


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p><b>7888</b></p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Chief Constable of Essex Police</h3> <p>Issue No: 025 Issue date: 20 December 2021</p>	
	<p><b>Force Forensic Laboratory</b> Essex Police Headquarters PO Box 2 Springfield Chelmsford CM2 6DA</p>	<p><b>Contact: Robin Mitchell</b> Tel: +44 (0)1622 654564 E-Mail: robin.mitchell@kent.pnn.police.uk Website: www.kent.police.uk</p>
<p><b>Testing performed by the Organisation at the locations specified</b></p>		

### Locations covered by the organisation and their relevant activities

Delivery of the forensic services, as listed, through the Force Forensic Laboratory in collaboration with Kent Police

Location details	Activity	Location code
<p><b>Address</b> Essex Police Headquarters Sandford Road Chelmsford Essex CM1 6DN United Kingdom</p> <p><b>Local contact</b> Contact: Adam Davis Tel: +44 (0)1245 457173 E-Mail: adam.davis@essex.pnn.police.uk Website: www.essex.police.uk</p> <p><b>Local contact</b> Contact: Russell Leach Tel: +44 (0)1622 654789 E-Mail: Russell.leach@kent.pnn.police.uk Website: www.kent.police.uk</p> <p><b>Local contact</b> Contact: David Wicks Tel: +44 (0)1245 491491 E-Mail: David.wicks@essex.pnn.police.uk Website: www.essex.police.uk</p>	<p><b>Forensic Analysis:</b> DNA Recovery</p> <p>Digital Forensics</p> <p>Fingerprint Comparison</p>	A
<p><b>Address</b> Durham House Durham Road Laindon Basildon Essex SS15 6PH United Kingdom</p> <p><b>Local contact</b> Contact: Madeline Bayer Tel: +44 (0)1245 452590 E-Mail: madeline.bayer@essex.pnn.police.uk Website: www.essex.police.uk</p>	<p><b>Forensic Analysis:</b> Fingerprint Enhancement</p>	B
<p><b>Address</b> Kent Police Sutton Road Maidstone Kent ME15 9BZ</p> <p><b>Local contact</b> Contact: Russell Leach Tel: +44 (0)1622 654789 E-Mail: Russell.leach@kent.pnn.police.uk Website: www.kent.police.uk</p>	<p><b>Forensic Analysis:</b> Digital Forensics</p>	C



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	<u>Forensic Analysis</u>	The organisation has demonstrated adherence to the relevant requirements of the Forensic Science Regulators Code of Practice and Conduct in relation to their Forensic Activities	A, B, C
BODY FLUIDS and TISSUES	<u>Forensic Analysis</u>		
Any Material	Searching for: - Blood	Documented In-House Methods (SOPDNA004) using: - visual examination - white light - lower power microscopy - chemical testing (see below)	A
	Recovery and preparation, including for contingency purposes, for subsequent DNA analysis by an ISO/IEC 17025 accredited laboratory of the following from searched materials: - Blood - Cellular Material	Documented In-House Methods using: - Cutting (SOPDNA001b) - swabs and swabbing (SOPDNA001a, 002)	A
Blood	Presumptive testing for Blood via detection of: - Peroxidase	Documented In-House Methods (SOPDNA005) using: - KM (Kastle Meyer)	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p><b>MARKS AND IMPRESSIONS</b></p> <p>Fingermarks Any material which is capable of retaining friction ridge marks</p>	<p><u>Forensic Analysis</u></p> <p>Enhancement of fingermarks, palm marks and plantar marks</p>	<p>Documented In-House Methods using chemical and physical enhancement techniques (method numbers provided in brackets):</p> <ul style="list-style-type: none"> <li>- Acid Dye Treatments (water/ethanol/acetic acid formulation) (SOPCEL007): Acid Black 1 Acid Violet 17 Acid Yellow 7</li> <li>- Cyanoacrylate (CNA) Fuming (SOPCEL002)</li> <li>- Basic Yellow 40 (BY40) (ethanolic) (SOPCEL009)</li> <li>- 1,8-Diazafluoren-9-one (DFO) (SOPCEL003)</li> </ul>	<p align="center"><b>B</b></p>



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<p>MARKS AND IMPRESSIONS (cont'd)</p> <p>Fingermarks Any material which is capable of retaining friction ridge marks</p>	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Enhancement of fingermarks, palm marks and plantar marks</p>	<p>Documented In-House Methods using chemical and physical enhancement techniques (method numbers provided in brackets)</p> <ul style="list-style-type: none"> <li>- Ninhydrin (SOPCEL004)</li> <li>- Powder Suspensions (SOPCEL006): Iron Oxide based – black Carbon based - black, Titanium dioxide based - white</li> <li>- Powdering Techniques (SOPCEL008): black granular powder aluminium flake powder black magnetic powder</li> <li>- Physical Developer (SOPCEL005)</li> </ul>	<p align="center">B</p>



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Developed fingerprint marks	Determination of the presence of friction ridge characteristics for the purpose of subsequent comparison	<p>Documented In-House Methods using visual and lighting enhancement techniques</p> <ul style="list-style-type: none"> <li>- Visual examination</li> <li>- White Light (SOPCEL017)</li> <li>- High Intensity Light Sources (SOPCEL025 / 026 / 027)               <ul style="list-style-type: none"> <li>- Crime-Lite 82S UV (<math>\lambda=350-380\text{nm}</math>)</li> <li>Blue (<math>\lambda=420-470\text{nm}</math>)</li> <li>Green (<math>\lambda=480-560\text{nm}</math>)</li> </ul> </li> <li>- TraCER laser Green (<math>\lambda=532\text{nm}</math>)</li> <li>- Crimelite ML Blue (<math>\lambda =420-470\text{nm}</math>)</li> </ul> <p>Documented In-House Methods for imaging / digital capture (SOPCEL028 / 030 / 046 / 047)</p> <ul style="list-style-type: none"> <li>- DCS5 (SOPCEL030)</li> <li>- IRIS (SOPCEL028)</li> <li>- Digital SLR (SOPCEL046 / 047)</li> </ul> <p>Documented In-House methods using visual examination (SOPCEL018)</p>	B



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MARKS AND IMPRESSIONS (cont'd)  Fingermark, palm and plantar mark friction ridge detail	<u>Forensic Analysis</u> (cont'd)  Visual analysis, comparison and evaluation of recovered friction ridge detail with finger, thumb, palm and plantar marks from: <ul style="list-style-type: none"><li>- Known ink TENPRINTS</li><li>- Known electronic TENPRINTS</li><li>- Known ink plantar print</li></ul> <u>Opinion and Interpretation</u> The evaluation of features between fingermark, palm and plantar mark friction ridge detail	Documented In-House methods (SOPHUB004, 006a and 006b) using visual examination, low power magnification, comparators dimensional measurements and reference databases  Documented In-House methods (SOPHUB004, 027 and 029) using <ul style="list-style-type: none"><li>- Personal experience</li><li>- database</li></ul>	A



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DIGITAL DEVICES AND DATA	<u>Forensic Analysis</u>		
Computers			
Computers and digital storage devices	physical capture and preservation of data.	Documented in-house method(s) (SOPDFU002, 044, 062) using <ul style="list-style-type: none"> <li>- Paladin</li> <li>- Digital Collector (macOS only)</li> <li>- Digital Evidence Investigator</li> <li>- FTK Imager Lite</li> </ul>	A,C
Computers and digital storage devices	Physical capture and preservation of data	Documented in-house method(s) (SOPDFU002, 25) using: <ul style="list-style-type: none"> <li>- Tableau TD3</li> <li>- FTK Imager</li> <li>- EnCase</li> <li>- X-Ways Forensics</li> <li>- Tableau T8u</li> </ul>	A,C
Data associated with the following: <ul style="list-style-type: none"> <li>- Microsoft Windows</li> <li>- macOS</li> </ul>	Processing of data	Documented in-house method(s) (SOPDFU060, AXIOM Guidance,) using: <ul style="list-style-type: none"> <li>- AXIOM</li> </ul>	A,C
Data associated with the following: <ul style="list-style-type: none"> <li>- Microsoft Windows</li> </ul>	Processing of data	Documented in-house method(s) (SOPDFU060, Nevis Guidance) using: <ul style="list-style-type: none"> <li>- Nevis</li> </ul>	A,C
Data associated with the following: <ul style="list-style-type: none"> <li>- Microsoft Windows</li> <li>- macOS</li> </ul>	Processing and Analysis of data	Documented in-house method(s) (SOPDFU060, X-Ways Guidance) using <ul style="list-style-type: none"> <li>- X-Ways Forensics</li> </ul>	A,C
Data associated with the following: <ul style="list-style-type: none"> <li>- macOS</li> </ul>	Processing and Analysis of data	Documented in-house method(s) (SOPDFU060, Cellebrite Inspector Guidance) using Inspector	A,C



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DIGITAL DEVICES AND DATA Computers (cont'd)	<u>Forensic Analysis</u>		
Computers - Hard disk drives - Solid state drives - Memory cards - USB flash drives	Screening of digital media for the following: - Digital Images - Digital video - Emails - Documents - Web history - Keywords	Documented in-house method(s) (SOPDFU002, SOPDFU038) using Digital Evidence Investigator (Windows only)	A,C
Mobile Phones			
Mobile phone handsets and tablets associated with the following operating systems:  - Non-smartphone proprietary systems - Google Android	Logical capture and preservation of data	Documented in-house method(s) (SOPDFU031) using: - XRY - UFED	C
- Non-smartphone proprietary systems - Google Android	Physical capture and preservation of data	Documented in-house method(s) (SOPDFU031) using: - XRY - UFED	C
- Non-smartphone proprietary systems - Google Android	Physical capture and preservation of data	Documented in-house method(s) (SOPDFU045) using: - Chip adaptors and FTK Imager	C
- Apple iOS	Logical capture and preservation of data	Documented in-house method(s) (SOPDFU031 & 050) using: - Physical Analyzer - XRY - Proprietary software	C
- Apple iOS - Google Android - Non-smartphone proprietary systems	Processing and analysis of data	Documented in-house method(s) (SOPDFU031) using: - XRY / XAMN - Physical Analyzer	C





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(U)SIM cards  Memory cards associated with mobile phone handsets and tablets	Logical capture and preservation of data	Documented in-house method(s) (SOPDFU031) using: - XRY	C
	Processing and analysis of data	Documented in-house method(s) (SOPDFU031) using: - XRY / XAMN	C
	Logical capture preservation of data via handset	Documented in-house method(s) (SOPDFU031) using: - XRY	C
	Physical capture and preservation of data	Documented in-house method(s) (SOPDFU031 & 025) - FTK Imager and write blockers - EnCase and write blockers	C
	Processing and analysis of data	Documented in-house method(s) (SOPDFU031) using: - XRY /XAMN - Physical Analyzer	C
<b>END</b>			