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Forensic Science and Identification Services Laboratory Report	Rapport du laboratoire des services des sciences judiciaires et de l'identité
Firearms Section	Section des armes à feu
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To - À: District Commander i/c RCMP Trinity Conception District - Harbour Grace Attn: Cst. Mike Nippard BOX 550, 140 Cathedral Street Harbour Grace, NL A0A 2M0	**From - De:** Greg Williams Firearms Section National Forensic Laboratory Services - Ottawa 1200 Vanier Parkway Ottawa, ON K1A 0R2
Your File No./Votre no de dossier: **2015-376186** Reference/Référence: **Deceased: DUNPHY, Donald** **Complainant: SMYTH, Joseph**	Lab File No./No de dossier du lab: **2015N-002804** Security Class./ Class. sécuritaire: **Protected - A** Date of Issue/Date d'émission: **2015-09-23** Section Report No./No de rapport de la sect: **One**

Exhibits Examined:

Exhibit No.	Lab No.	Description
PE4	0002	One (1) Ranger single shot, bolt action, rifle, calibre .22 Long Rifle, not serial numbered.
PE8	0003	One (1) Sig Sauer model P226 semi-automatic pistol, calibre .40 S & W, serial number UU604553.
PE1	0001	Four (4) expended cartridge cases.
PE11	0004	Two (2) metal fragments.
PE12	0005	One (1) fired bullet.
PE13	0006	One (1) fired bullet.
PE14	0007	One (1) fired bullet.
PE15	0008	One (1) fired bullet.
PE21	0009	One (1) shirt.
PE23	0010	One (1) shirt.
PE2	0012	One (1) cartridge.
PE37	0011	Twenty (20) cartridges.

Forensic Analysis:

1. Analysis was conducted to determine the mechanical condition and legal classification of the rifle, Exhibit PE4. This analysis included examination, taking pertinent measurements, and test firing.

2. Analysis was conducted to determine the serial number of the rifle, Exhibit PE4. This analysis included visual examination and research.

3. Analysis was conducted to determine the mechanical condition of the pistol, Exhibit PE8. This analysis included examination, taking pertinent measurements, and test firing.

4. Analysis was conducted to determine if the expended cartridge cases, Exhibit PE1, were fired in the pistol, Exhibit PE8. This analysis included microscopic examinations and comparisons.

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5. Analysis was conducted to determine if the metal fragments, Exhibit PE11 and or the fired bullets, Exhibits PE12, PE13, PE14, and PE15, were fired from the pistol, Exhibit PE8. This analysis included microscopic examinations, comparisons, and chemical spot tests.

6. Analysis of the shirts, Exhibit PE21 and PE23, was conducted to determine the presence of gunshot damage, the direction of projectile travel and the muzzle to target distance at the time of discharge. This analysis included visual examination, chemical testing for firearm discharge residue and comparison to test firearm discharge residue patterns.

7. Analysis was conducted to determine whether the cartridge, Exhibit PE2, is ammunition as defined in the Criminal Code of Canada and to determine whether it can be discharged in the rifle, Exhibit PE4. This analysis included examination of the cartridge and test firing it in the rifle, Exhibit PE4.

8. Analysis was conducted to determine whether the cartridges, Exhibit PE37, can be discharged in the pistol, Exhibit PE8. This analysis included examination of the cartridges and test firing a sample in the pistol, Exhibit PE8.

Results:

1. During testing the rifle, Exhibit PE4, discharged conventional ammunition designed to attain a velocity exceeding 152.4 m per second and an energy exceeding 5.7 Joules.

2. The rifle, Exhibit PE4, was not serial numbered.

3. During testing the pistol, Exhibit PE8, discharged conventional ammunition designed to attain a velocity exceeding 152.4 m per second and an energy exceeding 5.7 Joules.

4. Class characteristics and individual characteristics were observed to be in agreement between the expended cartridge cases, Exhibit PE1, and tests fired in the pistol, Exhibit PE8.

5. The metal fragments, Exhibit PE11, are not suitable for comparison and chemical spot tests indicated the presence of lead. Class characteristics and individual characteristics were observed to be in agreement between the fired bullets, Exhibits PE12, PE13, PE14, and PE15, and tests fired from the pistol, Exhibit PE8.

6. There was at least one area of damage with characteristics consistent with gunshot damage on each of the shirts, Exhibit PE21 and PE23. Traces of copper and lead were detected around these areas. No firearm discharge residue pattern was observed or detected around these areas.

7. The cartridge, Exhibit PE2, is of a design suitable for use in the rifle, Exhibit PE4, and this cartridge was discharged in said rifle.

8. The cartridges, Exhibit PE37, are of a design suitable for use in the pistol, Exhibit PE8, and a representative sample of these cartridges was discharged in said pistol.

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Conclusions:

1. The rifle, Exhibit PE4, is a firearm within the meaning of Section 2 of the Criminal Code of Canada, in that it is a barrelled weapon from which a projectile can be discharged and that is capable of causing serious bodily injury or death to a person, furthermore it is a non-restricted firearm within the meaning of Section 84(1) of the Criminal Code of Canada in that it is a firearm that is neither a prohibited firearm nor a restricted firearm.

2. The rifle, Exhibit PE4, was not serial numbered.

3. The pistol, Exhibit PE8, functioned normally and discharged conventional ammunition in a semi-automatic manner.

4. Three (3) of the four (4) expended cartridge cases, Exhibit PE1, were fired in the pistol, Exhibit PE8. The fourth expended cartridge case of Exhibit PE1 was cycled through the action of the pistol, Exhibit PE8.

5. The metal fragments, Exhibit PE11, were found to contain lead. The fired bullets, Exhibits PE12, PE13, PE14, and PE15, were fired from the pistol, Exhibit PE8.

6. The shirts, Exhibit PE21 and PE23, each have damage to the upper left chest area that is consistent with having been caused by the passage of a bullet or other projectile fired at a distant range or through an intermediate target. Distant range is the distance from muzzle to target at which no firearm residue pattern would be deposited on the target. This distance has been determined to be beyond 30" (76 cm) using the combination of the pistol, Exhibit PE8, and the cartridges, Exhibit PE37

7. The cartridge, Exhibit PE2, is ammunition within the meaning of Section 84(1) of the Criminal Code of Canada, in that it is a cartridge containing a projectile designed to be discharged from a firearm.

8. The cartridges, Exhibit PE37, are functional ammunition.

Remarks:

1. The exhibits are all being returned to this laboratory's Evidence Management Unit for return to your detachment. Should additional analysis, a complete record of exhibit continuity (receipt, examination and disposition), or document disclosure be required, please contact the Forensic Assessment Centre (FAC) of Forensic Science and Identification Services at 1-8[redacted]227, by FAX at 1-87[redacted]047 or by e-mail at FAC-CEJ@[redacted]

2. Test samples fired in the rifle, Exhibit PE4, have been forwarded to Canadian Integrated Ballistic Identification Network (CIBIN) for data acquisition and correlation. The results of the comparison to CIBIN entries will be reported.

3. Results/Conclusions reported in this document apply only to the exhibits/items tested. This report is intended to be used only as a complete document.

4. The conclusion section is comprised of opinions that are based on the interpretation of the available data.

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