minutes. The cost of this transport would be approximately £37.00 per day x 190 days = £7030 per annum**



## **Keills – Port Charlotte**

### Desktop exercise

- Mileage between schools 14.5 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Port Charlotte PS 15.6 miles calculated using Autoroute software

Total journey time from furthest address to Port Charlotte PS by existing public bus service times is **36 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session.
- The route was driven on 12/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 29.3mph

The journey took **37 minutes**

## **Kilchrenan– Taynuilt**

### Desktop exercise

- Mileage between schools 6.7 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Taynuilt PS is 15 miles calculated using Autoroute software

Total journey time from furthest address to Taynuilt PS by existing public bus service times is **42 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session..
- The route was driven on 5/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 26.2mph

The journey took **39 minutes**

## **Kilcreggan and Rosneath – Garelochhead**

### Desktop exercise

- Mileage between schools via Rosneath 9.3 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Garelochhead PS is 13.6 miles calculated using Autoroute software

Total journey time from furthest address to Garelochhead PS via Rosneath by existing public bus service times is **28 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session..
- The route was driven on 9/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 16.53mph

The journey took **45 minutes**

## **Kilmodan – Strachur**

### Desktop exercise

- Mileage between schools is 15.1 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Strachur PS is 17.4 miles calculated using Autoroute software
- Journey time from furthest entitled pupil address to Dunans using existing public service times 14 minutes
- Estimated journey time from Dunans to Strachur PS (9.5 miles) driven at 35 mph is 16 minutes

Total journey time from furthest address to Strachur PS is **30 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance Survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session..
- The route was driven on 5/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 36 mph

The journey took **21 minutes**

## **Kilmodan - Tighnabruaich**

### Desktop exercise

- Mileage between schools is 8.9 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Tighnabruaich PS is 17.1 miles calculated using Autoroute software

Total journey time from furthest address to Tighnabruaich PS using existing public bus service times is **41 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance Survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session.
- The route was driven on 5/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 13.3mph

The journey took **41 minutes**

## **Lochdonhead – Salen**

### Desktop exercise

- Mileage between schools is 13.6 miles calculated using Autoroute software
- Mileage from furthest entitled pupil address to Salen PS, is 24.6 miles calculated using Autoroute software
- Estimated journey time for Lochbuie to Lochbuie crossroads( 7.4 miles) at 30 mph is 15 minutes
- Journey from Lochbuie crossroads to Salen PS using existing public bus service times is 24 minutes

Total journey time from furthest address to Salen PS using existing public bus service times **39 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance Survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session.
- The route was driven on 4/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 36 mph

The journey took **42 minutes**

**NB In addition it should be noted that a pupil address is off road by 2.2 miles. Additional transport for this route would be arranged in order that the pupil could meet the transport from Lochbuie to Salen. The journey time for this pupil according to the telematic system would be 39 minutes and as he is currently being transported on this off road route there would be no extra cost**

## **Luing – Easdale**

### Desktop exercise

- Mileage between schools is 5.7 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Easdale PS is 9.2 miles calculated using Autoroute software.
- Estimated time for journey from furthest entitled pupil address to South Cuan via Cullipool, on existing Post Bus Service is 23 minutes
- Ferry Crossing is 10 minutes
- North Cuan to Easdale PS using existing public service time is 8 minutes

Total journey time from furthest address to Easdale PS by existing public bus service times and including ferry time is **41 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance Survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session.
- The route was driven on 8/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 15.2mph

The journey took **49 minutes – which included 9 minute wait on the ferry.**

**NB If the journey was being undertaken regularly it has been confirmed that a more seamless journey could be arranged to allow school transport a reserved place on the ferry with transport arrival coinciding with the ferry sailing time. However, it is also accepted that under current conditions, when the Belnahua is off for annual refit, a double journey may be necessary with the back up vessel if the number of pupils exceeds twelve. In these instances the travel time would be extended beyond 45 minutes.**

## **Luss – Hermitage PS**

### Desktop exercise

- Mileage between schools is 9.2 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Hermitage PS is 15 miles calculated using Autoroute software
- Estimated journey time from furthest pupil address to Luss (5.8 miles) at 25 mph is 14 minutes
- Journey time from Luss to Hermitage PS using existing public service times is 20 minutes

Total journey time from furthest address to Hermitage PS is **34 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance Survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session..
- The route was driven on 8/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 25.57mph

The journey took **41 minutes**



## **Minard – Lochgilphead**

### Desktop exercise

- Mileage between schools is 12.2 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Lochgilphead Joint Campus is 13.4 miles calculated using Autoroute software

Total journey time from furthest address to Lochgilphead Joint Campus using existing public bus service times is **26 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance Survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session..
- The route was driven on 4/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 33.9mph

The journey took **25 minutes**

## North Bute – Rothesay Joint Campus

### Desktop exercise

- Mileage between schools 3.3 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Rothesay Joint Campus is 7.4 miles calculated using Autoroute software
- Estimated journey time from furthest entitled pupil address to Ettrick Bay (1.8 miles) at 25mph is 4 minutes
- Journey time from Ettrick Bay to Rothesay Joint Campus using existing public service bus times is 25 minutes

Total journey time from furthest address to Rothesay Joint Campus **29 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session..
- The route was driven on 5/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 20mph

The journey took **37 minutes**

## **Parklands – John Logie Baird**

### Desktop exercise

- Mileage between schools is 0.9 miles calculated using Autoroute software

This is estimated to add 3 minutes to the existing school transport times.

### Confirmation exercise

- The route was plotted on an Ordnance Survey map
- The route was driven on 5/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 16.39mph

The journey took **22 minutes**

## **Parklands – Hermitage Academy**

### Desktop exercise

- Mileage between schools is 1.5 miles calculated using Autoroute software

This is estimated to add 5 minutes to the existing school transport times

### Confirmation exercise

- The route was plotted on an Ordnance Survey map
- The route was driven on 5/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 21.42mph

The journey took **34 minutes**

## **Skipness – Clachan**

### Desktop exercise

- Mileage between schools is 12.4 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Clachan PS is 11.8 miles calculated using Autoroute software.
- Estimated journey time from furthest entitled pupil address to Claonaig (1.7 miles) at 27 mph is 4 minutes
- Journey time from Claonaig to Clachan using existing public service times is 23 minutes

Total journey time from furthest address to Clachan PS using existing public bus service times is **27 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance Survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session..
- The route was driven on 3/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 33.2mph

The journey took **18 minutes**.

## **Southend - Drumlemble**

### Desktop exercise

- Mileage between schools is 8.8 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Drumlemble PS is 12 miles calculated using Autoroute software
- Estimated journey time from furthest entitled pupil address to Southend (3.5 miles) at 27 mph is 8 minutes
- Journey time from Southend to Drumlemble using existing public service times is 20 minutes

Total journey time from furthest address to Drumlemble PS is **28 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance Survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session..
- The route was driven on 3/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 26.9mph

The journey took **38 minutes**

## **Strone– Sandbank**

### Desktop exercise

- Mileage between schools is 6 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Sandbank PS is 11.1 miles calculated using Autoroute software

Total journey time from furthest address to Sandbank PS using existing public bus service times is **31 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance Survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session..
- The route was driven on 16/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 24.4mph
- The vehicle travelled via Dunselma Court.

The journey took **34 minutes**

## **Toward – Innellan**

### Desktop exercise

- Mileage between schools is 2.9 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Innellan PS, is 9.4 miles calculated using Autoroute software
- Estimated time for journey from furthest entitled pupil address to Castle Toward (5.2 miles) at 27 mph is 12 minutes
- Journey time for Castle Toward to Innellan via Toward Lighthouse, using existing public service bus times 11 minutes

Total journey time from furthest address to Innellan PS is **23 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance Survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session..
- The route was driven on 5/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 23.4mph

The journey took **35 minutes**



## **Ulva – Dervaig**

### Desktop exercise

- Mileage between schools is 16.9 miles calculated using Autoroute software
- Mileage from furthest entitled pupil's address to Dervaig PS is 17.9 miles calculated using Autoroute software
- Estimated

Total estimated journey time from furthest address to Dervaig PS at an average speed of 27mph is **40 minutes**

### Confirmation exercise

- The route was plotted on an Ordnance Survey map, including each pick up point of existing entitled pupils and Pre 5 children due to commence school next session..
- The route was driven on 4/11/10 by two members of staff.
- A stop of 30 seconds was made at each pupil pick up point.
- The journey was recorded on the telematics tracking system fitted in the vehicle, demonstrating that the average journey speed was 24mph

The journey took **43 minutes**

**NB It should be noted that this is the long route, avoiding the inland road which can become snowbound in winter.**