

Mr Robert M Staveley
The Estate Office
North Stainley Estates
Ripon
HC4 3HT

Your Ref

Our Ref HSD 9/2/6871

2 February 2005



Dear Mr Staveley

ANCIENT MONUMENTS AND ARCHAEOLOGICAL AREAS ACT 1979 (AS
AMENDED) - SECTION 2
PROPOSED WORKS AT THORNBOROUGH HENGES (NORTHERN HENGE),
NORTH YORKSHIRE
MONUMENT NO 36
APPLICATION BY MR ROBERT MILES STAVELEY

1 I am directed by the Secretary of State for Culture, Media & Sport to refer to your application for scheduled monument consent dated 22 September 2004 and to the location map of the pipeline, accompanying the application form, submitted therewith in respect of proposed works at the above scheduled ancient monument, concerning the installation of water service pipe on alignment agreed with English Heritage avoiding area of Northern Henge; insertion of aluminium markers along route to allow discovery through geophysical survey and location of route through plan/map format to be fixed by GPS.

2 in accordance with paragraph 3(2) of Schedule 1 to the 1979 Act, the Secretary of State is obliged to afford to the applicant, and to any other person to whom it appears to the Secretary of State expedient to afford it, an opportunity of appearing before and being heard by a person appointed for that purpose. This opportunity has been declined in your telephone conversation with Richard Evans of the Department on 1 February 2005.

3 The Secretary of State is also required by the Act to consult with the Historic Buildings and Monuments Commission for England (English Heritage) before deciding whether or not to grant scheduled monument consent. Having received the advice of English Heritage, the Secretary of State considers that the proposed works would not significantly diminish the visual amenity of the



INVESTOR IN PEOPLE

monument but would cause significant damage to the monuments archaeological deposits or evidence, which can be acceptably mitigated by conditions or safeguards already specified in the application to ensure archaeological supervision and recording. The Secretary of State is agreeable for the works to proceed providing the conditions recommended by English Heritage, and set out below, are adhered to, and accordingly hereby grants scheduled monument consent under section 2 of the 1979 Act for the proposed works as referred to in paragraph 1 above, subject to the following conditions: -

- i) The works (installation of the water service pipe on an alignment agreed with English Heritage) to which this consent relates shall be carried out to the satisfaction of the Secretary of State, who will be advised by English Heritage. At least 2 weeks notice, (or such shorter period as may be mutually agreed) in writing of the commencement of work shall be given to K. Emerick, IAM, English Heritage, 37 Tanner Row, York, YO1 6WP in order that an English Heritage representative can have the opportunity to inspect and advise on the works and their effect in compliance with this consent.
- ii) Not less than 2 weeks before any of the operations to which this consent relates are begun on site C. Knowles, FMW, English Heritage, The Manor, West End, Winterringham, Scunthorpe, N. Lines DN15 9NS, and, N. Campling, County Archaeologist, Heritage Unit, NYCC, Northallerton, N. Yorks, DL6 8AQ shall be informed in writing of the timetable for the proposed works and either they or their nominated representatives shall subsequently be given the opportunity to enter the site at any reasonable time before and during the execution of the proposed works for the purposes of inspecting the execution of works.
- iii) Before works (installation of water service pipe on alignment agreed with English Heritage; insertion of aluminium markers along route – a material 'visible' to geophysical survey – record of route in map/plan form to be fixed with GPS) are carried out, the applicant will ensure that an archaeological contractor (to be agreed with English Heritage) or nominated representative (unless the opportunity is declined in writing) has made arrangements to enter the site at any reasonable time before and during the execution of the specified works for the purposes of inspecting the site and in accordance with a written scheme of investigation agreed in advance with the Secretary of State advised by English Heritage recording and removing for study of any matters of archaeological importance observed in the course of the inspection.
- iv) All those involved in the works must be informed of the scheduled status of the monument, its extent, and the legal obligations which apply.
- v) Equipment and machinery shall not be used or operated in the scheduled area in conditions or in a manner likely to result in damage to the monument or ground disturbance other than that which is expressly authorised in this consent.
- vi) Any works to which this consent relates shall be carried out under archaeological supervision (the identity of a suitable contractor to be

confirmed with English Heritage before the commencement of works). The archaeological contractor shall be given at least 2 weeks notice (or such shorter period as may be mutually agreed) in writing of the commencement of work.

vii) A report on the archaeological recording shall be sent to the County Sites and Monuments Record, National Monuments Record, Swindon and to K. Emerick, IAM at English Heritage within 3 months of the completion of the works (or such other period as may be mutually agreed).

vii) The process of the archaeological recording shall be recorded by photography, before the start of the work, at the key stages during the work and on completion. The photography shall be labelled with a description of the stage of the work and mounted on A4 format, A copy of the photographic record will be sent to the inspector within four weeks of the completion of the site work.

4 By virtue of section 4 of the 1979 Act, if no works to which this consent relates are executed or started within five years from the date of this letter, the consent shall cease to have effect at the end of that period (unless it is revoked before then).

5 This letter does not convey any approval or consent required under any enactment, bye law, order or regulation other than section 2 of the Ancient Monuments and Archaeological Areas Act 1979.

6 Attention is drawn to the provisions of section 55 of the 1979 Act under which any person (hereinafter referred to as the 'applicant') who is aggrieved by the decision given in this letter may challenge its validity by an application made to the High Court within six weeks from the date when the decision is given. The grounds upon which an application may be made to the Court are (1) that the decision is not within the powers of the Act (that is, the Secretary of State has exceeded her powers) or (2) that any of the relevant requirements have not been complied with and the applicant's interests have been substantially prejudiced by the failure to comply. The "relevant requirements" are defined in section 55 of the 1979 Act: they are the requirements of that Act and the Tribunals and Inquiries Act 1971 and the requirements of any regulations or rules made under those Acts.

7. A copy of this letter is being sent to K. Emerick, IAM, English Heritage, 37 Tanner Row, York, YO1 6WP; C. Knowles, FMW, English Heritage, The Manor, West End, Winterringham, Scunthorpe, N. Lines DN15 9NS, and, N. Campling, County Archaeologist, Heritage Unit, NYCC, Northallerton, N. Yorks, DL6 8AQ.

Yours sincerely,

a. R. Middleton

A R Middleton (Miss)
Authorised by the Secretary of State
to sign in that behalf

STANDARD WRITTEN SCHEME OF INVESTIGATION (WSI) FOR ARCHAEOLOGICAL RECORDING (“RECORDING BRIEF”)

Thornborough Hedge

National Monument Number:36 National Grid Ref: SE 2828 7950

An Archaeological Recording Brief will be undertaken on behalf of North Stainley Estates for the installation of a new water main.

The purpose of the work is to record and recover any archaeological remains, which could be affected by installation of a new water main. The area is to be stripped under archaeological supervision and any features/deposits exposed excavated and recorded to correct archaeological standards

1. Before works commence an aluminium marker will be inserted – a material visible to geophysical survey. A record of the route will be fixed with GPS and supplied to English Heritage. The process of the archaeological recording shall be recorded by photography, before the start of the work, at the key stages during the work and on completion. The photography will be labelled with a description of the stage of the work and mounted on A4 format. A copy of the photographic record will be sent to the inspector within four weeks of the completion of the site work.
2. The WSI represents a summary of the broad archaeological requirements needed to comply with Scheduled Monument Consent.
3. The removal of overburden (that is vegetation, turf, loose stones, mbbble, made ground, Tarmac, concrete, hardcore, building debris and topsoil) should be supervised by the Archaeologist contracted to carry out the WSI. The Archaeologist should be informed of the correct timing and schedule of overburden removal.
4. Equipment and machinery shall not be used or operated in the scheduled area in conditions or in a likely to result in damage to the monument/ground disturbance other than that which is expressly authorised in this consent
5. Metal detecting within the development area, including the scanning of topsoil and spoil heaps, should only be permitted subject to archaeological supervision and recording such that metal finds are properly located, identified, and conserved. All metal detection should be carried out following the Treasure Act 1996 Code of Practice.
6. Where structures, finds, soil features and layers of archaeological interest are exposed or disturbed by construction works, the Archaeologist should be provided with the opportunity to observe, clean, assess, excavate by hand where appropriate, sample and record these features and finds.
7. Heavy plant should not be operated in the near vicinity of archaeological remains until they have been recorded, and the Archaeologist on site has allowed operations to recommence at that location. Sterile subsoils (C horizons) and parent materials below

archaeological deposits may be removed without archaeological supervision. Where reinstatement is required, subsoils should be backfilled first and topsoil last.

8. Upon completion of fieldwork, samples will be processed and evaluated, and all finds cleaned, identified, assessed, spot-dated, and properly stored. A field archive will be compiled consisting of all primary written documents, plans, sections, and photographs.

9. A report will be produced containing the planning or administrative details of the project, a summary of works carried out, a description and interpretation of the findings, an assessment of the importance of the archaeology including its historical context where appropriate, and catalogues of finds, features, and primary records. All excavated areas will be accurately mapped with respect to nearby buildings, roads and field boundaries. All significant features will be illustrated with conventionally scaled plans, sections, or photographs. Where few or no finds are made, a summary report the form of a letter with plans will be submitted.

10. A report on the archaeological recording will be sent to the County Sites and Monuments Record and to Keith Emerick IAM at English Heritage and to National Monument record Swindon.

Neil Campling
County Archaeologist
Heritage Unit
NYCC
County Hall
Northallerton
DL7 8AH

Chris Knowles
The Manor
West End
Wintringham
Scunthorpe
DN15 9NS

Within 3 months of the completion of the works (or such other period as may be mutually agreed).

11. The Inspector of Ancient Monuments will be informed as soon as possible of the discovery of any unexpected archaeological remains, or changes in the programme of ground works on site. Any significant changes in the archaeological work will be specified in a variation to the WSI to be approved by the planning authority. If human remains are encountered, they will be exhumed subject to the conditions of a Home Office licence.

APPENDIX 3

THORNBOROUGH HENGE

PHOTOGRAPHIC LISTING

Plate No.	Jpeg No.	Caption
Plate No 1	100_1604	Location of junction with previous pipetrench excavation. Facing north-east
Plate No 2	100_1605	Open junction trench with waterpipes in situ Facing north-east
Plate No 3	100_1606	Open junction trench with waterpipes in situ Facing south-west
Plate No 4	100_1607	Alignment of Trench 1 pipe trench, pnor to excavation Facing south-east
Plate No 5	100_1609	Alignment of Trench 1 pipe trench, pnor to excavation Facing north-west
Plate No 6	100_1610	Alignment of Trench 1 pipe trench, pnor to excavation Facing north
Plate No 7	100_1611	Alignment of Trench 1 pipe trench, prior to excavation Facing north-west
Plate No 8	100_1612	Alignment of Trench 1 pipe trench, pnor to excavation Facing west
Plate No 9	100_1613	Alignment of Trench 1 pipe trench, pnor to excavation Facing south-west
Plate No 10	100_1614	Alignment of Trench 1 pipe trench, pnor to excavation Facing north-west
Plate No 11	100_1615	Trench 1 under excavation, removal of the subsoil Facing south-east
Plate No 12	100_1616	Trench 1 under excavation Facing north-east
Plate No 13	100_1618	Placng of aluminium marker at junction of Trench 1 and previous excavated pipe trench Facing north
Plate No 14	100_1619	Trench 1 under excavation Facing south-east
Plate No 15	100_1620	Location of junction betwenn Trenches 1 and 2 Facing south-east
Plate No 16	100_1621	Trench 1 under excavation Facing north-west
Plate No 17	100_1622	Trench 1 under excavation Facing north
Plate No 18	100_1623	Alignment of Trench 2 pipe trench, prior to excavation Facing south-west
Plate No 19	100_1625	Alignment of Trench 2 pipe trench, prior to excavation Facing south-west
Plate No 20	100_1626	Alignment of Trench 2 pipe trench, prior to excavation Facing south-west
Plate No 21	100_1627	Alignment of Trench 2 pipe trench, pnor to excavation Facing north-west
Plate No 22	100_1628	Alignment of Trench 2 pipe trench, pnor to excavation Facing north
Plate No 23	100_1629	Alignment of Trench 2 pipe trench, pnor to excavation Facing north-north-west
Plate No 24	100_1630	Previous backfilled excavation for pipe trench to west of Trench 2 Facing west
Plate No 25	100_1631	Previous backfilled excavation for pipe trench to west of Trench 2 Facing west
Plate No 26	100_1632	Alignment of Trench 2 pipe trench, pnor to excavation. Facing north-east
Plate No 27	100_1633	Previous backfilled excavation for pipe trench to west of Trench 2. Facing south-west
Plate No 28	100_1634	Aluminium marker at junction of Trenches 1 and 2 Facing west
Plate No 29	100_1635	Initial excavations in Trench 2 Facng south-west
Plate No 30	100_1636	Completed excavation of Trench 1 Facing south-east
Plate No 31	100_1637	Aluminium marker in Trench 1 Facing west
Plate No 32	100_1638	Trench 2 under excavation, removal of the turf and topsoil Facing north-west
Plate No 33	100_1639	Aluminium marker in Trench 2 Facing north-west
Plate No 34	100_1640	Completed excavation of Trench 2 Facing north-east
Plate No 35	100_1641	Completed excavation of Trench 2 Facing north-east
Plate No 36	100_1642	Aluminium marker in Trench 2 Facing north-west
Plate No 37	100_1643	Aluminium marker in Trench 2 Facing north-west
Plate No 38	100_1644	Completed excavation of Trench 2 Facing north-east
Plate No 39	100_1645	Completed excavation of Trench 2 Facing north-east
Plate No 40	100_1646	Completed excavation of Trench 2 Facing south-west
Plate No 41	100_1647	Completed excavation of Trench 2 Facing south-west
Plate No 42	100_1648	Completed excavation of Trench 2 Facing south-west
Plate No 43	100_1650	Completed excavation of Trench 2 Facing north-east
Plate No 44	100_1651	Completed excavation of Trench 2 Facing north-east
Plate No 45	100_1652	Alignment of Trench 3 pipe trench, pnor to excavation Facing south-east
Plate No 46	100_1653	Alignment of Trench 3 pipe trench, prior to excavation Facing south-east
Plate No 47	100_1654	Alignment of Trench 3 pipe trench, pnor to excavation Facing north-west
Plate No 48	100_1655	Alignment of Trench 3 pipe trench, pnor to excavation Facing north-west
Plate No 49	100_1657	Alignment of Trench 3 pipe trench, pnor to excavation Facing west
Plate No 50	100_1658	Completed excavation of Trench 3 Facing north-west

Plate No 51	100_1659	Completed excavation of Trench 3 Facing north-west
Plate No 52	100_1660	Completed excavation of Trench 3. Facing south-east
Plate No 53	100_1661	Completed excavation of Trench 3 Facing south-east
Plate No 54	100_1662	Completed excavation of Trench 1 Facing south-east
Plate No 55	100_1663	Completed excavation of Trench 1 Facing south-east
Plate No 56	100_1664	Completed excavation of Trench 1. Facing north-west
Plate No 57	100_1665	Completed excavation of Trench 1 Facing north-west
Plate No. 58	100_1666	Completed excavation of Trench 1 Facing north-west
Plate No. 59	100_1687	Trench 3. After backfilling Facing north-west
Plate No 60	100_1688	Trench 3 After backfilling Facing north-west
Plate No 61	100_1689	Trench 3 After backfilling Facing south-east
Plate No 62	100_1690	Trench 3 After backfilling Facing south-east
Plate No 63	100_1691	Trench 2 After backfilling Facing south-west
Plate No 64	100_1692	Trench 2. After backfilling Facing north-east
Plate No. 65	100_1693	Trench 2. After backfilling Facing north-east
Plate No 66	100_1694	Trench 2 After backfilling Facing south-west
Plate No 67	100_1695	Trench 2 After backfilling Facing south-west
Plate No 68	100_1696	Junction of Trenches 1 and 2 after backfilling Facing east
Plate No 69	100_1698	Trench 3 After backfilling Facing north-west
Plate No 70	100_1699	Trench 1 After backfilling Facing north-west
Plate No 71	100_1700	Junction of Trenches 1 and 2 after backfilling. Facing west
Plate No 72	100_1701	Trench 1 After backfilling Facing south-east

APPENDIX 4

Grid British National Grid
Datum Ord Srvy Grt Britn

Header	Name	Description	Type	Position	Altitude	Depth	Proximity
Display Mode	Color	Symbol	Facility	City	State	Country	
Waypoint	001	User Waypoint	SE	28140	79820		
Symbol & Name	Unknown	Waypoint					
Waypoint	002	User Waypoint	SE	28220	80000		
Symbol & Name	Unknown	Waypoint					
Waypoint	003	User Waypoint	SE	28180	80110		
Symbol & Name	Unknown	Waypoint					
Waypoint	004	User Waypoint	SE	28290	80390		
Symbol & Name	Unknown	Waypoint					
Waypoint	005	User Waypoint	SE	28177	80092	41.2	m
Symbol & Name	Unknown	Waypoint					
Waypoint	006	User Waypoint	SE	28206	80043	41.9	m
Symbol & Name	Unknown	Waypoint					
Waypoint	007	User Waypoint	SE	28226	80007	41.5	m
Symbol & Name	Unknown	Waypoint					
Waypoint	008	User Waypoint	SE	28210	79985	41.7	m
Symbol & Name	Unknown	Waypoint					
Waypoint	009	User Waypoint	SE	28190	79958	41.5	m
Symbol & Name	Unknown	Waypoint					
Waypoint	010	User Waypoint	SE	28172	79933	41.5	m
Symbol & Name	Unknown	Waypoint					
Waypoint	Oil	User Waypoint	SE	28150	79906	41.9	m
Symbol & Name	Unknown	Waypoint					
Waypoint	012	User Waypoint	SE	28178	79874	41.0	m
Symbol & Name	Unknown	Waypoint					
Waypoint	013	User Waypoint	SE	28282	80409	42.9	m
Symbol & Name	Unknown	Waypoint					
Waypoint	014	User Waypoint	SE	28134	79885	42.7	m
Symbol & Name	Unknown	Waypoint					
Waypoint	015	Map Line	SE	27803	80321		Symbol
Unknown	White	Dot					
Waypoint	016	Map Line	SE	27803	80321		Symbol
Unknown	White	Dot					
Waypoint	018	Map Line	SE	27826	80225		Symbol
Unknown	White	Dot					
Waypoint	021	Map Line	SE	27856	80168		Symbol
Unknown	White	Dot					
Waypoint	023	Map Line	SE	27889	80105		Symbol
Unknown	White	Dot					
Waypoint	025	Map Line	SE	27920	80063		Symbol
Unknown	White	Dot					
Waypoint	027	Map Line	SE	27968	80022		Symbol
Unknown	White	Dot					
Waypoint	029	Map Line	SE	28045	79873		Symbol
Unknown	White	Dot					
Waypoint	032	Map Line	SE	28106	79754		Symbol
Unknown	White	Dot					
Waypoint	036	Map Line	SE	28673	80321		Symbol
Unknown	White	Dot					
Waypoint	039	Map Line	SE	28149	80459		Symbol
Unknown	White	Dot					
Waypoint	042	Map Line	SE	27967	80513		Symbol
Unknown	White	Dot					
Waypoint	046	Map Line	SE	27914	80517		Symbol
Unknown	White	Dot					

Waypoint	050	Map Line	SE 27858 80512	Symbol
	Unknown	White Dot		
Waypoint	054	Map Line	SE 27816 80502	Symbol
	Unknown	White Dot		
Waypoint	B62673	Map Line	SE 27816 80502	
	Symbol	Unknown	White Dot	
Waypoint	MoorLa	Map Line	SE 28106 79754	
	Symbol	Unknown	White Dot	
Waypoint	Road	Map Line	SE 27786 80402	Symbol
	Unknown	White Dot		
Waypoint	Thornf	Map Line	SE 27914 80517	
	Symbol	Unknown	White Dot	

Header	Name	Length	Course	Waypoints
Route	ROAD TO ROAD	2.52 km	0° true	31 waypoints

Header	Waypoint	Name	Distance	Leg Length	Course
Route	Waypoint	Road	0 m		
Route	Waypoint	Road	0 m	0 m	0° true
Route	Waypoint	015	82.9 m	82.9 m	168° true
Route	Waypoint	016	82.9 m	0 m	0° true
Route	Waypoint	018	181 m	98.1 m	167° true
Route	Waypoint	018	181 m	0 m	0° true
Route	Waypoint	021	246 m	64.9 m	153° true
Route	Waypoint	021	246 m	0 m	0° true
Route	Waypoint	023	317 m	71.1 m	153° true
Route	Waypoint	023	317 m	0 m	0° true
Route	Waypoint	025	369 m	52.0 m	144° true
Route	Waypoint	025	369 m	0 m	0° true
Route	Waypoint	027	433 m	63.7 m	131° true
Route	Waypoint	027	433 m	0 m	0° true
Route	Waypoint	029	600 m	168 m	153° true
Route	Waypoint	029	600 m	0 m	0° true
Route	Waypoint	MoorLa	733 m	133 m	153° true
Route	Waypoint	032	733 m	0 m	0° true
Route	Waypoint	036	1.53 km	802 m	45° true
Route	Waypoint	036	1.53 km	0 m	0° true
Route	Waypoint	039	2.08 km	541 m	285° true
Route	Waypoint	039	2.08 km	0 m	0° true
Route	Waypoint	042	2.27 km	190 m	287° true
Route	Waypoint	042	2.27 km	0 m	0° true
Route	Waypoint	Thornf	2.32 km	53.3 m	275° true
Route	Waypoint	046	2.32 km	0 m	0° true
Route	Waypoint	050	2.38 km	56.1 m	265° true
Route	Waypoint	050	2.38 km	0 m	0° true
Route	Waypoint	B62673	2.42 km	43.0 m	257° true
Route	Waypoint	054	2.42 km	0 m	0° true
Route	Waypoint	Road	2.52 km	105 m	197° true

Header	Name	Start Time	Elapsed Time	Length	Average Speed
Track	ACTIVE LOG	02/04/2005	18:50:49	00:00:31	0 m 0 kph

Header	Position	Time	Altitude	Depth	Leg Length	Leg Time	Leg
Speed	Leg	Course					

Trackpoint	SE 61068 49870	02/04/2005	18:50:49	20.8 m			
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Trackpoint SE 61068 49870 02/04/2005 18:51:20 19.4 m 0 m
00:00:31 0 kph 0° true

Track ACTIVE LOG 001 02/04/2005 20:13:10 00:00:03 0 m 0 kph

Header Position Time Altitude Depth Leg Length Leg Time Leg
Speed Leg Course

Trackpoint SE 61068 49870 02/04/2005 20:13:10 57.8 m
Trackpoint SE 61068 49870 02/04/2005 20:13:12 15.5 m 0 m
00:00:02 0 kph 0° true
Trackpoint SE 61068 49870 02/04/2005 20:13:13 15.0 m 0 m
00:00:01 0 kph 0° true

Track ACTIVE LOG 002 02/04/2005 20:13:29 00:00:12 0 m 0 kph

Header Position Time Altitude Depth Leg Length Leg Time Leg
Speed Leg Course

Trackpoint SE 61068 49870 02/04/2005 20:13:29 15.5 m
Trackpoint SE 61068 49870 02/04/2005 20:13:41 16.0 m 0 m
00:00:12 0 kph 0° true

Track ACTIVE LOG 003 02/04/2005 20:13:46 00:00:02 0 m 0 kph

Header Position Time Altitude Depth Leg Length Leg Time Leg
Speed Leg Course

Trackpoint SE 61068 49870 02/04/2005 20:13:46 57.8 m
Trackpoint SE 61068 49870 02/04/2005 20:13:47 15.5 m 0 m
00:00:01 0 kph 0° true
Trackpoint SE 61068 49870 02/04/2005 20:13:48 15.0 m 0 m
00:00:01 0 kph 0° true

Track ACTIVE LOG 004 02/04/2005 20:14:38 00:03:29 0 m 0 kph

Header Position Time Altitude Depth Leg Length Leg Time Leg
Speed Leg Course

Trackpoint SE 61068 49870 02/04/2005 20:14:38 16.5 m
Trackpoint SE 61068 49870 02/04/2005 20:14:49 17.0 m 0 m
00:00:11 0 kph 0° true
Trackpoint SE 61068 49870 02/04/2005 20:15:07 15.5 m 0 m
00:00:18 0 kph 0° true
Trackpoint SE 61068 49870 02/04/2005 20:17:10 17.0 m 0 m
00:02:03 0 kph 0° true
Trackpoint SE 61068 49870 02/04/2005 20:17:38 15.0 m 0 m
00:00:28 0 kph 0° true
Trackpoint SE 61068 49870 02/04/2005 20:18:07 16.0 m 0 m
00:00:29 0 kph 0° true

Track ACTIVE LOG 005 02/04/2005 20:35:56 00:01:00 0 m 0 kph

Header Position Time Altitude Depth Leg Length Leg Time Leg
Speed Leg Course

Trackpoint SE 61068 49870 02/04/2005 20:35:56 57.8 m
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00:00:01 0 kph 0° true
Trackpoint SE 61068 49870 02/04/2005 20:35:58 13.6 m 0 m
00:00:01 0 kph 0° true

Trackpoint SE 61068 49870 02/04/2005 20:36:56 13.6 m 0 m
00:00:58 0 kph 0° true

Track ACTIVE LOG 006 03/04/2005 10:25:47 00:00:02 0 m 0 kph

Header Position Time Altitude Depth Leg Length Leg Time Leg
Speed Leg Course

Trackpoint SE 61068 49870 03/04/2005 10:25:47 57.8 m
Trackpoint SE 61068 49870 03/04/2005 10:25:48 23.7 m 0 m
00:00:01 0 kph 0° true
Trackpoint SE 61068 49870 03/04/2005 10:25:49 23.2 m 0 m
00:00:01 0 kph 0° true

Track ACTIVE LOG 007 03/04/2005 10:27:51 00:01:17 0 m 0 kph

Header Position Time Altitude Depth Leg Length Leg Time Leg
Speed Leg Course

Trackpoint SE 61068 49870 03/04/2005 10:27:51 21.3 m
Trackpoint SE 61068 49870 03/04/2005 10:29:08 23.2 m 0 m
00:01:17 0 kph 0° true

Track ACTIVE LOG 008 04/04/2005 09:25:50 00:00:01 0 m 0 kph

Header Position Time Altitude Depth Leg Length Leg Time Leg
Speed Leg Course

Trackpoint SE 61068 49870 04/04/2005 09:25:50 57.8 m
Trackpoint SE 61068 49870 04/04/2005 09:25:51 23.7 m 0 m
00:00:01 0 kph 0° true

Track ACTIVE LOG 009 04/04/2005 09:27:25 00:24:19 1.02 km 2.5 kph

Header Position Time Altitude Depth Leg Length Leg Time Leg
Speed Leg Course

Trackpoint SE 28213 80039 04/04/2005 09:27:25 24.2 m
Trackpoint SE 28206 80041 04/04/2005 09:27:36 27.5 m 7.38 m
00:00:11 2.4 kph 289° true
Trackpoint SE 28202 80051 04/04/2005 09:27:43 30.9 m 10.4 m
00:00:07 5.4 kph 336° true
Trackpoint SE 28195 80058 04/04/2005 09:27:50 33.8 m 10.0 m
00:00:07 5.1 kph 316° true
Trackpoint SE 28182 80072 04/04/2005 09:28:02 37.1 m 19.1 m
00:00:12 5.7 kph 319° true
Trackpoint SE 28178 80089 04/04/2005 09:28:18 40.5 m 17.2 m
00:00:16 3.9 kph 346° true
Trackpoint SE 28177 80087 04/04/2005 09:28:54 41.5 m 2.77 m
00:00:36 0.28 kph 210° true
Trackpoint SE 28178 80087 04/04/2005 09:29:31 42.4 m 1.40 m
00:00:37 0.14 kph 90° true
Trackpoint SE 28177 80087 04/04/2005 09:30:30 42.0 m 1.40 m
00:00:59 0.09 kph 270° true
Trackpoint SE 28176 80091 04/04/2005 09:30:53 41.0 m 4.78 m
00:00:23 0.75 kph 360° true
Trackpoint SE 28179 80089 04/04/2005 09:31:34 42.0 m 3.68 m
00:00:41 0.32 kph 131° true
Trackpoint SE 28179 80089 04/04/2005 09:32:01 41.0 m 0 m
00:00:27 0 kph 0° true

Trackpoint SE 28178 80087	04/04/2005 09:33:29	41.0 m	2.77 m
00:01:28 0.11 kph	210° true		
Trackpoint SE 28178 80089	04/04/2005 09:34:37	41.5 m	2.39 m
00:01:08 0.13 kph	360° true		
Trackpoint SE 28178 80087	04/04/2005 09:34:56	42.0 m	2.39 m
00:00:19 0.45 kph	180° true		
Trackpoint SE 28177 80087	04/04/2005 09:35:34	42.4 m	1.40 m
00:00:38 0.13 kph	270° true		
Trackpoint SE 28178 80087	04/04/2005 09:36:24	42.0 m	1.40 m
00:00:50 0.10 kph	90° true		
Trackpoint SE 28178 80087	04/04/2005 09:36:52	42.4 m	0 m
00:00:28 0 kph 0°	true		
Trackpoint SE 28177 80087	04/04/2005 09:36:56	42.4 m	1.40 m
00:00:04 1.3 kph	270° true		
Trackpoint SE 28175 80084	04/04/2005 09:37:00	42.4 m	2.77 m
00:00:04 2.5 kph	210° true		
Trackpoint SE 28195 80056	04/04/2005 09:37:22	42.9 m	34.7 m
00:00:22 5.7 kph	146° true		
Trackpoint SE 28205 80044	04/04/2005 09:37:42	42.0 m	15.4 m
00:00:20 2.8 kph	141° true		
Trackpoint SE 28215 80027	04/04/2005 09:37:55	42.4 m	19.4 m
00:00:13 5.4 kph	150° true		
Trackpoint SE 28226 80008	04/04/2005 09:38:14	41.5 m	22.1 m
00:00:19 4.2 kph	150° true		
Trackpoint SE 28225 80003	04/04/2005 09:38:27	42.9 m	4.98 m
00:00:13 1.4 kph	196° true		
Trackpoint SE 28223 80001	04/04/2005 09:38:30	42.9 m	2.77 m
00:00:03 3.3 kph	210° true		
Trackpoint SE 28219 79994	04/04/2005 09:38:36	43.9 m	8.30 m
00:00:06 5.0 kph	210° true		
Trackpoint SE 28215 79991	04/04/2005 09:38:40	41.5 m	4.82 m
00:00:04 4.3 kph	240° true		
Trackpoint SE 28212 79989	04/04/2005 09:38:42	42.0 m	3.68 m
00:00:02 6.6 kph	229° true		
Trackpoint SE 28208 79984	04/04/2005 09:38:59	42.9 m	6.35 m
00:00:17 1.3 kph	221° true		
Trackpoint SE 28193 79960	04/04/2005 09:39:16	42.9 m	28.4 m
00:00:17 6.0 kph	213° true		
Trackpoint SE 28190 79958	04/04/2005 09:39:31	41.5 m	3.68 m
00:00:15 0.88 kph	229° true		
Trackpoint SE 28180 79943	04/04/2005 09:39:44	42.4 m	17.3 m
00:00:13 4.8 kph	214° true		
Trackpoint SE 28172 79934	04/04/2005 09:40:04	42.9 m	12.7 m
00:00:20 2.3 kph	221° true		
Trackpoint SE 28172 79934	04/04/2005 09:40:12	39.6 m	0 m
00:00:08 0 kph 0°	true		
Trackpoint SE 28172 79934	04/04/2005 09:40:13	40.5 m	0 m
00:00:01 0 kph 0°	true		
Trackpoint SE 28172 79934	04/04/2005 09:40:14	43.9 m	0 m
00:00:01 0 kph 0°	true		
Trackpoint SE 28172 79934	04/04/2005 09:40:15	43.4 m	0 m
00:00:01 0 kph 0°	true		
Trackpoint SE 28172 79934	04/04/2005 09:40:16	42.4 m	0 m
00:00:01 0 kph 0°	true		
Trackpoint SE 28155 79912	04/04/2005 09:40:33	44.4 m	27.3 m
00:00:17 5.8 kph	218° true		
Trackpoint SE 28150 79905	04/04/2005 09:40:45	42.0 m	9.09 m
00:00:12 2.7 kph	218° true		
Trackpoint SE 28151 79905	04/04/2005 09:40:50	42.4 m	1.40 m
00:00:05 1.0 kph	90° true		

Trackpoint SE 28157 79900	04/04/2005 09:40:56	43.4 m	7.35 m
00:00:06 4.4 kph	131° true		
Trackpoint SE 28171 79884	04/04/2005 09:41:11	42.9 m	21.8 m
00:00:15 5.2 kph	140° true		
Trackpoint SE 28179 79874	04/04/2005 09:41:24	42.0 m	12.7 m
00:00:13 3.5 kph	139° true		
Trackpoint SE 28178 79874	04/04/2005 09:41:33	41.0 m	1.40 m
00:00:09 0.56 kph	270° true		
Trackpoint SE 28179 79874	04/04/2005 09:41:36	41.0 m	1.40 m
00:00:03 1.7 kph	90° true		
Trackpoint SE 28183 79884	04/04/2005 09:41:58	42.0 m	10.4 m
00:00:22 1.7 kph	24° true		
Trackpoint SE 28190 79898	04/04/2005 09:43:22	42.9 m	15.9 m
00:01:24 0.68 kph	26° true		
Trackpoint SE 28194 79910	04/04/2005 09:43:42	42.9 m	12.7 m
00:00:20 2.3 kph	19° true		
Trackpoint SE 28196 79932	04/04/2005 09:44:01	43.4 m	21.5 m
00:00:19 4.1 kph	4° true		
Trackpoint SE 28205 79948	04/04/2005 09:44:18	42.9 m	19.4 m
00:00:17 4.1 kph	30° true		
Trackpoint SE 28211 79963	04/04/2005 09:44:29	42.9 m	15.4 m
00:00:11 5.0 kph	21° true		
Trackpoint SE 28253 79999	04/04/2005 09:44:59	41.5 m	55.1 m
00:00:30 6.6 kph	49° true		
Trackpoint SE 28257 80004	04/04/2005 09:45:03	41.0 m	6.35 m
00:00:04 5.7 kph	41° true		
Trackpoint SE 28265 80030	04/04/2005 09:45:25	41.0 m	27.6 m
00:00:22 4.5 kph	18° true		
Trackpoint SE 28249 80066	04/04/2005 09:45:46	41.0 m	39.0 m
00:00:21 6.7 kph	337° true		
Trackpoint SE 28232 80092	04/04/2005 09:46:16	40.5 m	31.2 m
00:00:30 3.7 kph	327° true		
Trackpoint SE 28198 80077	04/04/2005 09:47:05	41.0 m	37.7 m
00:00:49 2.8 kph	248° true		
Trackpoint SE 28196 80077	04/04/2005 09:47:14	41.0 m	1.40 m
00:00:09 0.56 kph	270° true		
Trackpoint SE 28205 80077	04/04/2005 09:47:17	41.0 m	8.38 m
00:00:03 10 kph	90° true		
Trackpoint SE 28200 80089	04/04/2005 09:47:30	41.5 m	12.7 m
00:00:13 3.5 kph	341° true		
Trackpoint SE 28197 80099	04/04/2005 09:47:39	42.4 m	9.95 m
00:00:09 4.0 kph	344° true		
Trackpoint SE 28201 80135	04/04/2005 09:48:02	42.4 m	36.1 m
00:00:23 5.6 kph	7° true		
Trackpoint SE 28217 80175	04/04/2005 09:48:34	41.0 m	43.4 m
00:00:32 4.9 kph	21° true		
Trackpoint SE 28234 80228	04/04/2005 09:49:09	41.5 m	55.6 m
00:00:35 5.7 kph	19° true		
Trackpoint SE 28243 80268	04/04/2005 09:49:33	40.5 m	41.5 m
00:00:24 6.2 kph	12° true		
Trackpoint SE 28256 80307	04/04/2005 09:49:59	41.0 m	40.7 m
00:00:26 5.6 kph	20° true		
Trackpoint SE 28269 80345	04/04/2005 09:50:23	41.5 m	40.2 m
00:00:24 6.0 kph	18° true		
Trackpoint SE 28280 80386	04/04/2005 09:50:50	41.0 m	42.1 m
00:00:27 5.6 kph	15° true		
Trackpoint SE 28282 80410	04/04/2005 09:51:08	42.9 m	24.0 m
00:00:18 4.8 kph	7° true		
Trackpoint SE 28282 80410	04/04/2005 09:51:18	41.5 m	0 m
00:00:10 0 kph	0° true		

Trackpoint	SE 28281 80410	04/04/2005 09:51:40	42.0 m	1.40 m
	00:00:22 0.23 kph	270° true		
Trackpoint	SE 28282 80405	04/04/2005 09:51:43	42.4 m	4.98 m
	00:00:03 6.0 kph	164° true		
Trackpoint	SE 28281 80405	04/04/2005 09:51:44	42.4 m	1.40 m
	00:00:01 5.0 kph	270° true		

Track ACTIVE LOG 010 04/04/2005 10:47:46 00:00:02 0 m 0 kph

Header	Position	Time	Altitude	Depth	Leg Length	Leg Time	Leg
Speed	Leg	Course					

Trackpoint	SE 28281 80405	04/04/2005 10:47:46	43.9 m				
Trackpoint	SE 28281 80405	04/04/2005 10:47:47	42.4 m			0 m	
	00:00:01 0 kph	0° true					
Trackpoint	SE 28281 80405	04/04/2005 10:47:48	42.4 m			0 m	
	00:00:01 0 kph	0° true					

Track ACTIVE LOG 011 04/04/2005 10:48:23 00:02:14 149 m 4.0 kph

Header	Position	Time	Altitude	Depth	Leg Length	Leg Time	Leg
Speed	Leg	Course					

Trackpoint	SE 28215 79996	04/04/2005 10:48:23	42.0 m				
Trackpoint	SE 28219 79999	04/04/2005 10:48:24	41.5 m			4.82 m	
	00:00:01 17 kph	60° true					
Trackpoint	SE 28216 79989	04/04/2005 10:48:27	41.5 m			9.95 m	
	00:00:03 12 kph	196° true					
Trackpoint	SE 28204 79975	04/04/2005 10:48:45	41.0 m			19.1 m	
	00:00:18 3.8 kph	221° true					
Trackpoint	SE 28184 79951	04/04/2005 10:49:07	42.9 m			30.9 m	
	00:00:22 5.1 kph	219° true					
Trackpoint	SE 28166 79927	04/04/2005 10:49:27	43.4 m			30.0 m	
	00:00:20 5.4 kph	217° true					
Trackpoint	SE 28145 79903	04/04/2005 10:49:48	43.4 m			31.8 m	
	00:00:21 5.4 kph	221° true					
Trackpoint	SE 28134 79886	04/04/2005 10:50:10	43.4 m			20.1 m	
	00:00:22 3.3 kph	214° true					
Trackpoint	SE 28134 79883	04/04/2005 10:50:37	43.4 m			2.39 m	
	00:00:27 0.32 kph	180° true					

Track ACTIVE LOG 012 04/04/2005 12:44:16 00:00:02 0 m 0 kph

Header	Position	Time	Altitude	Depth	Leg Length	Leg Time	Leg
Speed	Leg	Course					

Trackpoint	SE 28134 79883	04/04/2005 12:44:16	46.3 m				
Trackpoint	SE 28134 79883	04/04/2005 12:44:17	21.3 m			0 m	
	00:00:01 0 kph	0° true					
Trackpoint	SE 28134 79883	04/04/2005 12:44:18	21.3 m			0 m	
	00:00:01 0 kph	0° true					

Track ACTIVE LOG 013 04/04/2005 12:44:30 00:00:00 0 m 0 kph

Header	Position	Time	Altitude	Depth	Leg Length	Leg Time	Leg
Speed	Leg	Course					

Trackpoint	SE 28134 79883	04/04/2005 12:44:30	21.8 m				
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