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APPENDIX I:
National Codes of Practice for the use of 1080
Glossary

Definition of terms as used in this document:

1080 is the term applied to the chemical sodium monofluoroacetate or sodium fluoroacetate used as the poison for pest animal control.

1080 product a product registered by the APVMA that contain 1080.

APVMA Australian Pesticides and Veterinary Medicines Authority is the Australian government authority that is responsible for the assessment and registration of pesticides and veterinary medicines and for regulation up to the point of sale.

Authorised 1080 User is a person permitted by the Chemicals Coordinator to use 1080.

Approval to purchase a 1080 chemical product and conduct a 1080 baiting program is issued by the Chemicals Coordinator to a property owner, manager or occupier that allows 1080 baits to be laid on the specified property and provides the holder with the authority to purchase 1080 product from a retailer licensed by the Department of Health and Families to sell 1080 products.

Bait laying is the placement of 1080 baits in a specified location, along a trail or dispersed along a specified flight path.

Carnivore a flesh eating animal.

CASA Civil Aviation Safety Authority.

Chemicals Coordinator A statutory position that approves authorisations and conditions for use of 1080 products.

CLA Aboriginal people in the Northern Territory unable to claim their traditional lands under the Land Rights Act because of the grant of pastoral leases can get title to small areas of land on the pastoral leases known as Community Living Areas.

DRDPIFR The Department of Regional Development, Primary Industry, Fisheries and Resources. A Department of the Northern Territory Government.

Deleterious Having a harmful or damaging effect on something.

Fecundity The ability to produce offspring, particularly in large numbers.

GPS Global Positioning System is a collection of 24 earth orbiting satellites that allows any person with a GPS receiver to precisely determine the longitude, latitude and altitude anywhere on the planet.
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herbivore</td>
<td>an animal that feeds on plants.</td>
</tr>
<tr>
<td>Invertebrates</td>
<td>An animal that does not have a backbone.</td>
</tr>
<tr>
<td>Label instruction</td>
<td>a direction for use that is on the product label.</td>
</tr>
<tr>
<td>Macropod</td>
<td>Macropods are marsupials belonging to the family macropodidae which includes kangaroos and wallabies</td>
</tr>
<tr>
<td>MSDS</td>
<td>Material Safety Data Sheet.</td>
</tr>
<tr>
<td>Neighbour</td>
<td>Neighbour is a property that shares a property boundary or is directly opposite a boundary that shares a road way or right of way.</td>
</tr>
<tr>
<td>NRETAS</td>
<td>The Department of Natural Resources, Environment, the Arts and Sport. A Department within the Northern Territory Government.</td>
</tr>
<tr>
<td>NRETAS permit</td>
<td>is issued by the Department of Natural Resources, Environment, the Arts and Sport that allows intentional or unintentional harm to animals that may be protected.</td>
</tr>
<tr>
<td>Omnivore</td>
<td>an animal that feeds on both animal and vegetable substances.</td>
</tr>
<tr>
<td>Pest animal</td>
<td>is one that is a nuisance, endangers humans or the environment or causes economic loss to primary production.</td>
</tr>
<tr>
<td>Product Label</td>
<td>The label that has been approved by the APVMA and is affixed to the product container.</td>
</tr>
<tr>
<td>Public road</td>
<td>a road that is gazetted to be a public road.</td>
</tr>
<tr>
<td>RCP</td>
<td>a product declared by the APVMA to be a restricted chemical product that can only be used by authorised persons.</td>
</tr>
<tr>
<td>Ready to use bait</td>
<td>those baits that are manufactured in a factory and include 1080 poison.</td>
</tr>
<tr>
<td>S7</td>
<td>Schedule 7 is the most dangerous category of poisons.</td>
</tr>
<tr>
<td>Supply</td>
<td>is to provide, give or deliver whether or not there is consideration or expectation of a fee or reward.</td>
</tr>
<tr>
<td>Water course</td>
<td>a path that water would flow along and may or may not contain water.</td>
</tr>
<tr>
<td>Watering point</td>
<td>a natural or controlled source of water where animals come to drink.</td>
</tr>
<tr>
<td>Wild dog</td>
<td>a term to describe dingo hybrids, feral dogs and dogs run wild.</td>
</tr>
</tbody>
</table>
Frequently asked questions

**What training do I need to conduct 1080 baiting in the NT?**

- A ChemCert Certificate 3 Level or SmartTrain Chemical Application Course AQF3 through an accredited training provider;
- Completion of the 1080 training program through an accredited training provider (RTE3406A: Implement a Vertebrate Pest Control Program).

**What documentation do I need before I conduct baiting?**

- Authorisation to use 1080 baits – this is issued, upon application, to individuals that have completed the ChemCert or SmartTrain course as well as the 1080 training (applications should be made to the Department of Regional Development, Primary Industry, Fisheries and Resources DRDPIFR);
- Approval to purchase a 1080 chemical product and conduct a 1080 baiting program. This is issued to the property owner once they have determined that they require baiting (applications should be made to DRDPIRM);
- A Permit to take protected wildlife for 1080 pest animal control (this is issued by the Department of Natural Resources, Environment, The Arts and Sport NRETAS, but the application should be attached to the application made to DRDPIFR).

**Who can purchase 1080 baits?**

Only an individual that has:

- Completed ChemCert / SmartTrain;
- Completed the 1080 training course;
- An authorisation to use 1080 baits (from DRDPIFR);
- An Approval to purchase a 1080 chemical product and conduct a 1080 baiting program baits or is a nominee on an authorisation form (from DRDPIFR);
- Photo identification must also be shown at the time of purchase.

**Can I apply to bait several of my properties on one application?**

No. You will need a separate application for each property.
**Who can lay baits?**

Only individuals that have a ChemCert or SmartTrain ticket and that have undertaken the 1080 training course. These individuals will also need to hold an authorisation to use 1080 baits, an “Approval to purchase a 1080 chemical product and conduct a 1080 baiting program” obtained from the DRDPIFR, and “Permit to take protected wildlife for 1080 pest animal control” obtained from NRETAS.
Introduction

Pest animals can have undesirable environmental and economic impacts. Significant impacts can occur to crops, livestock and our native fauna and flora. Management of these impacts is a shared responsibility and all parties should have a clear understanding of their roles, responsibilities and methods of management of pest animals. Use of a poison to control pest animals is only one of a number of tools that should be considered to control pest animals.

What is 1080?

The chemical name for 1080 is sodium fluoroacetate or sodium monofluoroacetate. It occurs naturally in several Australian native plants but it is also manufactured commercially as a pesticide. It is highly soluble in water and generally odourless and tasteless to humans. When mixed with water, the solution is colourless, although commercial manufacturers add coloured dye to the powder to enable the solution to be easily identified. It is broken down by high temperature as well as by naturally occurring bacteria and fungi. It therefore does not cause a build-up of toxic residues in soil, water or plants. In the NT, 1080 is registered as a Schedule 7 poison under the Poisons and Dangerous Drugs Act, which means that its use is restricted to authorised Government pest control officers.

Sodium fluoroacetate or sodium monofluoroacetate (1080) is the active poison in restricted chemical products (RCPs) that are registered by the Australian Pesticide and Veterinary Medicines Authority (APVMA) for use to control feral pigs, foxes, rabbits and wild dogs. Dingo hybrids are included in the wild dog definition. Restricted Chemical products (RCP’s) are only to be supplied to or used by authorised persons.

Supply and use of 1080 is controlled in the Northern Territory as it is a very toxic Schedule 7 (S7) poison and a RCP. Approval is required from the Chemicals Coordinator, Department of Regional Development, Primary Industry, Fisheries and Resources (DRDPIFR) to enable the purchase and use of 1080.

Dingoes and other native wildlife are protected in the Northern Territory. Therefore the use of 1080 requires a permit from the Department of Natural Resources Environment, The Arts and Sport (NRETAS) to ensure that no unintended harm occurs to protected animals from 1080 baiting (“Permit to take protected wildlife for 1080 pest animal control”).
**How does 1080 work?**

1080 is a broad-spectrum poison that interferes with an animal’s ability to produce energy from food, thus, poisoned animals are not able to meet their energy needs. There is a lag time between the ingestion of 1080 and the appearance of signs of poisoning. In mammals, this lag is between 0.5 and 20 hours. There is a wide variation in the sensitivity of different animal groups (families) to 1080. Canids (dogs and foxes) are among the most sensitive; herbivores and birds are less sensitive, and reptiles, fish and amphibians are relatively insensitive to 1080. The Lethal Dose 50 (LD$_{50}$) is the most common measures of toxicity. This equates to the amount of toxin (mg) per kg body weight required to kill 50% of test animals. Following is a list of LD$_{50}$ values for some common species, illustrating that dogs and foxes are very susceptible.

<table>
<thead>
<tr>
<th>Species</th>
<th>LD$_{50}$ (mg/kg body weight)</th>
<th>Average adult body weight (kg)</th>
<th>Amount required for LD$_{50}$ (mg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dog</td>
<td>0.11</td>
<td>14.5</td>
<td>1.6</td>
</tr>
<tr>
<td>Fox</td>
<td>0.12</td>
<td>6.5</td>
<td>0.78</td>
</tr>
<tr>
<td>Cat</td>
<td>0.35</td>
<td>4.4</td>
<td>1.54</td>
</tr>
<tr>
<td>Rabbit</td>
<td>0.4</td>
<td>1.6</td>
<td>0.64</td>
</tr>
<tr>
<td>Cattle</td>
<td>0.4</td>
<td>450</td>
<td>180</td>
</tr>
<tr>
<td>Pig</td>
<td>1.02</td>
<td>55</td>
<td>56.1</td>
</tr>
<tr>
<td>Human</td>
<td>2</td>
<td>80</td>
<td>160</td>
</tr>
<tr>
<td>Wedge-tailed eagle</td>
<td>9.1</td>
<td>4.85</td>
<td>44.14</td>
</tr>
<tr>
<td>Crow</td>
<td>12.8</td>
<td>0.38</td>
<td>4.86</td>
</tr>
</tbody>
</table>

There is no effective antidote for 1080 poison. The mode of death depends on the species. For instance, herbivores experience cardiac failure; carnivores experience failure of the central nervous system; and the cardiac and central nervous systems are both affected in omnivores.

In the event of a sub-lethal dose of 1080 being received (either accidentally or intentionally), it is usually excreted from the body within approximately 24 hours. 1080 can be absorbed through cuts and abrasions, but is **not** readily absorbed through unbroken skin. However, it is recommended that individuals seek medical advice in the event that they are exposed to 1080.
Policy and Legislation

Where 1080 poisoning is likely to be the only effective method of control for a problem animal, individuals that have received the appropriate training and who possess the appropriate authority under the Agricultural and Veterinary Chemicals (Control of Use) Act and the Territory Parks and Wildlife Conservation Act, may be awarded a permit to undertake 1080 baiting in accordance with approved legislation, policies and procedures. There are national codes of practice for the use of 1080 for rabbits, foxes, feral pigs and wild dogs (Appendix I).

There are seven Acts that are relevant to the use of vertebrate pesticides in the Northern Territory:

- The Territory Parks and Wildlife Conservation Act
- The Animal Welfare Act
- The Agriculture and Veterinary Chemicals (Control of Use) Act 2004
- The Poisons and Dangerous Drugs Act
- The Workplace Health and Safety Act 2007
- The Dangerous Goods Act

**Territory Parks and Wildlife Conservation Act**

Under the Territory Parks and Wildlife Conservation Act, all native vertebrates are protected across all land tenures throughout the Northern Territory (section 43). Section 66 of the Act prohibits the taking, interference with, possession, control or movement of protected wildlife unless authority to do so is granted under the Act. Therefore a NRETAS permit is required when undertaking baiting as protected animals may be unintentionally harmed as the result of baiting pest animal’s with 1080 (“Permit to take protected wildlife for 1080 pest animal control”).

**Animal Welfare Act**

Under section 17 of the Animal Welfare Act, a person must not administer poison to an animal or lay poison in a place with the intention of killing an animal unless authorised by a law in force in the Northern Territory. The Act requires that the Chemicals Coordinator is satisfied that the user is competent and has a genuine and sufficient reason to use an RCP and a Schedule 7 (S7) product. The Legislation enforces the product label instructions and in the case of S7’s and RCP’s provides the power to impose additional requirements or makes variations to controls on the label.
Agricultural and Veterinary Chemicals (Control of Use) Act 2004

The Agricultural and Veterinary Chemicals (Control of Use) Act and Regulations controls use of agricultural and veterinary chemical products including S7 and RCPs. Controls on supply of S7 and RCPs is also imposed by this legislation. The legislation enforces the product label instructions and imposes additional requirements or makes variations to controls on the label.

Poisons and Dangerous Drugs Act

The Poisons and Dangerous Drugs Act (PDDA) regulates the sale, supply, storage, possession and use of poisons and dangerous drugs, including vertebrate pesticides such as alpha-chloralose, pindone, phosphine and 1080. 1080 is listed in Schedule 7 (S7) of this Act, the most dangerous category of poisons. Supply of S7 poisons is only by retailers who have been licensed by the Department of Health and Families. Licensed retailers can only supply 1080 products to persons that have an authorisation from DRDPIFR to purchase 1080 products.

Workplace Health and Safety Act 2007

The Workplace Health and Safety Act is also applicable and it requires that occupational health and safety practices are applied in the workplace.

The Dangerous Goods Act

The Dangerous Goods Act and the Dangerous Goods Regulations provide for the regulation of the manufacture, packaging, labelling, import and export, sale, transport, storage, use and disposal of all classes of dangerous goods other than radioactive substances or dangerous goods being used on mine sites. Substances are classified as dangerous goods if they are explosive, flammable, toxic, corrosive or exhibit chemical properties that are potentially dangerous to people or property.

Commonwealth Legislation

The Agricultural and Veterinary Chemicals Code Act classifies products that require special skills or equipment to safely handle and apply the product to be declared to be a RCP. RCP’s are only available to authorised persons. This means that the persons must have the skills required before they can be authorised to purchase or use the RCP.
Training and Accreditation to use 1080 baits

Individuals seeking approval to use 1080 to control native or introduced wildlife will require the following:

- A ChemCert Certificate 3 Level or SmartTrain Chemical Application Course AQF3 through an accredited training provider;
- Completion of the 1080 training program through an accredited training provider (RTE3406A: Implement a Vertebrate Pest Control Program);
- An authorisation to use 1080 from DRDPIFR;
- An Approval to purchase a 1080 chemical product and conduct a 1080 baiting program (DRDPIFR);
- A Permit to take protected wildlife for 1080 pest animal control.

The 1080 training qualification will be valid for five (5) years in alignment with SmartTrain or ChemCert.

Once the training is completed, individuals will be required to apply for an “Authorisation to use 1080” (issued by DRDPIFR) (Attachment B). Reaccreditation will be required to renew the 1080 user authorisation. The 1080 user authorisation will stipulate the conditions of your authorisation. It is not an authorisation to purchase 1080 products.

In order to purchase and lay 1080 baits, the following criteria must be met (Attachment A). Individuals are required to obtain an “Approval to purchase a 1080 chemical product and conduct a 1080 baiting program” (DRDPIFR) (Attachment C) and a “Permit to take protected wildlife for 1080 pest animal control” (NRETAS) (Attachment D). A new permit is required to be obtained for each baiting session.
Permit requirements

To conduct a 1080 baiting program the **owner, landholder or manager** of the property must make application to the Chemicals Coordinator DRDPIFR. The first part of the application is to NRETAS for a “Permit to take protected wildlife for 1080 pest animal control” (Part A). The second part of the application is for “Approval to purchase a 1080 chemical product and conduct a 1080 baiting program” (Part B). A successful application will result in the applicant being issued with both an “Approval to purchase a 1080 chemical product and conduct a 1080 baiting program” and a permit to interfere with wildlife.

*Flowchart demonstrating the process that is required to be undertaken when seeking approval to lay 1080 baits*

Form (including Part A and B) received by DRDPIFR Chemical Services

| Part B Assessed by Chemical Services |
| If Part A and B Approved |
| DRDPIFR Chemical Services issues: |
| • Approval to purchase a 1080 chemical product and conduct a 1080 baiting program |
| DRDPIFR Chemical Services forwards to Applicant: |
| • Approval to purchase a 1080 chemical product and conduct a 1080 baiting program |
| • Permit to Interfere with Wildlife |
| Part A assessed by NRETAS |
| If Part A is approved NRETAS will issue a Permit to take protected wildlife for 1080 pest animal control. This will include information about the number of baits permitted. |
Requirements of a permit holder:

- All directions and conditions specified on the permit must be followed.
- Any non-target casualties are to be reported immediately to a NRETAS Permits Officer by the permit holder by fax or email.
- Must follow all relevant instructions in the Directions for Use of 1080 for Pest Animal Control.
The label instructions must be followed and are enforceable under the *Agricultural and Veterinary Chemicals (Control of Use) Act and Regulations*. However, the APVMA instructions allow jurisdictions to vary some specified instructions in order to take account of local conditions. Where the instructions in this document are different to those on the label, they must be followed.
General Conditions Required For Use Of 1080

- Use is restricted to ready-to-use manufactured 1080 baits.
- Use of 1080 manufactured baits for wild dog and fox control is limited to properties of 40 hectares or greater.
- Use of 1080 manufactured baits for feral pig control is limited to properties of 10 hectares or greater.
- Baits must not be laid within 3 km of a dwelling, (other than own dwelling), or place of habitation (including Community Living Areas (CLAs), roadside reserves, designated roadside rest stops, truck parking bays, fuel stops, tourist attractions) and any other public amenity area.
- Period of authorisation to lay 1080 baits will be the same as the NRETAS permit. This maximum length of a permit will be one month, however where the risk of unintended consequences is high, shorter-term permits may be issued (e.g. Death of domestic animals or native, non-target wildlife).
- 1080 baits are not the preferred option for rabbit control. Manufactured baits that contain pindone are the preferred baits for this purpose.

Exception to above requirement is subject to approval after assessment by the Chemicals Coordinator. Examples of additional requirements that may be imposed are:

(a) Waiving of the 3 km restriction if agreement is reached with neighbours, in which case baits are to be marked and recovered, and

(b) Baits are to be buried.
Carrying out 1080 baiting

The maximum number of baits that can be laid on a property during a single baiting exercise may vary depending on the target species, the size of the property and the biodiversity value of the property. Previous baiting cover may also be considered when assessing applications. In the case of wild dogs, the number will be determined by either:

(a) Multiplying the number of registered bores and dams on the property by 25 or
(b) Dividing the total property size in square km by 3. The largest of these figures is the maximum.

Standard precautionary measures must be adopted and followed during all phases of operations – i.e. during preparation, application and at completion or disposal.

The 1080 Material Safety Data Sheet (MSDS) - (Attachment E) and appropriate first aid instructions must be readily available in all situations where 1080 and products containing 1080 are stored or used.

Planning

When planning to undertake a baiting operation, the following steps should be followed:

1. Identify the pest and assess how much damage is being done. Only use 1080 if it is needed.
2. Identify if another method may be used rather than using 1080.
3. Seek advice on the proper method of control.
4. Use only the recommended pesticide for the problem.
5. If you decide to go ahead with the baiting operation, assess the number of baits that are required for the extent of the problem and the size of the property.
6. Plan your baiting to coincide with appropriate weather conditions and breeding seasons.
Supply and purchase of 1080 baits

The supply of 1080 products which are a Schedule 7 and a RCP by a licensed S7 poisons retailer must only be made to an individual who has an “Approval to purchase a 1080 chemical product and conduct a 1080 baiting program” (Attachment A) or who is nominated on this document. Supply will only be made on sighting of the original DRDPIFR, “Approval to purchase a 1080 chemical product and conduct a 1080 baiting program” and verification of the person’s identity with photo identification (e.g. drivers licence). The quantity and type of 1080 product approved for purchase will be stipulated on the documentation.

Under no circumstances will a person other than a stipulated authorised 1080 user or a nominee on the authorisation be allowed to take possession of 1080 products from a licensed S7 poisons retailer. Only individuals that are trained in the use of 1080 may purchase 1080 baits.

Storage of 1080

When not in use, 1080 products must be stored in a locked storage container that is securely fixed within a non-domestic building (no living or habitation). The only person that can have access to the locked container is the individual who is the holder of the “Approval to purchase a 1080 chemical product and conduct a 1080 baiting program”.

- A secured gun safe or similar in a locked shed is suitable. This container may only be used for 1080 baits.
- The baits must remain in the original container with label attached.
- Baits must not be held over for later use unless specified on the “Approval to purchase a 1080 chemical product and conduct a 1080 baiting program”.

Baits that are NOT USED within the period stipulated on the “Approval to purchase a 1080 chemical product and conduct a 1080 baiting program” MUST be destroyed in accordance with label directions and permit conditions.

Transport of 1080 products

Whilst in transport, 1080 products must be kept outside of the cabin or luggage compartment of the vehicle away from any foodstuffs or domestic pets. The 1080 must be stored in such a way that it cannot be removed from the vehicle (e.g. in a locked box that is chained to the vehicle). Transport of 1080 products on the open back of a truck must be in a locked container that is secured to the vehicle by chain and padlock or securely bolted to the vehicle. Containers must be clearly labelled to indicate that they contain 1080.
If at any time the occupant is to leave the vehicle, the 1080 products must remain in a locked container. An MSDS sheet must be carried at all times with poison baits in case of emergency.

**Neighbour Notification**

Notification of neighbours and CLAs on pastoral properties by the holder of the “Approval to purchase a 1080 chemical product and conduct a 1080 baiting program” of the intention to lay baits is *compulsory*. This is to allow appropriate action to be taken to protect livestock, domestic animals and pets.

The minimum information that must be supplied is:

- Name of holder of “Approval to purchase a 1080 chemical product and conduct a 1080 baiting program”
- Name of property or location of baiting
- 1080 baits will be laid on the property
- Pest animal to be baited
- Date of commencement of baiting campaign
- Date of completion of baiting campaign
- Limited follow up baiting if approved will take place until end of the authorisation period and baits will not be laid within 3 km of the property boundary in this circumstance
- Telephone contact details.

The Chemicals Coordinator may also impose additional notification requirements, which must be met. The notification must be given to all neighbours by telephone, fax, email, mail or hand delivered so that a *minimum notice of 5 days* is given before commencement of baiting.

A record must be made of:

- The full name of the person notified
- Property name or location notified
- How the property was notified
- Relevant phone, fax, email or postal details for the method of notification
- Date and time of notification
For CLAs, notification must be conveyed via an interpreter fluent in the local indigenous dialect as well as placing notifications on available notice boards and points of entry to the CLA.

If the baiting campaign does not commence within 5 days of the notified completion date, a new neighbour notification must be made.

**Signage**

Signage is compulsory. Before any baits are laid the holder of the “Approval to purchase a 1080 chemical product and conduct a 1080 baiting program” or their nominee must erect warning signs on the main property entrance and any other entrance to the property and any entrance to a CLA on the property. Signs must also be erected at adjoining roadside reserves, designated roadside rest stops, truck parking bays, fuel stops, tourist attractions and any other public amenity area stating the information listed below.

Signs must be in place for **4 weeks** after final baiting but may be displayed permanently.

A standard sign must be used. Signs must be durable, weather resistant and replaced if not legible, damaged or stolen. The following format is required to be followed (Attachment F):

- Size to be A4 (210 mm x 297 mm) or greater.
- White background.
- Red font with size and type indicated in Attachment.
Safety

The following steps should be closely adhered to when preparing to undertake 1080 baiting:

1. Wear appropriate protective clothing. If it is contaminated, remove and replace with clean clothing. Clothing must be triple rinsed and washed separately from other clothing.

2. Always read the label before using the poison (including the small print). Do not use any pesticides if doubt exists as to its content e.g. label missing.

3. Check that plenty of water is available with soap and towel and that a change of clean clothing is available.

4. Take only sufficient pesticides for the day’s application from the store to the site of application. Never transfer pesticides into other containers, especially drink bottles.

In addition, the following safety requirements should be adhered to:

1. Avoid contamination of the skin, especially the eyes and mouth.

2. Never eat, drink or smoke when mixing or applying pesticides.

3. Always have plenty of water available for washing.

4. Avoid inhalation of dust. Take particular care when working in confined spaces.


6. Provide proper supervision of those applying baits and allow adequate rest periods (although note that individuals that have not completed the training can not undertake baiting activities).

7. The 1080 material safety data sheet (Attachment E) and appropriate first aid instructions should be available at all times.

8. Safety clothes including overalls, hat, nitrile or PVC gloves, boots, and eye protection are to be worn during injection of meat.

9. Persons suffering from ill health – especially respiratory and heart diseases should not be involved in applying pesticides.

10. Never allow children or other unauthorised persons near the baiting operation.
**Bait Laying**

The owner or manager is required to obtain “Approval to purchase a 1080 chemical product and conduct a 1080 baiting program” and a “Permit to take protected wildlife for 1080 pest animal control” before laying baits.

**Ground baiting**

Ground baiting allows baits to be strategically placed to maximise the chances of the target animal encountering them, while at the same time reducing the risks of these baits being taken by non-target animals. The more strategic placement means that fewer baits are required when compared with aerial baiting operations.

The use of bait stations is becoming common. Replacement-baiting in bait stations is a method where baits are replaced as they are removed by pest animals over a period of approximately 10 days to reduce the susceptible of the population to near zero.

- Baits do not need to be buried unless directed to do so on the “Approval to purchase a 1080 chemical product and conduct a 1080 baiting program”.

- Bait replacement can occur within the baiting period provided that the maximum baits allowed to be laid is not exceeded, and the baiting occurs within the duration of the permit.

- Recovery of baits is not required unless indicated on the authorisation.

- When bait recovery is indicated on the authorisation you must mark the sites of bait laying and after 7 days return to this location to collect and destroy anyuntaken baits.

- Baits must not be laid if rain is expected within the baiting period.

In some cases, it is believed that the more baits that are laid, the more effective the baiting will be. This is not the case. Baits that are laid strategically will target the animal that you wish to remove, reduce the impacts on other animals and will be considerably less expensive. For instance, when the ecosystem is in balance, dingoes will effectively control other species, such as wallabies and pigs, which may also become a nuisance.

When too many baits are laid, the dingo population may be reduced to the extent that wallaby and pig populations explode. This will lead to significantly greater problems in the future. Similarly, when baiting for pigs, you will find that one individual will eat many of the baits that are laid. However, a pig only needs to eat one or two baits to be effectively removed. If too many baits are laid in one spot, a single pig will consume all of them, increasing expense unnecessarily.
**Aerial Distribution**

Aerial baiting will only be approved for large-scale damage problems where ground baiting is impossible or impractical in inaccessible areas.

The conditions for aerial baiting are:

- The aircraft must be suited to the purpose and registered to perform the task.
- The aircraft must be crewed by a pilot and an authorised 1080 user (bombardier) who manually distributes the baits. The pilot must not distribute baits.
- The pilot is not required to be an authorised 1080 user if he does not handle 1080 baits.
- An automated bait delivery system that records each bait delivery and does not require manual delivery may also be approved.
- The aircraft must be equipped with a Global Positioning System (GPS) with a facility to input the planned flight-path and to download onto a transportable memory device the flight-path followed and waypoints of each bait drop.
- All drop sites must be accurately recorded in the GPS as waypoints.
- A restrained leak–proof bait hopper and bait distribution mechanism should be used for dispensing of baits.
- The pilot must be licensed by the Civil Aviation Safety Authority (CASA) to perform the task i.e. Fly at low altitude and drop a parcel from an aircraft.
- Aerial baiting **MUST NOT** be undertaken in excessively windy conditions where accuracy of bait dispersal and ability to maintain appropriate altitude and groundspeed may be adversely affected.
- The specified minimum distances that 1080 baits can be laid from habitation, watercourses, boundary fences and roads etc. must be observed.
- Baits must be dropped only along the approved flight path.
- To achieve good baiting precision, the aircraft should travel at a set ground speed and height. Although these factors will be influenced by terrain and weather conditions, the following are given as a general guide:
  - For fixed-wing aircraft – 80 knots and 50 to 100 feet above ground level; and for helicopters – 50 knots and 100 feet.
- The flight path must be recorded by GPS coupled to software capable of storing these positions.
• Flight path information and bait drop waypoints must be downloaded onto a portable memory device and submitted to NRETAS within 2 days of completion of flights.
• Aircraft operators must ensure that their flying operations comply with requirements of CASA.

**Extension to baiting**

If the bait laying campaign cannot be completed within the authorised bait laying period, the Chemicals Coordinator must be notified by fax or email before the baiting campaign period expires. The reason the baits cannot be laid must be advised and alternate dates which will allow completion of the previously approved baiting campaign should be indicated. A response will be forwarded within 10 working days of receipt of this notification. New baiting dates OR reason for rejection of the authorisation will be provided.

If an extension is approved neighbours must be renotified.

Application for an extension must be submitted before the authorised baiting campaign period has expired. Otherwise a new application must be submitted.

**Distance Restrictions**

Unless specifically indicated on the permit, the following distance restrictions must be followed during distribution of 1080 baits in the Northern Territory.

<table>
<thead>
<tr>
<th>Baits must NOT be laid within:</th>
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<tbody>
<tr>
<td>• 150 m of own dwelling (includes stations living quarters).</td>
</tr>
<tr>
<td>• 3 km of a dwelling, (other than own dwelling), or place of habitation (including Community Living Areas (CLAs), roadside reserves, designated roadside rest stops, truck parking bays, fuel stops, tourist attractions) and any other public amenity area.</td>
</tr>
<tr>
<td>• 20 m of a permanent or flowing watercourse.</td>
</tr>
<tr>
<td>• 5 m of a boundary line that does not adjoin a major highway or public road.</td>
</tr>
<tr>
<td>• 500 m of a major highway or 250 m of any other public roadway.</td>
</tr>
</tbody>
</table>

**Carcass removal**

Carcass removal is not compulsory unless indicated on your authorisation to lay 1080 baits. Where possible, carcasses should be removed and destroyed in accordance with label directions to prevent secondary poisoning.
Handling and Application

Wild dogs

1080 baits are an effective means of controlling wild dogs.

- Ideal target areas for bait placement are areas frequented by the target animal and include water points, roads and tracks (bearing in mind the distance restrictions specified in this document).
- Baits should be placed on the ground preferably under bushes to minimize uptake by other wildlife.
- At water points, no more than 25 baits should be laid. These should encircle the water point and also be placed at intervals along pads used by stock for approximately 100 m.

Pigs

Poisoning with 1080 (sodium fluoroacetate or monofluoroacetate) is the most effective method of controlling wild boars. However, because of the rooting foraging behaviour of wild boars this is highly labour intensive, and most effective over smaller localised areas. There are also risks of affecting non-target species using this method.

- 1080 baiting should only be undertaken after 3-4 consecutive nights of free-feeding has taken place.
- At each of the baiting sites, the baits are to be placed in a circle. Baits are to be partially buried and covered with leaf material/mulch to limit their access by raptors.
- The authorised individual is to keep a record of the number of baits laid at each site.
- Under no circumstances are any baits to be laid at a site other than at a prepared baiting site as above at which pigs are currently active.
- Any pig carcasses detected during the baiting period and for up to 28 days following the cessation of baiting are to be disposed of by burying in a pit according to label directions to prevent access by scavengers.
**Rabbits**

Poisoning can be effective in controlling rabbits but only over small areas. Several ‘free-feeds’ without poison are followed by one 1080 baiting event. Poisoning should be timed to occur when rabbits are least territorial and when other foods are scarce (summer). Care must always be exercised in the use of poisons, to avoid potential impacts on wildlife, livestock and other domestic animals. The use of coloured dyes minimises the uptake by birds and, in areas with larger macropods, a bait station (cage excluding species larger than rabbits) can be used. This method is useful in reducing the rabbit population peaks. It is suited to cleared land adjoining a bushland area.

- Free-feeding should be conducted on 2-3 occasions (usually 3-4 days apart) prior to undertaking 1080 poisoning.
- Oats and pellet baits are most effective; however carrots cut to 2-5 grams can also be used for rabbits.
- Baits are best placed in the evening, as most feeding occurs during the night.
- Unconsumed baits and rabbit carcasses should be collected and destroyed.

**Foxes**

1080 baiting can be a very effective means of controlling foxes.

- The recommended bait density is 5 baits per 100 hectares. Baits should be placed a minimum distance of 200 metres in areas where foxes are known to inhabit, such as along tracks, fence lines, and watercourses.
- Baits should be buried 10-20 mm below the soil surface to reduce the risk of poisoning non-target animals.
- Leave baits for approximately 10 days, checking them every 2 days to assess removal rates. Replace baits that have been taken until baits are no longer removed.

**Manufactured baits**

Pigout®, Foxoff®, Doggone®, and Rabbait® are commercially manufactured baits. These products are very dangerous if swallowed. At all times follow the safety directions on the registered product label. When opening the container and using baits wear elbow length PVC gloves. If product gets on skin immediately wash area with soap and water. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each days use wash gloves and contaminated clothing.
<table>
<thead>
<tr>
<th>Product name</th>
<th>Product name</th>
<th>Lethal dose (mg) (LD$_{50}$)</th>
<th>Product dose (mg)</th>
<th>No. of baits required per animal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pigout®</td>
<td>Pigs</td>
<td>56.1</td>
<td>72</td>
<td>1</td>
</tr>
<tr>
<td>Foxoff®</td>
<td>Foxes</td>
<td>0.78</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Doggone®</td>
<td>Dogs</td>
<td>1.6</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Rabbait®</td>
<td>Rabbits</td>
<td>0.64</td>
<td></td>
<td>Not currently approved in NT</td>
</tr>
</tbody>
</table>

**Clean-up**

Following 1080 baiting, it is important to:

1. Return unused baits to the storage facility
2. Safely dispose of all empty containers
3. Clean equipment and return to the storage facility
4. Remove and clean protective clothing (a minimum of triple rinse is required)
5. Wash well and put on clean clothing
6. Keep a record of the use of baits in accordance with permits and authorisation requirements.
Requirements of individuals authorised to possess and use 1080

The Northern Territory Government promotes the minimum use of pesticides. Our role is to ensure that pesticide use does not cause injury to human health, the environment or present a risk to trade. Using pesticides correctly protects your health, your family, your livelihood, the environment and the food you eat.

Schedule 7 poisons have a high potential for causing harm at low exposure. They are only available to authorised users that have the skills to handle them safely.

The conditions of use described below are mandatory. It is an offence to use a Schedule 7 chemical product either without a valid authorisation or contrary to the conditions of the authorisation. The penalties for misuse may be high.

About your Authorisation

Your individual ‘Authorisation to use 1080’ will be valid for 5 years unless otherwise specified. Keep it in a safe place, remember that it is your authority to possess and use a poison. You MUST show your authorisation to your supplier every time that you make a purchase. The supplier will make an entry in the Poison Register and ask you to sign the entry. You will be required to show the approval (Attachment C) as well as your drivers licence or photo ID.

A new “Approval to purchase a 1080 chemical product and conduct a 1080 baiting program” and “Permit to take protected wildlife for 1080 pest animal control” will be required for every baiting session. It is valid for a maximum of one month.

Possession and Use of Schedule 7 Pesticide

You must use the pesticide only for the purpose, and only in accordance with ‘Directions for use of 1080 for pest animal control’, specified in the authorisation document. Read your authorisation carefully to ensure that you comply.

Schedule 7 pesticides must not be possessed, stored or used at any address other than that stated in the authorisation document.

All pesticides are subject to ‘registration conditions’. These conditions are legal requirements with which an authorised person must comply. Registration conditions are written on the pesticide container label and give details about the correct use, including host / situation, pests and the application rates.
Record Keeping

It is a legal requirement that records are made of use of 1080 baits and kept for 2 years (See Attachment F).

The baiting records need to be made by the Authorised 1080 User within 5 days of laying of baits. Records are to be forwarded to NRETAS by the holder of the permit to interfere with wildlife.

The record will include:

- Full name of 1080 baits that were used
- Name of licensed S7 retailer purchased from
- Date of Purchase
- Purchase transported by (name of authorised user)
- When / how / which neighbors were notified
- When signs were erected
- Where signs were erected
- Dates baits were laid
- Number of baits laid
- Location where laid
- Number of left over baits destroyed
- Number of non-target and target fatalities observed.

Incident Reporting

Any incident where it is suspected that non-target animals have been poisoned by 1080 must be reported immediately by phone / email / fax to the NRETAS Permits Officer.

Incidents should also be reported to the APVMA Adverse Experience Reporting Program (AERP). Forms are available from the APVMA website www.apvama.gov.au

If any baits are suspected to have been stolen, DRDPIFR and NT Police must be notified immediately by phone/fax/ email.

Review

This document will be reviewed every 5 years or as required by the Chemicals Coordinator.
First Aid

Humans
If poisoning occurs, contact the Poisons Information Centre (Ph. 131 126) or a local doctor. Refer to the MSDS sheet (Attachment E).

Domestic Animals
Precautions should be taken to prevent domestic animals from coming into contact with poison baits. Tie your animals up while baits are being prepared and do not lay baits within normal roaming distance. Only early action will save a poisoned animal. If possible, the animal should be made to vomit immediately. This can be done by placing one or two crystals of washing soda or half a teaspoon of salt down the animal’s throat. The animal should then be taken to a vet immediately.
Contacts

Department of Regional Development, Primary Industry, Fisheries and Resources
Biosecurity and Product Integrity
Ph. (08) 8999 2016
Ph. (08) 8999 2272
Website: http://www.nt.gov.au/d/Primary_Industry/

Permits (NRETAS)
Ph. (08) 8999 4795 or (08) 8999 4814
Fax: (+61 8) 8999 4524
Email: pwpermits.nreta@nt.gov.au

Parks and Wildlife (NRETAS)
Darwin: (08) 8995 5008
Katherine: (08) 8973 8860
Alice Springs: (08) 8951 8283
Steps required to purchase and use commercially prepared 1080 baits

You, as the landholder, lessee or operator of the farming enterprise will be making the application and be ultimately responsible for the baiting operation.

You need to be sure you have trained personnel in place before you can apply.

**Step 1:** Personnel who have received training and have a current ‘1080 User Authorisation’ as issued by Chemical Services of DRDPIFR will be the only people permitted to purchase and to lay the baits. Get someone trained and accredited now before you need to apply. This training takes time and accreditation lasts up to 5 years.

**Step 2:** Complete an “Approval to purchase a 1080 chemical product and conduct a 1080 baiting program” and forward completed form to Chemical Services of DRDPIFR at Berrimah Farm (Fax: 08 8999 2111).

**Step 3:** NRETAS Permits section assesses Part A of the application and if approved issues a ‘Permit to Interfere with Wildlife’ and nominates the number of baits issued. DRDPIFR Chemical Services assesses Part B and if approved issues the ‘Approval to Purchase 1080 Chemical Product and Conduct a 1080 Baiting Program’.

If both Part A and Part B are approved DRDPIFR forwards the approval and the permit to the applicant. This process can be expected to take not more than 10 working days to complete if the application is in order.

**Step 4:** Authorised and nominated person obtains the baits from a registered retailer. The ‘Approval to Purchase 1080 Product and Conduct 1080 Baiting Program’ plus the ‘1080 User Authorisation’ of the person collecting baits will be required here.

**Step 5:** Secure storage. As landholder and applicant you must provide for secure storage of baits. At all stages of the process the person in possession of the baits is responsible for their secure storage and use.

**Step 6:** Persons with a current ‘1080 User Authorisation’ undertake the baiting operation as per the conditions laid out and complete a record.

**Step 7:** Records of all baiting and bait purchases are to be retained by the landholder / applicant for 2 years. Baiting returns to be sent to NRETAS within 7 days of baiting.
APPLICATION FOR AUTHORIZATION TO USE A RESTRICTED CHEMICAL PRODUCT (RCP) CONTAINING SODIUM FLUOROACETATE (1080)

TO: Chemicals Coordinator
Department of Regional development, Primary Industry, Fisheries and Resources
PO Box 3000
Darwin NT 0801

I hereby apply under the provisions of Agricultural and Veterinary Chemicals (Control of Use) Regulations, Part 3 Possession and use of restricted chemical products, Regulation 16A Application for authorisation and Part 4 Possession and use of S7 chemical products (S7 authorisations) Regulation 17 Application for authorisation, to be able to possess and use a S7 RCP containing 1080 for the purpose of laying 1080 baits in accordance to an “Authorisation to lay 1080 baits”.

Note: This authorisation allows the handling of 1080 products in accord with an “Authority to Purchase 1080 Chemical Product and Conduct 1080 Baiting”

Incomplete applications will not be processed until the required information is supplied.

PLEASE PRINT ALL ANSWERS TO THE FOLLOWING

PART A: THE APPLICANT

<table>
<thead>
<tr>
<th>Name (print in full)</th>
<th>Date of Birth</th>
<th>Telephone: (h)</th>
<th>(w)</th>
<th>(fax)</th>
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Mobile Number:………………………………………………… Email Address:…………………………………………………

Residential Address:……………………………………………………………………………….…………………………………….

Postal Address:…………………………………………………………………………………………………………………………

Have you previously held an S7 or RCP authorisation Yes No Authorisation No:………………

At what Address:…………………………………………………………………………………………………………………………

Have you been convicted of an offence against this or related legislation in the Territory or another State? Yes No
If so, provide details: .............................................................................................................................
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Do you have ChemCert or SMARTtrain level 3 accreditation or equivalent? Yes No

Note: If your accreditation has expired it must be renewed

If yes please attach copy of both sides of your accreditation card

Other relevant equivalent qualifications..................................................................................................
..........................................................................................................................................................
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Do you have a certificate of attainment for the 1080 User training course for the handling and use of registered chemical products containing sodium fluoroacetate? Yes No

Certificate No.............................................................. Expiry Date..........................................................

PART B: DECLARATION

Read carefully before signing and dating

I acknowledge that I have been given a copy of “Directions for Use of 1080 for Pest Animal Control.”

I acknowledge that I must comply with all of the conditions and requirements specified in this document and the “1080 User Authorisation” and in the event of any departure there from, I am liable to prosecution.

If I am authorised to use RCPs containing 1080, I declare that:

a. I shall not possess or use 1080 product on any property other than in accordance with to the “Authority to Purchase 1080 Chemical Product and Conduct 1080 Baiting”.

b. I shall not supply 1080 product to any other person other than those listed on the authorisation to lay 1080 baits

c. Unused baits must be disposed of in accordance with the label directions of the product that is used.

d. I shall dispose of all empty pesticide containers in accordance with the instructions on the registered product label.

I declare that all of the above information is true and correct.

Signature of applicant:.............................................................. Date:................/............./20......

Office Use Only
Approval to purchase a 1080 chemical product and conduct a 1080 baiting program

The application form is to be completed by landholders, occupiers and property managers who wish to undertake feral pig, fox, rabbit or wild dog control using 1080 baits on land under their management.

Approval enables the property manager to organise purchase and to possess specified 1080 products and for an approved baiting program to be conducted on his property.

The landholder and applicant must provide for secure storage of baits. At all stages of the process the person in possession of the baits is responsible for their secure storage and use.

An ‘Approval to purchase a 1080 chemical product and conduct a 1080 baiting program’ does not authorise the holder to handle the 1080 baits unless he is also the holder of a ‘1080 User Authorisation’.

Conditions of the NRETAS Permit to Interfere with Wildlife (see Part A below) must be followed in the baiting program.

The ‘Approval’ to lay baits will be valid for a specified period. Baiting outside of this period requires reapplication.

Incomplete applications will not be processed until the required information is supplied.

Complete Parts A and B of this Application and send to:

The Chemicals Coordinator
GPO Box 3000
Darwin NT 0801
Fax 08 8999 2111

For further information contact the DRDPIF Chemical Advisor on Tel 89992016

PART A

Permit to Interfere with Wildlife Using 1080 for Pest Animal Control.


If NRETAS permit application is rejected then DRDPIF will not process Part B and the application for an authorisation to lay 1080 baits will be rejected.
**PART B**

**Application for Authorisation to lay 1080 baits**

<table>
<thead>
<tr>
<th>Surname</th>
<th>Given names</th>
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<table>
<thead>
<tr>
<th>Status</th>
<th>Property Owner</th>
<th>Property Manager</th>
<th>Property Occupier</th>
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<tr>
<th>Residential Address</th>
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<tr>
<th>Property Name and Location</th>
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<thead>
<tr>
<th>Business</th>
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<tr>
<th>Fax:</th>
<th>Mobile</th>
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</table>

**Email:**

List below all persons who will be handling [purchase, store or lay] the 1080 baits. Persons accepting and handling 1080 baits must have a current “1080 User Authorisation”. If you as the applicant will be handling the baits place your name on this list.

<table>
<thead>
<tr>
<th>Surname</th>
<th>Given Names</th>
<th>1080 User Authorisation Number</th>
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Applicant’s signature: __________________________ Date: / /
ATTACHMENT D:

Application for a permit to take protected wildlife for 1080 pest animal control

DEPARTMENT OF
NATURAL RESOURCES, ENVIRONMENT, THE ARTS AND SPORT

Permits Telephone: 61 08 8999 4795
Ground Floor Facsimile: 61 08 8999 4524
Goyder Centre, Palmerston PO Box 496
PALMERSTON NT 0831

APPLICATION FOR A PERMIT TO TAKE PROTECTED WILDLIFE
1080 PEST ANIMAL CONTROL
Territory Parks and Wildlife Conservation Act

PLEASE NOTE THE FOLLOWING:
- Your application will not be accepted unless ALL information required is provided when the application is lodged.
- Please print clearly, as processing of your application will be delayed if information supplied is illegible.
- A permit will not be processed if the required returns have not been received for previous permits.

APPLICANT DETAILS
The permit applicant must be the Landowner, Manager or Occupier of the property.

<table>
<thead>
<tr>
<th>Surname</th>
<th>Given names</th>
<th>Date of Birth</th>
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<tr>
<th>Company Name</th>
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<tr>
<th>Residential Address:</th>
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<table>
<thead>
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<th>Business</th>
<th>Home</th>
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<tr>
<th>Fax:</th>
<th>Mobile:</th>
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<table>
<thead>
<tr>
<th>Email:</th>
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</table>

1. Have you previously held a Parks and Wildlife Commission permit? □ Yes  □ No
   ➢ If 'yes', please specify most recent permit number:

2. Have you ever applied to any other State or Federal Authority for a similar permit? □ Yes  □ No
   ➢ If 'yes', please provide details on an attached sheet.

Within the last five years have you been found guilty of a wildlife offence, an offence that otherwise relates to wildlife, including similar interstate legislation, or had a permit cancelled under the Territory Parks and Wildlife Conservation Act?  Yes  □  No  □
If YES, provide details: ____________________________________________________________

OFFICE USE ONLY

<table>
<thead>
<tr>
<th>Permit Number:</th>
<th>Date Received:</th>
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<tr>
<th>Date of Issue:</th>
<th>Previous Returns Submitted: Yes / No</th>
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<tr>
<td>NOMINEE No. 1 SIGNATURE</td>
<td>NOMINEE No. 2 SIGNATURE</td>
</tr>
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<td>-------------------------</td>
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</tr>
<tr>
<td>Surname</td>
<td>Given names</td>
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<tr>
<td>Residential Address:</td>
<td>Postal Address:</td>
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<tr>
<td>Business:</td>
<td>Mobile:</td>
</tr>
<tr>
<td>Email:</td>
<td>1080 User Authorisation No.</td>
</tr>
</tbody>
</table>

Within the last five years have you been found guilty of a wildlife offence, an offence that otherwise relates to wildlife, including similar interstate legislation, or had a permit cancelled under the Territory Parks and Wildlife Conservation Act? **Yes ☐ No ☐**

If YES, provide details: __________________________________________________________

Declaration
I do solemnly and sincerely declare that the details given above are true in every particular and I make this solemn declaration by virtue of the Oaths Act. (Note: There are heavy penalties for false declarations)

<table>
<thead>
<tr>
<th>Surname</th>
<th>Given names</th>
<th>Date of Birth (dd/mm/yyyy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential Address:</td>
<td>Postal Address:</td>
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</tr>
<tr>
<td>Business:</td>
<td>Mobile:</td>
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<td>Email:</td>
<td>1080 User Authorisation No.</td>
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</table>

Within the last five years have you been found guilty of a wildlife offence, an offence that otherwise relates to wildlife, including similar interstate legislation, or had a permit cancelled under the Territory Parks and Wildlife Conservation Act? **Yes ☐ No ☐**

If YES, provide details: __________________________________________________________

Declaration
I do solemnly and sincerely declare that the details given above are true in every particular and I make this solemn declaration by virtue of the Oaths Act. (Note: There are heavy penalties for false declarations)

<table>
<thead>
<tr>
<th>Surname</th>
<th>Given names</th>
<th>Date of Birth (dd/mm/yyyy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential Address:</td>
<td>Postal Address:</td>
<td></td>
</tr>
<tr>
<td>Business:</td>
<td>Mobile:</td>
<td></td>
</tr>
<tr>
<td>Email:</td>
<td>1080 User Authorisation No.</td>
<td></td>
</tr>
</tbody>
</table>

Within the last five years have you been found guilty of a wildlife offence, an offence that otherwise relates to wildlife, including similar interstate legislation, or had a permit cancelled under the Territory Parks and Wildlife Conservation Act? **Yes ☐ No ☐**

If YES, provide details: __________________________________________________________

Declaration
I do solemnly and sincerely declare that the details given above are true in every particular and I make this solemn declaration by virtue of the Oaths Act. (Note: There are heavy penalties for false declarations)
1. PEST ANIMAL FOR WHICH A PERMIT IS REQUIRED

Please tick the pest animal for which control is required and provide information on the damage caused by the pest species and the estimated numbers.

<table>
<thead>
<tr>
<th>Tick</th>
<th>Common Name</th>
<th>Justification for undertaking a baiting program</th>
<th>Estimated numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wild dog</td>
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<tr>
<td></td>
<td>Feral pig</td>
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<td></td>
<td>Fox</td>
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<td>Rabbit</td>
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<td></td>
<td>Other</td>
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</tbody>
</table>

2. LOCATION FOR WHICH PERMIT IS REQUIRED: Provide a map with the following information.
- Specify Shire, Hundred, Section No., Lot No., (or grid reference) and Property Name.
- Attach a scaled map showing points listed below on or adjoining the property with distances from proposed baited area.

<table>
<thead>
<tr>
<th>REQUIRED FEATURE</th>
<th>check</th>
<th>REQUIRED FEATURE</th>
<th>check</th>
</tr>
</thead>
<tbody>
<tr>
<td>Property Boundaries</td>
<td></td>
<td>Watering points and/or dams</td>
<td></td>
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<tr>
<td>All dwellings (own and neighbouring)</td>
<td></td>
<td>Areas previously baited</td>
<td></td>
</tr>
<tr>
<td>All roads and access tracks (inc public access point to property)</td>
<td></td>
<td>Area of pest problem</td>
<td></td>
</tr>
<tr>
<td>Water bodies and watercourses</td>
<td></td>
<td>Proposed location of 1080 warning signs</td>
<td></td>
</tr>
<tr>
<td>Community living areas</td>
<td></td>
<td>Areas to be baited</td>
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<tr>
<td>Recreational sites, rest areas</td>
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</tbody>
</table>

3. OUTLINE PREVIOUS EFFORTS UNDERTAKEN TO MANAGE PEST PROBLEMS (IN THE LAST 12 MONTHS)

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Updated 26th November 2008
4. PROPOSED PERIOD OF BAITING

Indicate the period of proposed baiting.

__________/_________/_______ to ________/_______/_________

If you are unable to meet all the requirements for use of 1080 within the approved period you will need to advise NRETAS immediately by fax or email with copy to DRDPIFR Chemicals Coordinator. You will receive within 10 working days a new approved period OR reason for rejection of the permit. Baiting outside the above period is not allowed. Only one permit extension will be granted.

5. ADDITIONAL DETAILS

| Indicate property size in km² or hectares = |
| Number of dams and watering points on property = |
| Number of baits requested = |
| Method of bait laying (please circle one) GROUND BAITING / AERIAL BAITING |

6. REPORTING & INCIDENTS

Permit conditions will require you to immediately report by telephone, fax or email any incident or discovery of non-target or potential non-target wildlife casualties to NRETAS Permits Office.

DECLARATION

I do solemnly and sincerely declare that the details given in this application are true in every particular and I make this solemn declaration by virtue of the Oaths Act. (Note: There are heavy penalties for false declarations)

Applicant’s signature: _________________________________ Date: / / 

- Section 114 of the Territory Parks and Wildlife Conservation Act provides for a penalty of up to two (2) years imprisonment for a person, or up to $50,000 for a body corporate, making a false or misleading statement in connection with a matter under this Act.
- Parks and Wildlife adheres to the Department of Natural Resources, Environment, The Arts and Sport Privacy Statement, which can be found at www.nt.gov.au/nretas
ATTACHMENT E:

Material Data Safety Sheet for the use of 1080

Material Safety Data Sheet: ACTA 1080 Concentrate
Date of Issue: 1 June 2008

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: ACTA 1080 Concentrate
Recommended Use: For the preparation of 1080 baits to control feral pigs, foxes, rabbits and wild dogs
Distance restrictions apply as per state/territory government legislation.
Only to be used in accordance with the label and any state/territory instructions for 1080 products.

Note: This product is only made available to approved purchasers and is not for general use by unqualified persons and must not be made available to unapproved users. This is a restricted chemical substance and must be stored securely.

Supplier Details
Company: Animal Control Technologies (Australia) Pty Ltd
Address: 46-50 Freight Drive Somerton Vic 3062, Australia
Telephone number: 03 9308 9688 (Monday to Friday, 8:00a.m. – 5:00p.m. EST)
Emergency telephone number: Poisons Information Centre 13 11 26 (24 hours)

2. HAZARDS IDENTIFICATION


Risk phrase(s): Toxic by inhalation, in contact with skin and if swallowed.
Safety phrase(s): Keep locked up and out of reach of children. Keep away from food, drink and animal feeding stuffs. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (Show the label where possible). Avoid release into the environment, refer to product label instructions.

Poisons schedule number: S7

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients
Chemical Name: Common Name: CAS Number: Proportion (w/w):
Sodium fluoroacetate "1080" 62-74-8 30g/kg
Other ingredients not determined to be hazardous N/A up to 100%
4. FIRST AID MEASURES

First aid: Speed in treatment is essential. If poisoning occurs, contact a doctor or Poisons Information Centre. Have this MSDS or the label with you.

Swallowed: Seek immediate medical assistance.
Eye: If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
Skin: If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water. Remove from contaminated area. Apply artificial respiration if not breathing.
Inhaled: Inhalation risk is minimal with the product which is an aqueous concentrate.

Advice to doctor: The 1080 bait manufacturing concentrate contains 3% w/w (30g/kg) sodium fluoroacetate (‘1080’) and is used as a concentrate for the manufacture of baits for control of pest animals in accordance with APVMA approved product label.

It is important to ascertain the route of exposure and the quantity exposed to. Sodium fluoroacetate is readily absorbed by the oral route and acts after metabolic conversion to fluoroacetate by blocking enzymes in the tricarboxylic acid cycle inhibiting metabolic energy production. Organs with high energy requirements such as the heart, diaphragm and brain are most affected. Accumulation of citrate and disturbances in calcium ion levels can lead to symptoms. Early symptoms may include nausea, vomiting, stomach pains, tingling of the nose, numbness of the face, nervousness. More severe symptoms include, convulsions, Laboured breathing, excitability, hallucinations and heart attack. Treat symptomatically and supportively. Monitor for electrolyte abnormalities and metabolic acidosis. If caught early induce vomiting, if not emesis is contraindicated because of the potential for arrhythmia and convulsions. Consult poisons control for most up to date information. Sodium fluoroacetate is not readily absorbed through skin and is very water soluble prompt washing in soapy water will minimise risk after accidental skin exposure.

5. FIRE FIGHTING MEASURES

Fire & explosion hazards: The aqueous concentrate is not flammable and will not auto-ignite.
Suitable extinguishing media: Not applicable as non combustible
Hazard from combustion: None applicable
Special protective equipment: Respirator, filter A/P

6. ACCIDENTAL RELEASE MEASURES

Spills and Disposal: Sodium fluoroacetate is water soluble. While wearing elbow-length PVC gloves, mop-up excess liquid using absorbent sponge or towel. Triple rinse and bury rinsate and empty containers in a local authority landfill. If no landfill is available, bury the containers below 0.5m in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers should not be burnt. Do NOT re-use containers for any other purpose. Sodium fluoroacetate is readily degraded by common soil bacteria and moulds. Wash any contaminated areas with soapy water and bury rinsate from washed areas.
7. HANDLING AND STORAGE

Precautions for safe handling: To avoid risks for man and environment the instructions for use are to be followed. Avoid all contact with the product and wear protective clothing and gloves.

Conditions for safe storage: Safe storage is the responsibility of all persons who are supplied with this poison. The product must be stored in the closed, original container in a dry, cool, well ventilated area out of direct sunlight. Store in a locked room away from children, animals, food, feedstuffs, seed and fertilisers at all times, except when required for use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards: Exposure standards allocated for sodium fluoroacetate powder are 0.05mg/m³ Time weighted average. Short Term Exposure Levels are 0.15mg/m³. Avoid direct contact with skin. There is no dust associated with this liquid concentrate.

Biological limit values: No biological limit allocated.

Engineering controls: The product formulation dilutes the concentration of sodium fluoroacetate and reduces the risk of handling sodium fluoroacetate powder. However this product remains extremely poisonous.

Personal protective equipment: When opening the container and using the product wear cotton overalls buttoned to the neck and wrists, a washable hat and elbow-length rubber gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark blue liquid.
Vapour pressure: Not applicable (not volatile on heating)
Boiling point: 100°C
Solubility in water: 100%
Specific gravity: 1.05g/mL

10. STABILITY AND REACTIVITY

Chemical stability: Stable for extended periods under normal storage and handling conditions.
Incompatible materials: None applicable
Hazardous decomposition products: No specific data
Hazardous reactions: No specific data
11. TOXICOLOGICAL INFORMATION

Acute toxicity: Based on the lowest known lethal dose for humans (0.71 mg/kg bw), an 80 kg person would have to consume approximately 1.89g or 1.8ml of product to receive a lethal dose. Lower doses may still cause toxic effects. There is usually period of latency between poisoning and onset of symptoms of between 30 minutes and 3 hours. Neurological effects include convulsion, respiratory depression, tremulousness, hallucinations and coma. Cardiac effects include hypertension then hypotension, arrhythmias, ventricular fibrillation and cardiac failure.

Acute:
Swallowed: Very poisonous if swallowed. Lethal doses can cause cardiac arrest.
Eye: Avoid contact with eyes. Effects not known.
Skin: Avoid contact with skin. Studies with rabbits have shown that 1080 is poorly absorbed through the skin.
Inhaled: Not applicable to this formulation. There is no inhalation or vapour risk with the liquid product under normal circumstances.
Chronic: Long term exposure at high doses may lead to cardiac and or testicular damage. Studies into the effects of chronic (90 day) exposure in rats have found damage to the heart, and in males the testis, at a dose of 0.25mg/kg/day. Though some of this damage may be reversible over time when exposure is removed.

12. ECOLOGICAL INFORMATION

Do not contaminate streams, rivers or waterways with the chemical or used containers. Information on non-target animal distribution, conservation status, habitat preference, diet, tolerance to 1080, body weight and size of home range can be used to reduce poisoning risks posed by baiting programs. Time baiting programs when non-target species are least active or least susceptible. Follow approved label directions to minimise risks to non-target animals.

Ecotoxicity: Sodium fluoroacetate is toxic to fish but is rapidly diluted in water.
Sodium fluoroacetate is readily degraded by common soil bacteria and moulds once baits become wet in soil.

Persistence and degradability: The product is biologically degradable and will not accumulate in soil or water.

13. DISPOSAL CONSIDERATIONS

Triple rinse and bury rinsate and empty containers in a local authority landfill. If no landfill is available, bury the containers below 0.5m in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers should not be burnt. Do NOT re-use containers for any other purpose.

14. TRANSPORT INFORMATION

This product is classified as dangerous goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (6th Edition).

<table>
<thead>
<tr>
<th>UN number:</th>
<th>2810</th>
<th>UN proper shipping name:</th>
<th>Toxic liquid, organic N.O.S. (3% sodium fluoroacetate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dangerous Goods Class:</td>
<td>6.1</td>
<td>Subsidiary Risk:</td>
<td>None</td>
</tr>
<tr>
<td>Packing group:</td>
<td>II</td>
<td>Hazchem code:</td>
<td>2X</td>
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</tbody>
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ANIMAL CONTROL TECHNOLOGIES Pty Ltd

Page 4 of 5
15. REGULATORY INFORMATION

Poenis schedule number: S7

16. OTHER INFORMATION

Date of Preparation of this MSDS: 1 June 2008

This Material Safety Data Sheet (MSDS) has been developed using the following references:
World Health Organisation (2006) WHO-UNEP Sound management of pesticides and diagnosis and
treatment of pesticide poisoning.
Bruère, A.N., Cooper, B.S. and Dillon, E.A. (1990) Veterinary Clinical Toxicology, Continuing Education,
Palmerston North, New Zealand.
Eason, C. and Turck, P. (2002) A 90-day Toxicological evaluation of compound 1080 (Sodium

The physical values and properties described in this MSDS are typical values based on scientific literature and
material produced to date, and are believed to be reliable. Animal Control Technologies provides no warranties,
either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained
herein. The information is supplied upon the condition that the persons receiving information will make their
own determination as to the suitability for their purposes prior to use of this product. Due care should be taken
to ensure that the use of this product and its disposal is in compliance with all relevant Federal, State and Local
Government regulations.

End of MSDS
ATTACHMENT F:

Example of a warning sign

WARNING
1080 POISON BAITS LAID HERE
DOMESTIC DOGS, PETS OR ANIMALS MAY BE AFFECTED IF THEY EAT BAITS OR DEAD ANIMALS
PROTECT BY RESTRAINING OR MUZZLING

BAITS LAID FOR XXXX (E.G. WILD DOGS)
BAITS LAID ON XX/XX/XXXX AND MAY BE PRESENT AT ANY TIME FROM THIS DATE
CONTACT TEL 08 XXXX XXXX
ATTACHMENT G:

Record keeping form for 1080 baiting over two (2) year period

1080 BAITING OPERATIONS DIARY

Meets Recording Requirements for 1080 baiting operations
DRDPIFR and NRETAS

Edition 1
21/11/08

1080 Baiting Operations Diary

This diary is supplied as an aid to assist in recording data required as part of your obligations when undertaking a 1080 Baiting Program.

The information you are required to record is contained in the following documents:

- Commercial Product Label - Directions for use.
- Directions For Use of 1080 for Pest Animal Control (Parts 12 and 13) – Department of Regional Development, Primary Industries, Fisheries and Resources (DRDPIFR).
- Approval to purchase a 1080 product and conduct a baiting program – DRDPIFR.
- Permit to Interfere with Wildlife – Department of Natural Resources, Environment, The Arts and Sport (NRETAS).
- Agricultural and Veterinary Chemicals [Control of Use] Act 2004 and Regulations.

In addition to the records you will record in this diary you will be required to furnish a return to Parks and Wildlife separately.

If you require further information contact:

- Diary and Chemical Issues
  Chemical Services DRDPIFR - Berrimah
  Phone: 08 8999 2344
  Fax: 08 8999 2111
  Geoff Walduck: 08 8999 2016  Mob: 0448 762 595

- Diary and Baiting or Wildlife Issues
  Permits Office NRETAS - Palmerston
  Phone: 08 8999 4795
  Fax: 08 8999 4524
  e-mail: pwpermits.nretas@nt.gov.au
Property Details

Property Name: ..........................
Location: ..........................
Postal Address: ..........................
PIC Code: .............
Manager: ..........................

Details of Persons Authorised to Handle 1080 Baits

<table>
<thead>
<tr>
<th>Full Name (Print)</th>
<th>1080 User Authorisation Number</th>
<th>Signature</th>
<th>Notes</th>
</tr>
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<tbody>
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Details of Neighbours to be Advised of Baiting

<table>
<thead>
<tr>
<th>Property</th>
<th>Contact Details</th>
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</table>
# Record of Non Target Animal Deaths

<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>Description and number of animals</th>
<th>Person Reporting</th>
<th>NRETAS Current Permit No.</th>
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This record to be forwarded to NRETAS - Fax 08 8999 4524 As soon as possible after reports of deaths.

---

## List of All 1080 Bait Purchases

<table>
<thead>
<tr>
<th>Date</th>
<th>Brand of Baits</th>
<th>Number of Baits</th>
<th>Purchased From</th>
<th>Collected by</th>
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### 1080 Baiting Operations Record

Property Identification:

<table>
<thead>
<tr>
<th>Date</th>
<th>Action</th>
<th>Pest</th>
<th>Bait Brand</th>
<th>Number of Baits</th>
<th>Approval No. Purchase and Bait</th>
<th>Action By [Print Name]</th>
<th>Authorization to Use Number</th>
<th>Balance Baits on hand</th>
<th>Sign</th>
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<td>Pest</td>
<td>Bait Brand</td>
<td>Number of Bait</td>
<td>Approval No. Purchase and Bait</td>
<td>Action By [Print Name]</td>
<td>Authorisation to Use Number</td>
<td>Balance of Baits on hand</td>
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### 1080 Baiting Operations Record

**Property Identification:**

Records to be kept for 2 years

<table>
<thead>
<tr>
<th>Date</th>
<th>Action</th>
<th>Pest</th>
<th>Bait Brand</th>
<th>Number of Baits</th>
<th>Approval No of Purchase and Bait</th>
<th>Action By [Print Name]</th>
<th>Authorisation to Use Number</th>
<th>Balance Bait on hand</th>
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### 1080 Baiting Operations Record

**Property Identification:**

Records to be kept for 2 years

<table>
<thead>
<tr>
<th>Date</th>
<th>Action</th>
<th>Pest</th>
<th>Bait Brand</th>
<th>Number of Bait</th>
<th>Approval No. Purchase and Bait</th>
<th>Action By [Print Name]</th>
<th>Authorisation to Use Number</th>
<th>Balance of Bait in hand</th>
<th>Sign</th>
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**Example of how to fill in records sheets**
## 1080 Baiting Operation Record

**Property Identification:** Mountain View Station  
**Records to be kept for 2 years**

<table>
<thead>
<tr>
<th>Date</th>
<th>Action</th>
<th>Pest</th>
<th>Brand</th>
<th>Number</th>
<th>Action Authorisation</th>
<th>Sign</th>
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<td>21-Nov-08</td>
<td>Purchase</td>
<td>Dog</td>
<td>Doggone</td>
<td>500</td>
<td>Ted Smith</td>
<td>4567</td>
</tr>
<tr>
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<td>Trans/Store</td>
<td>Dog</td>
<td>Doggone</td>
<td>500</td>
<td>Ted Smith</td>
<td>4567</td>
</tr>
<tr>
<td>25-Nov-08</td>
<td>Notify+Signs</td>
<td>Dog</td>
<td>Doggone</td>
<td></td>
<td>Alan Jones</td>
<td>n/a</td>
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<td>27-Nov-08</td>
<td>Lay baits</td>
<td>Dog</td>
<td>Doggone</td>
<td>300</td>
<td>Alan Jones</td>
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<td>22-Jan-09</td>
<td>Lay baits</td>
<td>Dog</td>
<td>Doggone</td>
<td>10</td>
<td>Alan Jones</td>
<td>3456</td>
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<td>Report</td>
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<td>Ted Smith</td>
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<tr>
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<td>Wildlife Return to NRETAS</td>
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<td>Ted Smith</td>
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<td>Pigout</td>
<td>1000</td>
<td>Ted Smith</td>
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<td>Trans</td>
<td>Pig</td>
<td>Pigout</td>
<td>1000</td>
<td>Ted Smith</td>
<td>A4567</td>
</tr>
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<td>05-Apr-08</td>
<td>Store</td>
<td>Pig</td>
<td>Pigout</td>
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<td>Ron Bacon</td>
<td>A4321</td>
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<td>Notify/Signs</td>
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<td>Ted Smith</td>
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<td>A4557</td>
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<td>Pigout</td>
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<td>Bill Tusk</td>
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<td>24-May-08</td>
<td>Wildlife return to NRETAS</td>
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<td></td>
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<td>Ted Smith</td>
<td>Nil</td>
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</tbody>
</table>

### Diagram

![Map of baiting locations and dates](image.png)