ACT Government
Transport Canberra and City Services

FREEDOM OF INFORMATION COVERSHEET

The following information is provided pursuant to section 28 of the *Freedom of Information Act 2016*.

FOI reference: TCCSFOI 19-049

Information to be published	Status
1. Access application	Published
2. Decision notice and schedule	Published
3. Documents	Published with the exception of 1 document due to copyright
4. Additional information identified	n/a
5. Fees	n/a
6. Processing time (in working days)	42 days
7. Decision made by Ombudsman	n/a
8. Additional information identified by Ombudsman	n/a
9. Decision made by ACAT	n/a
10. Additional information identified by ACAT	n/a

ACT Government
Transport Canberra and City Services

Freedom of Information – Access Application Form

PRIVACY NOTICE

The personal information you supply on this form will only be used for the purpose of processing your request. Your application must include an email or postal address to which the respondent can send notices under the Act. If all or some of this information is not collected, Transport Canberra and City Services may not be able to communicate with you, inhibiting their obligations under the Act. This could mean the request cannot be dealt with. Your personal information will not be disclosed to a third party without your consent unless statutory obligations require otherwise.

The Transport Canberra and City Services Privacy Policy contains information on how you can access or seek to correct any of your personal information that is held by the Transport Canberra and City Services, as well as the process for lodging a complaint about an alleged breach of the *Information Privacy Act 2014*. The Privacy Policy can be found on the Transport Canberra and City Services website at www.tccs.act.gov.au.

Applicant details	
I wish to make an access application to Transport Canberra and City Services under the *Freedom of Information Act 2016.*	
Name	[redacted]
Address (where notices relating to this request can be sent either postal or electronic)	[redacted]
Telephone Contact (Business Hours)	
Telephone Contact (Mobile)	[redacted]
Email Contact	[redacted]

What documents are you requesting under the Act?

- To help Transport Canberra and City Services process your request, please include enough detail in your application so that we can fully understand what government information you want.
- You may wish to include a statement about how the release of information is in the public interest.
- If your application is for access to your own personal information you must include evidence of your identity. If you are an agent acting for an applicant, please supply evidence of your authorisation and evidence of the identity of the agent.
- If for reasons in section 30 of the Act is not compliant and your application cannot be processed, Transport Canberra and City Services will take reasonable steps to assist you and give you reasonable time to amend your application if you wish.

Fee Waiver
If you wish to apply for a fee waiver, the Act sets out a number of provisions to do so: • The information being requested is of special benefit to the public (Ombudsman guidelines see Section 66).
Fee waiver application (fill in if applicable. Otherwise leave blank)
I would like to apply for a fee waiver because **The information being requested is of special interest to the public.** **This information is essential for parents to be able to make an informed choice about the use of public playspaces for their children. I have been asked for this information by parents through the work that I do, though my request is in my personal capacity, and not on behalf of my employer.**
I would like to access documents that relate to government or government contractor use of pesticides in or around public playspaces in the ACT over the previous three years. **This information is essential for parents to be able to make an informed choice about the use of public playspaces. This would include Boundless Playground and the National Arboretum.** **The documents would include** • **The chemicals used, the date applied, the amount used and the location;** • **Any non-chemical methods used or trialled;** • **The policies and procedures that guide the use of pesticides in these playgrounds/playspaces. This may include but not be limited to training manuals, weather restrictions and recent policy reviews;** • **Any reportable incidents of chemical accidents or misuse relating to public playspaces.** **I would like a copy of these documents in a searchable form (i.e. Excel / Word) sent to the above email address.**

APPLICANTS SIGNATURE	DATE OF REQUEST
[redacted]	21.5.2019

ACT Government
Transport Canberra and City Services

[redacted]

[redacted]

Freedom of information request: Reference 19-049

I refer to an access application made under the *Freedom of Information Act 2016* (the FOI Act) by you and received by Transport Canberra and City Services directorate (TCCS) on 21 May 2019, in which you sought access to documents that relate to government or government contractor use of pesticides in or around public play spaces in the ACT over the previous three years, including:

1. the chemicals used, the date applied, the amount used and the location;
2. any non-chemical methods used or trialled;
3. the policies and procedures that guide the use of pesticides in these playgrounds/play spaces. This may include but not be limited to training manuals, weather restrictions and recent policy reviews;
4. any reportable incidents of chemical accidents or misuse relating to public play spaces

I am an Information Officer appointed by the Director-General under section 18 of the Act to deal with access applications made under Part 5 of the Act.

I understand from information provided by you to the FOI Coordinator that you are particularly interested in Boundless and the National Arboretum play space. The Chief Minister, Treasury and Economic Development Directorate will provide you with a separate response in relation to the play space at the National Arboretum.

With regards to Boundless, I understand that the TCCS FOI Coordinator has informed you that this is managed by the National Capital Authority (NCA) and a link to make an FOI application directly to NCA has been provided to you.

You should also note that TCCS does not hold any information about the large number of playgrounds or spaces that are managed by the Education Directorate and those managed by Environment, Planning and Sustainable Development Directorate (EPSDD).

While the directorate has some common understanding of what you may mean by public play spaces, the distinction is not always apparent when characterising open urban spaces. I have not been required to consider how a play space might be defined as this was not needed in relation to my decision.

TCCS was required to provide a decision on your access application by 20 June 2019. I appreciate your agreement to an extension.

As you see from my decision and, with all good intensions, I am providing notice of an intention to refuse part of your request. In addition to the legal provision to consult, the relevant business unit is very happy to meet with you about the spraying program and issues that you are interested in. The FOI coordinator will be in touch with you about this.

Notice of intention to refuse to deal with Part 1 of request

With respect to part 1 of your request I am notifying you of my intention to refuse to deal with the request on the grounds that it is an unreasonable and substantial diversion of the Directorate's resources. Under section 46 of the Act, I am required to tell you in writing of my intention to refuse to deal with the application and the grounds for refusal.

I must also provide you with a reasonable opportunity to consult about any additional information relevant to the application and any information that may assist you make an application in a form that would remove the ground for refusal. I must provide you with a minimum of 10 working days to consult starting at the day after this notice is given.

For information I have attached the relevant legal provisions at attachment A of this letter.

There is one exception to my intention. One document has been identified that was prepared in 2018 for a specific purpose. The information was from one depot (La Trobe Depot) and digitised records for the 2017-2018 financial year under the spraying program detailing chemicals used, the date applied, the amount used and the location. The document contains 958 line items. I have included this document in the release of documents covered by part 2, 3 and 4.

I outline the grounds for my refusal to deal with Part 1 of the application as follows:

Transport Canberra and City Services manages over 500 playgrounds which are included as urban open space in relation to the annual spray program. Urban open space programs may include visits up to four times a year at selected sites. This amounts to potentially 2000 individual visits per year and a minimum estimate of 6000 individual pages of information over a three-year period.

Documents which I am releasing in full to you (see below) provide the annual spray program across TCCS urban open spaces and the form that TCCS depots use in recording information about the spray program.

Information is currently not collected digitally or centralised and, if the information is collected, it is held predominantly in TCCS depots across Canberra. Most depots have limited access to ICT and therefore the forms are manually completed. There is no specific identification of public play spaces on the form.

To locate documents that contain the information that you have requested (eg. date, location and type and amount of chemical used) would require an extensive search across the information collected about all urban open spaces from various workplaces.

This would require resources to identify, locate, collate and examine thousands of documents held by TCCS and would substantially inhibit the ability of the Directorate to exercise its functions by diverting operational staff to this task. I have therefore decided to apply section 44 of the FOI Act which allows me to refuse a request on these grounds.

The second limb of section 44 calls for an assessment of the extent to which the public interest would be advanced by giving access to the information against the justification of the use of the required resources in processing the documents.

My first consideration is that the documents will show all spraying of urban public land and the identification of play spaces will not be apparent. Nevertheless, this does not mean that the information does not have public interest value.

In answering whether the public interest would be advanced, I considered that there may be limited public interest in information on the spraying of all urban public areas under the control of TCCS for a three-year period. The half-life of the chemicals used depends on several factors however these chemicals breakdown relatively quickly. I view that the information will therefore only be of historical interest and not be of enough public interest that the giving of information would advance the public interest to any great extent.

In addition, the information that TCCS protects open public areas from weeds would not of itself be novel or of itself public interest. Information being provided under the subcategories of your request does provide detail as to the type of chemicals used and the way these are used. In this regard, the public interest is met.

I also considered if the public interest would be advanced if documents for the last 12 months could be provided given that the program is an annual program.

To reduce the time span of your scope would still provide a substantial and unreasonable diversion of resources because the information relates to at least 2000 annual visits of open public spaces under the spray program.

I weighed the potential public interest of information over the last 12 months and whether it justified the diversion of resources. I consider that the advancement of the public interest by disclosing 12 months worth of material was higher than that of the last three years but not sufficiently so to justify the diversion of operational resources to this task.

Decision on access Part 2, 3 and 4

In relation to Part 2 and non-chemical methods. I note reference to a trial of non-chemical methods for the control of weeds in documents that I am releasing. No other documents on trialling of methods have been located within TCCS. This may be due to the age of the trial which I am advised took place prior to 2010.

In relation to Part 3, I have decided to provide you with the policies and procedures that guide the use of hazardous chemicals in public open spaces under the control of TCCS.

Eleven documents have been identified and I am releasing these in full to you. These documents also cover details about weather restrictions and the application of chemicals. Though these are not training manuals our officers and contractors are required to be trained in safe handling of chemicals and are aware of the use of safety data sheets (SDS).

The documents include ministerial briefing material in light of recent court findings in the United States of America about the use of Glyphosate based products.

In relation to Part 4 and any reportable incidents of chemical accidents or misuse relating to public play spaces, a search on the incident register from 1 January 2016 until 20 June 2019 showed no incidents have been reported that relate to chemical incidents or misuse of chemicals in the Directorate. I am therefore unable to deal with this aspect of your request as no documents exist (section 35 (1) (b)).

A schedule of documents identified is at Attachment B.

Reasons for my Decision

As an Information Officer, I am required to decide where, on balance, public interest lies using the test outlined in section 17 of the Act.

In reaching my decision I have taken into account the FOI Act and in particular:

- the objects of the Act and the pro-disclosure bias favouring disclosure of government information;
- Factors favouring disclosure (Schedule 2)

- 2.1 (a)(iii) – inform the community of the government's operations, including the policies, guidelines and codes of conduct followed by the government in its dealings with members of the community; and
- 2.1 (a)(xi) – reveal environmental or health risks or measures relating to public health and safety.

- Factors favouring nondisclosure in the public interest (Schedule 2).

The public interest value in providing access to the information requested lies in informing the community about the pesticides used by the government as it will reveal environmental or health risks or measures relating to public health and safety. I give substantial weight to the public interest in this regard.

The public interest also lies in the value to the public in being informed about government operations and the policies and guidelines that underpin those operations.

In this case, while I have found it is a substantial and unreasonable diversion of resources to provide detailed information on the spraying in each individual urban space *in* Canberra, the public interest in how the operations are conducted and the safeguards employed is substantial. To this end I have decided to release unredacted the 11 documents identified that fall under part 3 of your request.

Document 12 is the document referred to above an exception to my decision in relation to part 1. I have decided to release this in full as there are no factors that support non-disclosure in the public interest.

Searchable Form

You have requested these documents in a searchable form (ie. excel/word). Most of the documents are in PDF form as they are official TCCS documents that are available to staff via our intranet. In the first instance and for expediency, the documents will be released to you in PDF (Attachment C), but I have asked the FOI Coordinator to liaise with you to provide word documents and excel documents where this is possible.

Charges

As the number of documents identified is only marginally over the fee-free threshold I have decided to waive the fee of $33.95.

Ombudsman review

My decision on your access request is a reviewable decision under section 73 of the Act within 20 working days from the day that my decision is published in TCCS' disclosure log, or a longer period allowed by the Ombudsman.

If you wish to request a review of my decision you may write to the Ombudsman at:

The ACT Ombudsman
GPO Box 442
CANBERRA ACT 2601

Via email: actfoi@ombudsman.gov.au

ACT Civil and Administrative Tribunal (ACAT) review

Under section 84 of the Act, if a decision is made under section 82(1) on an Ombudsman review, you may apply to the ACAT for review of the Ombudsman decision.

Further information may be obtained from ACAT at:

ACT Civil and Administrative Tribunal
Level 4, 1 Moore Street
GPO Box 370
CANBERRA CITY ACT 2601
Telephone: (02) 6207 1740

www.acat.act.gov.au

If you have any questions concerning the directorate's processing of your request, or would like further information, please contact the directorate's FOI Coordinator on 6205 5408 or email tccs.foi@act.gov.au.

Yours sincerely

Cherie Hughes
Information Officer

4 July 2019

Extract

FREEDOM OF INFORMATION ACT 2016

Act Legislation register at https://www.legislation.act.gov.au/a/2016-55/

44 Refusing to deal with application—unreasonable and substantial diversion of resources

(1) For section 43 (1) (a), dealing with an access application would require an unreasonable and substantial diversion of the respondent's resources only if—

(a) the resources required to identify, locate, collate and examine any information held by the respondent, including the resources required in obtaining the views of relevant third parties under section 38, would substantially inhibit the ability of the respondent to exercise its functions; and

(b) the extent to which the public interest would be advanced by giving access to the information does not justify the use of the required resources.

(2) For subsection (1), the respondent—

(a) is not required to have regard to any extension by agreement between the applicant and the respondent of the period within which the application is required to be decided; and

(b) must not have regard to—

(i) any reasons the applicant gives for applying for access; or

(ii) the respondent's belief about the applicant's reasons for applying for access.

46 Refusing to deal with application—consulting applicant before refusing to deal with certain applications

(1) Before refusing to deal with an access application on a ground mentioned in section 43 (1) (a), (b), (c), (e) or (f), the respondent must—

(a) tell the applicant, in writing, of—

(i) the intention to refuse to deal with the application; and

(ii) the ground for refusal; and

(iii) the period for consultation on the proposed refusal (the ***consultation period***); and

(b) give the applicant—

(i) a reasonable opportunity to consult with the respondent and to provide any additional information relevant to the application during the consultation period; and

(ii) any information that may assist the applicant make an application in a form that would remove the ground for refusal.

(2) After any consultation with the respondent, the applicant may give the respondent an amended application.

(3) If an amended application is given to the respondent under subsection (2), the original application is taken to have been made at the time the amended application is given.

(4) In this section:

consultation period means—

(a) the period of 10 working days starting on the day after the day the notice was given under subsection (1) (a); or

(b) any longer period agreed between the respondent and the applicant before or after the end of the 10 working days.

FREEDOM OF INFORMATION REQUEST SCHEDULE

Please be aware that under the *Freedom of Information Act 2016*, some of the information provided to you will be released to the public through the ACT Government's Open Access Scheme. The Open Access release status column of the table below indicates what documents are intended for release online through open access.

Personal information or business affairs information will not be made available under this policy. If you think the content of your request would contain such information, please inform the contact officer immediately.

Information about what is published on open access is available online at: https://www.tccs.act.gov.au/about-us/freedom_of_information/disclosure-log

NAME	WHAT ARE THE PARAMETERS OF THE REQUEST
FOI – 19-049	**Pesticides in or around public play spaces in the ACT**

Doc No	No of Folios	Description	Date	Status	Reason for non-release or deferral	Open Access release status
1	1-3	Question Time Brief – The Use of Glyphosate Based Products in the ACT	30 January 2019	Full access		Published
2	4-8	Brief – Use of Glyphosate by the ACT Government	17 October 2018	Full access		Published
3	9	Attachment A – APVM media release – Response to Four Corners' story on Glyphosate	10 November 2018	Full access		Published

4	10-13	Attachment B The Conversation article – Stop worrying and trust the evidence: it's very unlikely Roundup causes cancer	10 November 2018	Full access		Published
5	14-30	Amenity Weed Control Guidelines – January 2016	January 2016	Full access		Published
6	31	Yearly Suburban Spray program	Undated	Full access		Published
7	32-41	Work Health and Safety Hazardous Substances – Fact sheet	5 February 2019	Full access		Published
8	42-48	Work Health and Safety Hazardous Substance Spill response – Fact Sheet	5 February 2019	Full access		Published
9	49-52	Work Health and Safety Eyewash station – Fact Sheet	5 February 2019	Full access		Published
10	53-56	Work Health and Safety Emergency	5 February 2019	Full access	Folio 10-13 is copyright and will not be published. The article can be found at https://theconverstation.com/stop-worring-and-trust-the-evidence-its-very-unlikely-roundup-causes-cancer-104554	Published

		Showers – Fact Sheet				
11	57-94	WHS Guideline – Hazardous Substances	March 2019	Full access		Published
12	95-147	La Trobe Depot – Spraying program	2017-2018	Full access		Published
Total No of Docs: 11 Documents (94 pages)						

ACT Government

QUESTION TIME BRIEF

Portfolio/s: City Services

City Services

ISSUE: The Use of Glyphosate Based Products in the ACT

Talking Points

- Glyphosate-based products including Roundup (brand name) are extensively used in horticulture and agriculture across the world and there are very few similar products currently available for effectively controlling weeds.
- Glyphosate is a contact herbicide that works systemically to kill an entire plant (including tis roots) with as little of 5% of the plant being contacted. This makes glyphosate an extremely effective tool for selective weed control work in an urban environment.
- Both City Services (CS) and the Parks and Conservation Service (PCS) use glyphosate-based products extensively as a contact herbicide for the control of weeds across the ACT.
- Glyphosate-based products are used to treat weeds in kerbs and gutters, gravel and mulched areas, along storm water channels, along fence lines, along rows of bollards, around trees and street furniture and for the treatment of some woody weeds.
- Glyphosate-based products are also used to treat invasive weeds including African love grass, serrated tussock and blackberry.
- CS currently uses more than 6,000 litres of concentrate each year while PCS uses approximately 2,000 litres a year.
- CS mixes a pre-emergent chemical that kills germinating seeds with glyphosate for treatment of concrete and gravel areas, which extends the time between spray passes.
- At all times, CS and PCS use chemicals including glyphosate-based products in line with label instructions, although, it has been reported that our approach to the use of PPE and safe work practices exceeds label requirements.
- Both CS and PCS have Standard Operating Procedures (SOPs) in place for the safe use of chemicals including glyphosate based products.

Cleared as complete and accurate:	30/01/2019	
Cleared by:	Deputy Director-General	Ext: 75819
Contact Officer name:	Stephen Alegria	Ext: 79833
Lead Directorate:	Transport Canberra and City Services	

- All CS staff involved in spray work including the use of glyphosate-based products have ChemCert accreditation, other task-based training and are issued with appropriate personal protective equipment (PPE).
- Spray operators do not work in winds above 20km per hour, in order to avoid drift onto non-target species and contamination of clothing.
- If spray operators contract chemicals on their body or clothing, they return to their depot to remove their wet clothing and to shower.
- Regardless of these procedures and practices, CS is currently undertaking a comprehensive review of its SOPs and safe work practices in response to the recent concerns raised about the safety of glyphosate.
- City Services has used glyphosate-based products for decades because it is widely regarded as the most effective and safe herbicide on the market.
- City Services has also used other types of herbicide for weed control, however none are as effective or safe as glyphosate based products for general weed control activities.
- City Services has also trialled non-chemical options including heat or steam treatment and an expansion of mulched areas and found that nothing is as effective as glyphosate-based products, although some such methods have a place in an integrated approach to weed control.
- All alternative methods for controlling weeds tested to date are relatively ineffective when compared to the use of glyphosate based products, meaning any change to the existing approach would require a significant increase in additional resources to achieve the same outcome.
- In 2016, the Australian Pesticides and Veterinary Medicines Authority (APVMA) (which adopts a risk based, scientific approach to regulation of chemical use in Australia) reviewed the safety of glyphosate and concluded that:
  "based on current risk assessment the label instructions on all glyphosate products – when followed – provides adequate protection for users."
- On 8 October 2018, the APVMA released a media statement reiterating its finding of 2016 that glyphosate based products are safe to use according to label directions.

ACT Government

QUESTION TIME BRIEF

- In another article released on 8 October 2018, Australian Toxicologist Dr Ian Musgrave, raised concerns that Governments were responding to public fear about glyphosate causing disease, rather than relying on good science and evidence.
- At this stage, based on the advice provided by the APVMA, both CS and PCS will continue to use glyphosate based products for general weed control and other on-label activities in the ACT.

Background

- An ABC Four Corners program, which aired on 8 October 2018, raised questions about the safety of glyphosate-based products following a decision in the USA to award US$300m in damages to a Californian man who alleged that glyphosate based herbicides caused his cancer.
- In the wake of this finding, more than 9,000 people in the USA are reportedly suing Monsanto for damages.

Cleared as complete and accurate:	30/01/2019	
Cleared by:	Deputy Director-General	Ext: 75819
Contact Officer name:	Stephen Alegria	Ext: 79833
Lead Directorate:	Transport Canberra and City Services	

ACT Government

Transport Canberra and City Services

DAT 17.10.18, to JV

Critical Date:
Critical Reason:

TRANSPORT CANBERRA AND CITY SERVICES CLEARANCE SHEET

SUBJECT: Use of Glyphosate	
TRIM FILE NUMBER	B18/304

ACTION REQUIRED ☑	☐ AGREE/SIGN
	☐ REVIEW
	☐ ENDORSE

APPROVAL PROCESS	INITIALS	DATE
Director General: Emma Thomas		
Deputy Director-General: Jim Corrigan	JC	16.10.18
Executive Director: Ben McHugh Director, City Presentation	SA	16/10 16/10.
Director Governance and Ministerial Services	Cleared	12/10
Director: City Presentation (A/g – Sue Marriage)	Cleared	10/10
Action Officer/Originator: Michael Brice	MB	09.10.18

MINISTER COMMENTS:

edits pls

ACT Government

MINISTERIAL BRIEF

Transport Canberra and City Services

UNCLASSIFIED

To:	Minister for City Services	**Tracking No.:** B18/304
From:	Director-General, Transport Canberra and City Services	
Subject:	Use of Glyphosate by the ACT Government	
Critical Date:	In the normal course of business	

Recommendations
That you note the information contained in this brief.

Noted / **Please Discuss**

Chris Steel MLA 17/10/18

Minister's Office Feedback

PLEASE PROVIDE A FURTHER BRIEF ONCE THE REVIEW OF STANDARD OPERATING PROCEDURES HAS CONCLUDED AND ATTACH THE SOPs.

I ORIGINALLY REQUESTED A BRIEF OFF THE BACK OF RESEARCH REGARDING THE EFFECT OF GLYPHOSATE ON BEE MICROBIOME. THIS IS NOT ADDRESSED IN THE BRIEF AND FURTHER ADVICE INCLUDING THE APVMA'S RESPONSE TO THE STUDY WOULD BE APPRECIATED.

FURTHER ADVICE ON PRACTICAL RESTRICTIONS ON THE USE OF ROUNDUP AS PART OF THE SOPs WOULD BE USEFUL.

Background

1. The ABC Four Corners program aired on 8 October 2018, raised questions about the safety of glyphosate products following a decision in the USA to award US$300m in damages to a Californian man who alleged that glyphosate based herbicides caused his cancer.
2. In the wake of this finding more than 9000 people are reportedly suing Monsanto for damages.
3. Glyphosate based products are extensively used in horticulture and agriculture across the world and there are very few similar products currently available for controlling weeds.
4. Both City Services (CS) and the ACT Parks and Conservation Service (PCS) use glyphosate based products extensively as a contact herbicide for the control of weeds across the ACT.
5. In 2016 the Australian Pesticides and Veterinary Medicines Authority (APVMA) which adopts a risk based, scientific approach to regulation of chemical use in Australia reviewed the safety of glyphosate and concluded that; "based on current risk assessment the label instructions on all glyphosate products – when followed – provides adequate protection for users."
6. On 8 October 2018 the APVMA released a media statement at Attachment A reiterating its finding of 2016 that glyphosate based products are safe to use according to label directions.
7. In an article from TheConversation.com of 8 October 2018 at Attachment B Australian Toxicologist, Dr Ian Musgrave, raised concerns that Governments were responding to public fear about glyphosate causing disease rather than relying on good science and evidence.

Issues

8. Glyphosate is a contact herbicide that works systemically to kill an entire plant, roots and all with as little of 5% of the plant being contacted. This makes glyphosate an extremely effective tool for selective weed control work in an urban environment.
9. Both CS and PCS use glyphosate based products extensively for weed control in the ACT.
10. Glyphosate based products are used to treat weeds in kerbs and gutters, gravel and mulched areas, along storm water channels, along fence lines, along rows of bollards, around trees and street furniture and for the treatment of some woody weeds.
11. CS currently uses more than 6000 litres of concentrate each year while PCS uses approximately 2000 litres a year.
12. CS mixes a pre-emergent chemical that kills germinating seeds with glyphosate for treatment of concrete and gravel areas which extends the time between spray passes.
13. Glyphosate is said to be non-residual after it dries and it does not affect bees.
14. At all times CS and PCS use chemicals including glyphosate based products in line with label instructions.

15. CS and PCS also use Standard Operating Procedures (SOPs) when mixing or using chemicals including glyphosate based products that ensure spray operators are kept safe.

16. CS is currently reviewing the relevant SOP's in consultation with spray operators.

17. All CS staff involved in spray work including the use of glyphosate based products have chem cert accreditation, other task based training and are issued with appropriate personal protective equipment (PPE).

18. Spray operators do not work in winds above 20km per hour to avoid drift onto non-target species and contamination of clothing.

19. If spray operators get chemical on their body or clothing they return to their depot to remove their wet clothing and to shower.

20. City Presentation has used glyphosate based products for decades because it is the most effective and safe herbicide on the market and is suitable for use on a wide variety of grasses and woody plants.

21. There are more than 200 registered herbicides on the market in Australia and many more brand name products. CS has trialed some of these chemicals for weed control and uses some of the chemicals available for specific purposes such as treating broad leaf weeds like clover. However it is broadly accepted that most of the herbicides available do not have the wide-ranging application that glyphosate does while many are more toxic.

22. CS has also explored the use of non-chemical options including; physical removal, brush cutters, heat or steam treatment, a pine oil product that created serious environmental issues and an
expansion of mulched areas. However, nothing has proven to be as effective or as safe as glyphosate based products.

Financial Implications

23. All alternative methods for controlling weeds tested to date are relatively ineffective when compared to the use of glyphosate based products meaning any change to the existing approach would require a significant increase in resources to achieve similar outcomes.

Consultation

Internal

24. The content of this brief was discussed extensively with staff and personnel within Place Management.

Cross Directorate

25. Input to this brief was sought from PCS who is the other large land management agency in the ACT. PCS have advised they will continue to use glyphosate based products pending further advice from the APVMA.

26. PCS have arranged for the expert weed advisory group which includes a representative from CS to provide an opinion on whether there should be changes to the way we use glyphosate on public land in the ACT to manage invasive grasses and plants.

27. PCS have also provided a briefing on the use of glyphosate products to their Minister and have agreed to work cooperatively with CS on a review of SOP's and a review of possible alternative products.

External

28. N/A

Work Health and Safety

29. Both CS and PCS have Standard Operating Procedures (SOPSs) and safe work practices in place for the safe use of chemicals including glyphosate based products. CS is currently undertaking a review of its SOPs in response to the recent concerns raised about the safety of glyphosate.

Benefits/Sensitivities

30. The ABC program and associated media has raised significant public awareness about the use of glyphosate that we expect will translate into an increase in public enquiries about general chemical use.

Communications, media and engagement implications

31. The ABC has approached TCCS about the use of glyphosate based products and it is anticipated that there will an elevated level of media interest in the coming weeks.

Signatory Name:	Emma Thomas	Phone:78658
Action Officer:	Jim Corrigan	Phone:75819

Attachments

Attachment A	APVMA media release - *Response to Four Corners' story on Glyphosate*
Attachment B	The Conversation article - *Stop worrying and trust the evidence: it's very unlikely Roundup causes cancer*

Australian Government
Australian Pesticides and Veterinary Medicines Authority

Response to Four Corners' story on Glyphosate

8 October 2018

Media Statement

The *Four Corners* episode that aired 8 October 2018 has questioned the safety of glyphosate products registered for use in Australia following a decision in the Californian Superior Court to award damages to a man who alleged that glyphosate-based weed-killers caused his cancer.

The Australian Pesticides and Veterinary Medicines Authority (APVMA) considered the evidence presented in the Californian case and found no grounds to take regulatory action in Australia.

The APVMA understands that the public may have concern regarding glyphosate. There is a lot of information out there, and discussion in the media does not always get the facts or the science right.

Australia's risk-based, scientific approach to regulation ensures that each agricultural chemical product is thoroughly and independently assessed by the APVMA prior to registration and supply.

The registration system is supported by a range of post market surveillance, compliance, audit verification and review activities that ensure products available in Australia continue to be used safely and effectively.

The APVMA's regulatory decisions take account of extensive scientific information and the World Health Organization's International Agency for Research on Cancer (IARC) report 2015 provided a valuable input to our ongoing assessment of the risks associated with glyphosate.

The APVMA considered the IARC report in 2016, along with an examination of many other scientific trials and studies, and like other regulators, the APVMA determined that glyphosate is safe to use according to label directions.

The manner in which the APVMA is funded bears no influence on our independent regulatory activities that continue to protect the health of Australia's people, our agricultural industry, farmers, the environment and animals.

Our regulatory history demonstrates that we hold industry to account and take action when a risk is identified.

In the past 12 months, the APVMA has acted to change label directions for 2,4-D, fined manufacturers when products did not meet specification and suspended registrations where products no longer met safety requirements.

Australian's can have confidence in the decisions of the APVMA and that our regulation will continue to protect the health and safety of people, animals and the environment.

Information relating to the APVMA's examination of glyphosate is available online.

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THE CONVERSATION
Academic rigour, journalistic flair

Stop worrying and trust the evidence: it's very unlikely Roundup causes cancer

October 8, 2018 6.08pm AEDT

Roundup is the most common weed killer used worldwide. from shutterstock.com

Stop worrying and trust the evidence: it's very unlikely Roundup causes cancer

October 8, 2018 6.08pm AEDT

Author

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The common weed killer Roundup (glyphosate) is back in the news after a US court ruled it contributed to a man's terminal cancer (non-Hodgkin lymphoma). Following the court's order for manufacturer Monsanto to compensate the former school ground's keeper US$289 million, more than 9,000 people are reportedly also suing the company.

In light of this, Cancer Council Australia is calling for Australia to review glyphosate's safety. And tonight's Four Corner's report centres around Monsanto's possible cover-up of the evidence for a link between glyphosate and cancer.

Juries don't decide science, and this latest court case produced no new scientific data. Those who believe glyphosate causes cancer often refer to the 2015 report by the International Agency for Research on Cancer (IARC) that classified the herbicide as "probably carcinogenic to humans".

IARC's conclusion was arrived at using a narrower base of evidence than other recent peer-reviewed papers and governmental reviews. Australia's regulator, the Australian Pesticides and Veterinary Medicines Authority (APVMA), reviewed the safety of glyphosate after IARC's determination. It's 2016 report concluded that

> *based on current risk assessment the label instructions on all glyphosate products – when followed – provides adequate protection for users.*

The Agricultural Health Study, which followed more than 50,000 people in the US for over ten years, was published in 2018. This real world study in the populations with the highest exposure to

glyphosate showed that if there is any risk of cancer from glyphosate preparations, it is exceedingly small.

It also showed that the risk of non-Hodgkin lymphoma is negligible. It is unclear to what extent this study was used in the recent court case.

What did the IARC and others find?

Glyphosate is one of the most used herbicides worldwide. It kills weeds by targeting a specific pathway (the shikimic acid pathway) that exists in plants and a type of bacteria (eubacteria), but not animals (or humans).

In terms of short-term exposure, glyphosate is less toxic than table salt. However, it's chronic, or long-term, exposure to glyphosate that's causing the controversy.

Pesticides and herbicides are periodically re-evaluated for their safety and several studies have done so for glyphosate. For instance, in 2015, Germany's Federal Institute for Risk Assessment suggested glyphosate was neither mutagenic nor carcinogenic.

But then came the IARC's surprising classification. And the subsequent 2015 review by the European Food Safety Authority, that concluded glyphosate was unlikely to pose a carcinogenic hazard, didn't alleviate sceptics.

The key differences between the IARC's and other reports revolve around the breadth of evidence considered, the weight of human studies, consideration of physiological plausibility and, most importantly, risk assessment. The IARC did not take into account the extent of exposure to glyphosate to establish its association with cancer, while the others did.

Read more: Council workers spraying the weed-killer glyphosate in playgrounds won't hurt your children

Demonstrating the mechanism

Establishing whether a chemical can cause cancer in humans involves demonstrating a mechanism in which it can do so. Typical investigations examine if the chemical causes mutations in bacteria or damage to the DNA of mammalian cells.

The studies reviewed by IARC, and the other bodies mentioned, that looked at glyphosate's ability to produce mutations in bacteria and to mammalian cells were negative. The weight of evidence also indicated glyphosate was unlikely to cause significant DNA damage.

Animal studies

Animal studies are typically conducted in rats or mice. The rodents are given oral doses of glyphosate for up to 89% of their life spans, at concentrations much higher than humans would be exposed to.

Studies examined by the European Food Safety Authority included nine rat studies where no cancers were seen. Out of five mouse studies, three showed no cancers even at the highest doses. One study showed tumours, but these were not dose dependent (suggesting random variation, not causation) and in one study tumours were seen at highest doses in males only.

Glyphosate works by disrupting a pathway that exists in plants but not animals or humans. from shutterstock.com

This led to the European Food Safety Authority's overall conclusion that glyphosate was unlikely to be a carcinogenic hazard to humans.

The IARC evaluation included only six rat studies. In one study, cancer was seen but this wasn't dose dependent (again suggesting random variation). They evaluated only two mouse studies, one of which was negative for cancer and that showed a statistically significant "trend" in males.

The IARC thus concluded there was sufficient evidence of carcinogenicity in animals but there was no consistency in tumour type (mouse vs rat) or location.

Read more: Are common garden chemicals a health risk?

Human studies

This is an enormous field so I can only briefly summarise the research. The European Food Safety Authority looked at 21 human studies and found no evidence for an association between cancer and glyphosate use. The IARC looked at 19 human trials and found no statistically significant evidence for an association with cancer. It did find three small studies that suggested an association with non-Hodgkin lymphoma (not statistically significant).

As already mentioned, the large Agricultural Health Study found no association between cancer and glyphosate in humans. And the 2016 review by Australia's regulator concluded glyphosate was safe if used as directed.

It's possible the animus towards Monsanto and genetically modified organisms may have influenced the recent juries' decision far more than any science. However, these materials had no impact on the scientific findings.

Cancer Four Corners IARC Monsanto Glyphosate Roundup

AMENITY WEED CONTROL GUIDELINES

City Services - January 2016

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ATTACHMENTS

Yearly suburban spray program
SOP's
Inspection Checklists
Chemical usage template
Material safety data sheets (MSDS)
No spray register

These guidelines contain excerpts of policies and procedures consistent with Weeds & Invertebrate Pest Management Guidelines 2010.

Spray Operations

PERSONNEL PROTECTIVE EQUIPMENT (PPE)

The following items of protective safety equipment must be provided by the depot to all employees engaged to undertake the use of herbicides. The GSO 9 is to ensure that the equipment is worn by employees at all times when herbicides are used.

Overalls

Overalls must be worn with long sleeves fastened at the wrist and at the front and must be worn during all herbicides handling, mixing and application operations. Each operator should be issued with a minimum of three pairs of overalls. Used overalls must be laundered at least once a week and must be laundered separately to other clothing items.

Footwear

Impervious footwear must be worn during all herbicides handling, mixing and application operations. Leather boots treated (Dubbin) to resist chemical absorption are suitable if rubber boots cause discomfort.

Gloves

Gloves must be worn during all herbicides handling, mixing and application operations. PVC, neoprene or nitrile gloves must be worn when dispensing herbicides.

Cleaning Overalls

Used overalls should be stored in a central point at each depot that is separated from clean clothes, do not store used overalls in your locker. The used overalls should be collected and laundered by Alsco each week. To ensure your overalls are returned to the right depot Alsco require the overalls be clearly marked with a depot code. It is also a good idea to mark your name or initials in your overalls.

HERBICIDE APPLICATION EQUIPMENT

Only hand held lances are to be used to apply herbicides from motorised spray units. The lance unit must be fitted with an instantaneous cut off mechanism and a suitable low drift hydraulic nozzle. The size and type of nozzle used can vary according to the type of work encountered. Generally low drift nozzles which provide a fan or cone shaped pattern are the most useful.

The nozzles must be hooded using a plastic or metal shroud to minimise spray drift when spraying in shrub beds and around small plants and trees, where spray drift may contact their foliage or green stems.

All application equipment used by spray operators or any subcontractors must be approved by the area manager. Equipment must be available at any time for inspection by the area manager. No other type of equipment including spray guns or booms can be used for weed control situations, without approval.

MINIMISING SPRAY DRIFT

All efforts are to be made to avoid excessive spray drift:

- spraying of weeds with a hand lance only
- Pump pressures are to be regulated, pressure not to exceed **170kPa (25psi)(1.7 bar)**
- low drift nozzles which provide a fan or cone shaped pattern are to be used
- do not spray herbicide in windy conditions

HERBICIDE APPLICATION

The aim of operating a power spray unit is to coat the target area uniformly with spray mixture. Although traditionally herbicides have been applied to foliage to the 'point of runoff', with the advent of modern herbicides, this technique is considered wasteful. The aim of modern herbicide application is to apply a coating of droplets to the foliage or ground surface.

MINIMISE POSSIBLE HAZARDS TO THE PUBLIC

Particular procedures have been developed to govern the use of pesticides in areas where members of the public or their property could be exposed to chemical hazards. These specifications restrict the opportunities of accidental contact of the public with pesticides. Such areas include parks, carparks, public building surrounds, nature strip trees etc. To minimise the possible hazards to the public the spray operator must undertake the following procedure:

- Each vehicle with spray application equipment is to carry on both the front and back of the vehicle a sign warning the public that spraying of pesticides is occurring – the wording must be 'WARNING – SPRAY OPERATOR – KEEP CLEAR' the height of the letters must be a minimum of 100mm, the letters are to be in black and red on a white background. The pesticide tanks must carry a sign that indicates the chemical contained in the tank.

- Wherever spraying is necessary in carparks, around public buildings, adjacent to schools or playgrounds, in picnic areas, etc every effort must be made to carry out the work when people or vehicles are not present. This may require early morning starting times.

- Spraying along bike paths, laneways, in parks or near playgrounds must be halted when people are present and are likely to come into contact with the wet chemical or be contacted by spray drift.

SIGN POSTING

Additional signs must be posted at the main entry points to spray areas in any situation
Where:

- In the judgement of the spray operator, the visibility is limited to the extent that the spray unit is not readily visible to the public from a distance of at least 25m; and

- There is a high probability that members of the public will touch or brush against sprayed vegetation in the course of normal use of the area.

DIFFERENT SPRAY MIXES

Spray operators are to select different spray mixes depending on the type of assets they are spraying.

- **Gylphosate only mix-** When spraying assets such as Kerb & Gutters or concrete medians in roads operators are not to put any Simazine in their spray mix. If Simazine is sprayed onto these areas it easily washes into our rivers and lakes. The Environment Protection Authority (EPA) regularly tests the lakes and rivers for Simazine and often find high levels that is detrimental to the environment. City Services have a legal responsibility to limit the amount of Simazine in the environment by only using it on appropriate assets.
- **Low Dye Mix.** When spraying around shops and laneways spray operators should use the Low dye mix. This is to reduce the amount of time spray dye is visible and reduce public concern about spray exposure.

- **High Rate Simazine Mix.** This mix is only to be used during the winter spray program on assets such as Roadside features, Street signs, Log Barriers / Bollards, crash rails, hard stand and barriers in priority parks.

CALIBRATION AND HERBICIDE MIXES FOR AMENITY WEED CONTROL

CALIBRATION

Equipment output per hectare =

Amount of water used litres ÷ Area Sprayed m^2 × 10,000

e.g. 14 Litres ÷ 200 m^2 × 10,000 = 700 Litres per Ha

Chemical rate per 100 litres =

Chemical rate per hectare ÷ Equipment output per Hectare × 100

e.g. Simazine 1.76 Kg per hectare ÷ 700 Litres × 100 = 0.251 Kg or 251 grams

HERBICIDE MIXES FOR GENERAL WEED PROGRAMS

Standard Mix

Used on shrub beds and dryland open space.

- Glyphosate 360 - 1 Litre per 100 Litres
- Simazine 900 - 1.76 Kg per Ha **or 110 gms per 100 litres** at 1500 litres per hectare
- Red Dye - 100 mls per 100 litres

Low Dye Mix

Used around shops, carparks, laneways, town and district parks

- Glyphosate 360 - 1 Litre per 100 Litres
- Simazine 900 - 1.76 Kg per Ha **or 110 gms per 100 litres** at 1500 litres per hectare
- Red Dye - 50 mls per 100 litres

Glyphosate only Mix

Used on Kerb and Gutter, stone walls, concrete mediums. **Simazine is not to be used.**

- Glyphosate 360 - 1 Litre per 100 Litres
- Red Dye - 50 to 100 mls per 100 litres

High rate Simazine Mix

Used on road side crash rails, light poles, signposts, and parkland log barriers only. ***Mix is applied in winter only.***

- Glyphosate 360 - 1 Litre per 100 Litres
- Simazine 900 - 5 Kg per Ha **or 500 gms per 100 litres** at 1000 litres per hectare
- Red Dye - 100 mls per 100 litres

YEARLY SUBURBAN SPRAY PROGRAM

Why Program

- Maintain the same service standard across all regions
- Reduce seasonal peaks and troughs
- Maximise the use of our limited resources
- Effective tool to determine priorities
- Easier to monitor progress and assess outcomes
- Reduces costs incurred by physical weed removal
- Fairer distribution of service between all suburbs
- Happier residents
- Improved safety

The Program Is based on:

- Seasonal growth / Weed growth cycles
- Experience and proven method
- Specifications, Standards and Service Charters
- Work Priorities
- Customer expectations
- Risk Management

Priorities

- **Priority 1:** All assets are assessed and treated
- **Priority 2:** Assets are assessed and treated if necessary, not all elements of the asset are sprayed. If allocated time period has run out move onto next asset.
- **Priority 3:** Undertaken during poor weather conditions

HOW TO USE THE PROGRAM

The spray program is broken up into different assets that we spray and different seasons of the year. The program is set up this way so that every suburb receives attention and because the requirements of an effective winter spray program is very different to the other three seasons.
The program starts on the first day of winter, it is very important that spray operations continue though out the winter months as this part of the program sets up the rest of the yearly program by getting ahead of weed growth rather than reacting to weeds once they are already growing, if you start spraying once weeds are noticeable you are already behind and will not be able to catch up.
Priority one is Shops, Laneways and Town and district parks. Try to complete all these assets in the time allotted on the program. Priority two assets are important but you probably won't be able to complete them all in the allotted time, just do as many as you can in the time you have and any assets you missed will get sprayed next time around. You can still spray by suburb but you won't be spraying every asset each spray pass, this way every suburb will get their essential assets sprayed and be treated equally.

- **Winter Spray operations** – From the 1st of June you will have two months to complete the Winter Pre Emergent program. Go through each suburb and spray all roadside features on high use roads and hardstand granite / bollards in high use parks using the **High rate Simazine mix**. Use a map to mark off where you have been and help keep track of what area is next. As of the 1st of August you should have made it around to all the parks and highly used roads, if you have not got to all the assets you still need to move on and follow the program as you will visit the assets you missed later in the year.
  From the 1st of August you have one month to complete the Winter Herbicide Program. Go through each suburb and spray all the cracks in concrete medians at intersections and also spray all underpasses and bus stops using the **Glyphosate only mix.** Use a different colour on the same maps you used earlier to mark off where you have been. Finish as many of these assets as you can during August, if you haven't finished them all by the start of spring that's ok you will visit them again later.

- **Spring Spray Operations** – From the 1st of September you will have up to one month to complete the shopping centres and laneways using the **Low Dye mix.** Try to finish one shopping centre each morning and then move on to laneways in the same suburb during the rest of the day. The next asset is town and district parks which begin in mid September, You will notice that this part of the program overlaps with shopping centres and laneways, this is because it is expected you will finish all the shops in your area before you finish all the laneways. Once the shops are all completed move onto doing the town and district parks in the mornings and doing laneways during the rest of the day. Please ensure that every shopping centre is completed before moving onto Town and district parks.
  The next asset is Arterial and collector roads and this also overlaps with Town and district parks, this is because during peak traffic hours it is best to avoid working on roadways. Use these times to finish off assets in Town and district parks. The program allows you up to six weeks to complete as many of the arterial and collector roads as you can using the **Standard spray mix.** Try to target roads that you were not able to get to during your winter roads spray program first. This asset is a priority 2 so assess the road and only spray the assets that need it.
  The next asset starts on the 1st of November, this includes kerb and gutters and concrete medians at intersections. Again assess the area and only spray the assets that need spraying using the **Glyphosate Only Mix**, This is due to City Services legal requirements to minimise the amount of Simazine that gets washed into local lakes and waterways. This part of the program overlaps with Neighbourhood parks and general open space which uses a **Standard spray mix**. This could become tricky with the two different spray mixes but there are ways to overcome it such as one spray unit doing the kerb and gutter using glyphosate only while the other spray unit does open space with the general spray mix. Another way is to do one asset one week and the other during a different week. Both these assets are priority 2 so asses the area before spraying and only spray assets that need it.
  When it comes to the end of November if you haven't finished all the assets that is ok as you have done what you can and all areas in your region have had some attention during the peak growing season. It's now time to repeat the program and start on shops and laneways again.

- **Summer and Autumn Spray Operations** - The summer and Autumn Programs are a repeat of everything you did during the spring spray program. The shops, Laneways and Town and district parks are still your priority, try to complete them all. When spraying the roads and open spaces assess the area first and try to complete any areas you may have missed last time around first. After one year the programs will start to follow on from each other and your area will look the best it can with the resources you have available as no suburb will be left out.

Winter Spray Program		June				July				August			
Priority	Program Asset Type	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4
1	Winter Pre-emergent Program - Roadside features, Street signs, Log Barriers / Bollards, crash rails, Hard stand and barriers in priority parks. - Use High Rate Simazine Mix, 500grams Per 100 Litres												
1	Winter Herbicide Program - Concrete mediums / intersections, Underpasses, Bus stops and stone walls												
3	Whippersnipping, Hand weeding, Mulching - Undertaken in poor weather - Windy / rainy days												
Spring Spray Program		**September**				**October**				**November**			
Priority	Program Asset Type	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4
1	Shopping Centres - Early mornings, Spot spray paving, spray all mowing obstacles, carparks and hardstand areas - Use General spray Mix (Low dye rate)												
1	Laneways - All Granite and grass laneways after visiting shops, General spray Mix (Low dye rate)												
1	Town & District parks - Tree bases, mowing obstacles, shrub beds, -Use General spray Mix												
2	Arterial & Collector roads - Medians (granite & Planted) other Shrub beds, mowing obstacles - Use General Spray Mix												
2	Arterial &Collector roads - Kerb & Gutter, Concrete mediums/ Intersections, Underpasses, Bus stops, foot & Cycle paths - Use Glyphosate only mix, Do not use Simazine												
2	Neighbourhood Parks & Open space - Mowing obstacles, Shrub beds, barriers, Only spray tree bases directly near assets like Playgrounds or toilets / bbq's -Use General spray Mix												
3	Whippersnipping, Hand weeding, Mulching - Undertaken in poor weather - Windy / rainy days												
Summer Spray Program		**December**				**January**				**February**			
Priority	Program Asset Type	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4
1	Shopping Centres - Early mornings, Spot spray paving, spray all mowing obstacles, carparks and hardstand areas - Use General spray Mix (Low dye rate)												
1	Laneways - All Granite and grass laneways after visiting shops, General spray Mix (Low dye rate)												
1	Town & District parks - Tree bases, mowing obstacles, shrub beds, -Use General spray Mix												
2	Arterial & Collector roads - Medians (granite & Planted) other Shrub beds, mowing obstacles - Use General Spray Mix												
2	Arterial &Collector roads - Kerb & Gutter, Concrete mediums/ Intersections, Underpasses, Bus stops, foot & Cycle paths - Use Glyphosate only mix, Do not use Simazine												
2	Neighbourhood Parks & Open space - Mowing obstacles, Shrub beds, barriers, Only spray tree bases directly near assets like Playgrounds or toilets / bbq's -Use General spray Mix												
3	Whippersnipping, Hand weeding, Mulching - Undertaken in poor weather - Windy / rainy days												
Autumn Spray Program		**March**				**April**				**May**			
Priority	Program Asset Type	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4
1	Shopping Centres - Early mornings, Spot spray paving, spray all mowing obstacles, carparks and hardstand areas - Use General spray Mix (Low dye rate)												
1	Laneways - All Granite and grass laneways after visiting shops, General spray Mix (Low dye rate)												
1	Town & District parks - Tree bases, mowing obstacles, shrub beds, -Use General spray Mix												
2	Arterial & Collector roads - Medians (granite & Planted) other Shrub beds, mowing obstacles - Use General Spray Mix												
2	Arterial &Collector roads - Kerb & Gutter, Concrete mediums/ Intersections, Underpasses, Bus stops, foot & Cycle paths - Use Glyphosate only mix, Do not use Simazine												
2	Neighbourhood Parks & Open space - Mowing obstacles, Shrub beds, barriers, Only spray tree bases directly near assets like Playgrounds or toilets / bbq's -Use General spray Mix												
3	Whippersnipping, Hand weeding, Mulching - Undertaken in poor weather - Windy / rainy days												

PESTICIDE USAGE REPORTS AND RECORDS

A monthly report showing daily usage must be sent to the area manager or nominated person on pesticide usage (a sample of this report is on page 10). The report must contain the name of the pesticides used, rate and volume used, name of weed, asset type treated, location (street and suburb) date of spraying and the name of the operator.
A register must be kept by the depot of all pesticides and hazardous substances purchased, stored and used. It must contain MSDS for all of the pesticides and hazardous substances. The register must be made available to the area manager for inspection at any time.

Material Safety Data Sheets (MSDS)

Each depot must provide a register of MSDS covering all chemicals used by employees. The MSDS should be stored in a place that is accessible to all employees. Safety practices and conditions in the work place should comply with the information provided in the MSDS.
Employees must familiarise themselves with the contents of the MSDS for products they use and comply with all safety precautions and warnings when using, storing and disposing of products.

DISPOSAL OF EMPTY PESTICIDE CONTAINERS

Drum muster
Collections are held on the first Thursday of each month between the hours of 10am to 12pm at the Mitchell Resource Centre, Flemington Road, Mitchell. Bookings are essential. Contact Redmonis on 62707700 to have a form faxed to you or collect a form from the Mitchell Resource Centre weighbridge.

Triple Rinsing
To achieve a suitable rinse, follow these steps:

- Empty the contents into the spray tank and allow the container to drain for an extra 30 seconds after the flow reduces to drops.
- Fill the container with clean water between 20 and 25 per cent of its capacity and securely replace the cap.
- Shake, rotate, roll or invert the container vigorously for at least 30 seconds, so that the rinse water reaches all inside surfaces.
- Pour the rinsate (the rinsing water from the previous step) into the spray tank and let it drain for an extra 30 seconds after the flow reduces to drops.
- Repeat until the container has been rinsed three times or free of chemical residue.

When you have finished rinsing
Follow these steps to complete the cleaning process after rinsing is undertaken:

- Look inside and make sure that all the formulation has been removed.
- Thoroughly clean the thread and outside surfaces of the container with a hose into the spray tank.
- Rinse the cap separately in a bucket of water and pour the rinsate into the tank.
- Inspect the outside of the container (particularly the screw neck and threads) to ensure they are free of any residues.

Containers will not be accepted if they:

- Have not been properly cleaned and drained inside and out (including the threads and caps) and have visible chemical residue.

PESTICIDE EQUIPMENT WASH DOWN AREA

A pesticide equipment wash down area is to be provided close to the storage facility. It is to be used for all equipment wash down to prevent contamination of the stormwater system. It must be no less than 2 metres in width and 3 metres in length by 1 metre in depth. The sides and base of the pit must be compacted clay and lined with lime and then backfilled with aggregate gravel 5-20mm in diameter.

NO SPRAY REGISTER

The 'No Spray Register' provides a list of residents who have requested that chemical spraying not be conducted by City Services in parkland immediately adjacent to their homes. The list describes where no spraying is to be carried out and details whether prior notification via telephone is required before spraying is carried out of adjacent parkland.

Where a resident has requested that no herbicide spraying is to be conducted along the boundary line of their residence or of other areas, it is the resident's responsibility to maintain that area. This requires either a mown strip or a 300 mm wide strip free of weeds around the perimeter of their property and/or along adjacent fence lines or laneways. If no spray sites include a granite laneway, then the previously sprayed granite area must also be maintained free of weeds.

The Contracts and Environmental Programs section maintains the No Spray Register and updates and forwards electronic copies to the Depot Manager as required. This list must be printed and a copy placed in all spray vehicles. Complaints regarding the spraying of no spray designated sites will be forwarded to the relevant Depot Supervisor to respond to.

Temporary Traffic Management – TTM

Any spray operations within 3 metres of a roadway requires Traffic management to be implemented. Traffic management plans must be:

- Selected by an officer who holds a current qualification in "Prepare a work zone Traffic Management Plan" (Formally known as a Red Card).
- Set up by an officer who holds a current qualification in "Implement Traffic Control Plans" (Formally Known as a Yellow Card)
- Each site that has traffic management must be accompanied by a Risk Assessment form. The form must be kept on site to be inspected by WorkSafe if required. The Risk Assessment needs to be handed in to the Depot support officer at the end of the day.

It is helpful if each spray vehicle has a booklet of TTM plans approved for situations that spray operators commonly face e.g. spraying medians, roundabouts or roadsides.

Spray Report Operator Name _____ Depot _____ Week Ending / / 2016

Date	Asset Type	Surface Type	Chemical	Mix Rate	Litres	Hours	Suburb	Street Name	Other works
	See Below codes	See Below codes	Circle as used					Closest street or park name	See below
/ / 16			G - RD - S	P/100L					
/ / 16			G - RD - S	P/100L					
/ / 16			G - RD - S	P/100L					
/ / 16			G - RD - S	P/100L					
/ / 16			G - RD - S	P/100L					
/ / 16			G - RD - S	P/100L					
/ / 16			G - RD - S	P/100L					
/ / 16			G - RD - S	P/100L					
/ / 16			G - RD - S	P/100L					
/ / 16			G - RD - S	P/100L					
/ / 16			G - RD - S	P/100L					
/ / 16			G - RD - S	P/100L					
/ / 16			G - RD - S	P/100L					
/ / 16			G - RD - S	P/100L					
/ / 16			G - RD - S	P/100L					
/ / 16			G - RD - S	P/100L					

Chemical Codes **(G)**= Glyphosate **(RD)**= Red Dye **(S)**= Simazine

Asset Abbreviations

Roadside Features - **RF** Medians - **M** Kerb & Gutter - **KG** Bike Paths - **BP**

Shrub Beds - **SB** Open Space - **OS** Irrigated Parkland - **IP** Shopping Centre - **SC**

Laneways - **L** Paths & Paving - **PP** Fencelines - **FL** Carparks - **CP**

Surface Type

Dryland Grass - **DLG** Hard Stand / Granite- **HS**

Mulched - **M** Irrigated Grass - **IG**

Brushcut

Handweed

Litter pick

Operator Signiture

ChemCert Storage Guide for Hazardous Chemicals

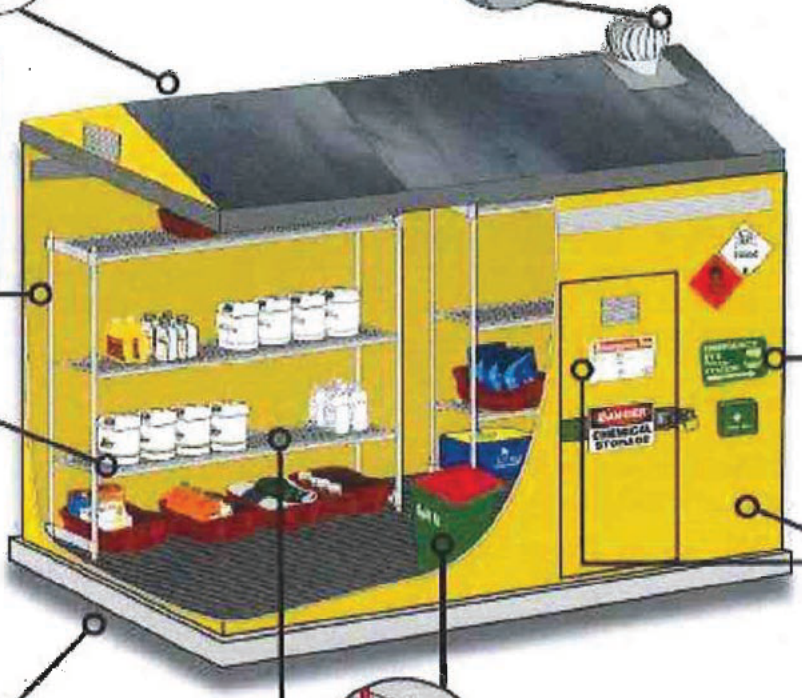
Chemical Shed 10 Point Guide

Fire & Weather Resistant Structure, chemicals protected from extreme heat and UV exposure

Ventilated (cross flow & roof exhaust vent), seek advice over the use of shipping containers

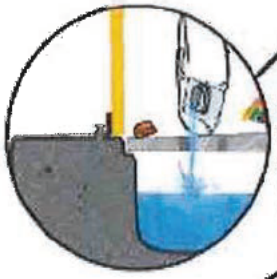
Well lit with strong metal shelving to prevent people stacking drums on top of each other

Fire extinguisher, first aid kit and PPE should be kept nearby and maintain a safety shower and eyewash station capable of 15 minute eyewash in the event of a pesticide splash into the eyes



Original Containers with intact legible label, never decant into food/beverage container

Lockable with a child proof latch and ***appropriate signage***



Bunded non slip concrete floor to contain 25% of total volume or 100% of the largest package

Spill kit should be kept inside the storage area suitable for the chemicals housed

Emergency plan with emergency contact numbers and SDS nearby, Poisons Information centre number and diagram of assembly area should be mounted near entrance.

Segregated & correctly stored, separate flammables from non-flammables by at least 3 metres and pesticides from animal food and feedstuffs/seed/fertilisers, out of direct sunlight and away from materials that burn readily like oils, hay, straw, old tyres, saw dust and tall dry grass. Solids should be stored above liquids.

Hazardous Chemical Storage

Federal - Make sure all Agvet chemicals stored carry an APVMA approval number

EPA - Waste management – spills, chemical and container disposal – Chemclear and drumMuster

WHS - Keep a register of all hazardous chemicals and their current (less than 5years old) safety data sheets (sds)

Larger quantities - placarding, manifests and notification

GHS Hazard class	*GHS Hazard category*	*ADG Class/ Packing Group*	*Placard quantity*	*Placard to display*	*Manifest Quantity*
Acute toxicity	1	6.1 PG 1	50 kg/L		500 kg or L
"	2	6.1 PG 11	250 Kg/L		2,500 Kg or L
"	3	6.1 PG 111	1,000 kg/L		10,000 Kg or L

As a general rule GHS flammable liquids, Skin corrosion and Oxidising liquids and solids require the same placard and manifest quantities as above but display their own respective placards.

An industry safety initiative from ChemCert

www.ChemCert.com.au

For Local Courses
Freecall 1800 444 228

STANDARD OPERATING PROCEDURE

Version 1.9

SOP TITLE	SOP REFERENCE NUMBER
Chemicals Use in the Field	**3**

SCOPE/LIMITATIONS

- The selection, mixing and application of chemicals for field operations in urban areas (including public facilities).

RISK ASSESSMENT REFERENCES

- RA 3 Chemicals Field

MANDATORY LICENCES/PERMITS/QUALIFICATIONS

- Environmental authorisation for Weed Control and for Pest Control.
- Drivers Licence appropriate for vehicle used.
- TTM authorisation.

MANDATORY PERSONAL PROTECTIVE EQUIPMENT & CLOTHING

- Eye protection (goggles, faceshield); Respiratory protection; Gloves; Overalls; Apron; Safety Boots. Hi Vis vest. Bee suit (as required). Waders for aquatic use (as required). Soap and water for washing spilled chemical from the skin as soon as posible.

TRAINING REQUIREMENTS

- On the job training and supervision.
- TTM training appropriate for the level.
- Chemcert Accreditation AQF Level 3 or Chemcert Supervisors AQF Level 4
- Urban Pest Management Certificate for authorised pest control technicians.
- WHS White Card.
- WHS Induction: Dangerous Substances.
- WHS Manual Handling Training.

RESOURCES REQUIRED

- Environmental Weeds and Invertebrates Pests Management Guidelines (the *Guidelines*) & MSDS, to be kept in the Spray Unit (vehicle).
- Selection of the correct chemicals through a purchasing policy (comprised of pest management guidelines and an authorised person).
- Vehicles (Spray Units) and correct decanting and application equipment.
- Safety equipment (PPE, first aid kit, spill kit, fire equipment) to meet Australian Standards and emergency contact information.
- TTM plans, signage, and related equipment.
- Informative (warning) signs related to spraying activities.
- Additional equipment related to night spraying.
- No-spray Register.
- Awareness of related SOP's (eg Chemicals Use in Facilities (Depots).

GENERAL WARNINGS & PRECAUTIONS

- An understanding of, and compliance with chemical labels and MSDS.
- An understanding of, and compliance with Registered and/or Approved chemicals.
- Compliance with ACT Government Code of Conduct.
- An awareness of any on-site features or procedures.
- Compliance with the requirement that Spray Units and equipment should only be used for their designated purpose.
- Compliance with the requirement that Spray Units and equipment should be secured by the operator as far as reasonably practicable at all times.
- Comply with personal hygiene recommendations to avoid exposure to contaminated food or clothing as per the *Guidelines*.

SAFETY CONSIDERATIONS & TASK INSTRUCTIONS

1. Pre-operational check(at the Facility):

1.1 Identify and evaluate the pest or weed and site from the schedule of programmed work or from the incidental client request.

1.2 Consult documentation or supervisor to identify any sensitive area or task.

1.3 Select the appropriate controls: correct chemical and rate; equipment and materials, to safely manage the pest or weed operation.
1.4 Check the application equipment as per the *Guidelines.* Calibrate the equipment as required.
1.5 Monitor the weather conditions for the feasilbility of spraying.
1.6 Select the correct PPE from the MSDS.
1.7 Mix and /or decant, according to the label specifications, into the application equipment on the Spray Unit.
1.8 Complete the chemicals manifest.
1.9 Use safe manual handling techniques when loading goods and materials onto the Spray Unit.

2. On-site operation:

2.1 Complete the Risk Assessment documentation (which includes the TTM Plan).
2.2 Place signage (TTM and warning signs).
2.3 Use required PPE.
2.4 Use application equipment in the prescribed manner.
2.5 Maintain risk awareness whilst operating on the site.

3. Post-operation:

3.1 Remove TTM signs and warning signs as appropriate.
3.2 Use up or transfer surplus chemical safely.
3.3 Decontaminate spray equipment as per *Guidelines* at the completion of the spraying program.
3.4 Complete the Chemical Use Register.
3.5 Use the available showers at the Facility as required.
3.6 Ensure contaminated clothing does not leave the Facility and that it is placed in the appropriate place for cleaning.
3.7 Ensure PPE is suitably cleaned and maintained.

4. Minor Spills and Leaks clean-up:

4.1 Clean up spills according to the *Guidelines*.
4.2 Dispose of contaminated waste (eg empty containers, rags, spill kit materials) according to the documented waste collection agency requirements.

5. Major Spills and Incidents:

5.1 Follow emergency procedure for the type of event (eg spills, spray drift, fire, and accident) as per information in the *Guidelines*.

6. Reporting Incidents:

6.1 Incidents (eg spills, unexpected hazards, adverse responses to chemical use, equipment failure) should be reported using the appropriate documents such as HAZACAT Booklet, AI Report Form.

COMPLIANCE REQUIREMENTS

Including but not limited to;
Work Safety Act 2008, Work Safety Regulations 2009, Australian Standards, Codes of Practice and approved guidelines.

SOP APPROVAL

		SIGNATURE	DATE
Paul Cairns	Manager Operations Support Group		

Review or update of this SOP is required under any of the following circumstances:

- Annually in accordance with approval date
- For any plant, equipment or training change
- For any change to licensing/certification requirements
- For any change to work systems or procedures
- After any related accident or incident
- With any change of responsibilities for review/approval

STANDARD OPERATING PROCEDURE

Version 1.9

Activate the 'Show/Hide' icon [¶] on the top toolbar to see additional instructions [View][Toolbars][Standard][Show/Hide¶]

SOP TITLE	SOP REFERENCE NUMBER
Chemicals Use in Facilities (Depots)	**2**

SCOPE/LIMITATIONS

- The acceptance, storage, movement on site, decanting and clean-up of chemicals in a Facility.

RISK ASSESSMENT REFERENCES

- RA 2 Chemical Facility

MANDATORY LICENCES/PERMITS/QUALIFICATIONS

- Environmental authorisation for Weed Control and Pest Control (for the Facility).
- Urban Pest Management Certificate (for the 'Authorised Person' in the Facility).
- Chemcert Accreditation AQF Level 3.
- Chemicals prepare and use (for the 'Authorised Person' in the Facility) or Chemcert Supervisors AQF Level 4 Chemicals, risk assessment (for the 'Authorised Person' in the Facility).

MANDATORY PERSONAL PROTECTIVE EQUIPMENT & CLOTHING

- Eye protection (goggles, faceshield); Respiritory protection; Gloves; Overalls; Apron; Safety Boots.

TRAINING REQUIREMENTS

For personnel using this SOP:

- WHS Induction: Dangerous Substances.
- WHS Induction training.
- WHS Manual Handling Training.

RESOURCES REQUIRED

- Selection of the correct chemicals through a purchasing policy (comprised of environmental weeds & invertebrate pest management guidelines and an authorised person).
- Approved storage facilities (mixed package store).
- Approved Fume cabinet.
- Approved fill-up and wash-down area.
- Safety equipment (eye wash, deluge shower, first aid kit, spill kit, fire equipment) to meet Australian Standards.
- Safety signage to meet Australian Standards.
- Chemicals handling equipment (trolleys, pumps, scales, measuring jugs).
- Awareness of any related SOP's (eg Chemicals Use in the Field).
- Latest available MSDS & chemical labels

GENERAL WARNINGS & PRECAUTIONS

- An understanding of, and compliance with chemical labels and MSDS.
- An understanding of, and compliance with Registered and/or Approved chemicals.

SAFETY CONSIDERATIONS & TASK INSTRUCTIONS

1. Pre-operational check:

1.1 Check label to correctly identify the chemical.
1.2 Check the integrity of the packaging.
1.3 Check the MSDS for correct storage requirements.
1.4 Check the MSDS for correct PPE selection.
1.5 Check the quantity delivered against the amount ordered.

2. On-site handling:

2.1 Use the correct handing equipment to place the chemical in its storage location.
2.2 Complete the stores manifest.

3. Decanting:

3.1 Review the Works Program for the chemical to be used and its concentration.
3.2 Select the correct chemical according to the label.
3.3 Ensure that the intended operation is listed on the product label. If the chemical is not prescribed for the intended application, contact your supervisor who will find an appropriate chemical or obtain an off-label permit from the APVMA.
3.4 Use the appropriate PPE for the chemical.
3.5 Select the required decanting equipment to allow transfer of the liquids without spilling.
3.6 Use the Fume cabinet if required by the MSDS, or by the perceived hazardous nature of the material being handled (eg dust or fumes).
3.7 Use a suitable dispensing technique to minimise spills.
3.8 Use suitable chemicals handling equipment to move the decanted liquid to the required location for further use (application).

4. Spill clean-up:

4.1 Clean up spills according to the MSDS, AVCare Code or Pest Management Guidelines.
4.2 Dispose of contaminated waste (eg empty containers, rags, spill kit materials) according to the documented waste collection agency requirements.

COMPLIANCE REQUIREMENTS

Including but not limited to;
Work Safety Act 2008, Work Safety Regulations 2009, Australian Standards, Codes of Practice and approved guidelines.

SOP APPROVAL

		SIGNATURE	DATE
Paul Cairns	Manager Operations Support Group		

Review or update of this SOP is required under any of the following circumstances:

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- For any plant, equipment or training change
- For any change to licensing/certification requirements
- For any change to work systems or procedures
- After any related accident or incident
- With any change of responsibilities for review/approval

ACT Government
Territory and Municipal Services

City Services – Monthly field Spray Vehicle Safety Check

Date..... Depot.....Inspected By.....
Vehicle Rego.....Operator/s.....Chemicals.....

- **VEHICLES**

☐ Clean Cabin and Tray
☐ Emergency procedure guide in cabin
☐ Chemicals being used displayed on spray unit tank
☐ Spill kit present in safety box
☐ Fresh water, towel, soap, eyewash bottle in safety box
☐ Fire Extinguisher present
☐ First aid kit adequately stocked in cabin
☐ No Spray register present in cabin

Comments / Action.....
.....
.....

- **WARNING SIGNS**

☐ Warning signs on front and back of vehicle
☐ Orange flashing lights in working order
☐ Tailgate painted yellow and black
☐ Portable warning signs available and used

Comments / Action.....
.....

- **SPRAY EQUIPMENT**

☐ Pump Pressure less than 25psi (1.7bar) or (175kpa)
☐ Pump Pressure reading.....
☐ Spray lances right length & working with no leaks
☐ Spray lances fitted with hoods or available if needed
☐ Pump, motor, tank & hoses in good working order
☐ Pump pressure gauge working
☐ Efforts being made to avoid spray drift

Comments / Action.....
.....
.....

- **PERSONNEL PROTECTIVE EQUIPMENT (PPE) / PERSONAL SAFETY**

☐ Overalls worn with sleeves and front fastened
☐ Correct footwear worn (leather boots treated with Dubbin)
☐ Wearing of contaminated clothing being avoided
☐ Food carried in cabin in an airtight container
☐ Gloves worn and uncontaminated.(no dye visible inside)
☐ Hands are washed before meal breaks
☐ Smoking and eating being avoided whilst spraying

Comments / Action.....
.....

☐ Any Action required by supervisor.....
.....
.....

Inspectors Signature.....Date...../...../.....

ACT Government
Territory and Municipal Services

City Services – Monthly Spray Depot Safety Check

Date..... Depot.....Inspected By.....
Name of Operators.....

- **GENERAL SAFETY**

☐ Chemical storage room's lockable
☐ Adequate lighting in storage room area
☐ Chemicals correctly stored and labelled
☐ Fire extinguisher available and inspected recently
☐ MSDS available and current
☐ Wash down area complies with requirements
☐ Warning signs on chemical storage room
☐ Only authorised items being stored
☐ Correct disposal of empty containers
☐ Spill kit available and adequately stocked
☐ Chemical register current and available at front gate

Comments / Actions.....
.....
.....

- **CLEANLINESS / TIDINESS**

☐ Floor and shelving clean
☐ Wash down area clean
☐ Empty chemical containers regularly disposed of.
☐ Dispensing area clean
☐ Spilt chemicals cleaned up

Comments / Actions.....
.....
.....

- **PERSONAL SAFETY**

☐ Eye wash station present and operational
☐ Laundry service adequate
☐ Safety equipment clean and properly stored
☐ Spray operators have personal locker for clean clothes
☐ Soap, paper towelling and water available
☐ Emergency shower present and operational
☐ used overalls being excluded from eating area
☐ Operators have second clean pair of boots (Non spray)
☐ First aid kit available and adequately stocked.

Comments / Actions.....
.....
.....

☐ Any action required by supervisor.....
.....
.....
.....

Inspectors Signature.....Date...../...../.....

Yearly Suburban Spray Program

Winter Spray Program		June				July				August			
Priority	Program Asset Type	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4
1	**Winter Pre-emergent Program** - Roadside features, Street signs, Log Barriers / Bollards, crash rails, Hard stand and barriers in priority parks. - **Use High Rate Simazine Mix, 500grams Per 100 Litres**												
1	**Winter Herbicide Program** - Concrete mediums / intersections, Underpasses, Bus stops and stone walls **- Use Glyphosate only mix, Do not use Simazine**												
3	Whippersnipping, Hand weeding, Mulching - Undertaken in poor weather - Windy / rainy days												
Spring Spray Program		**September**				**October**				**November**			
Priority	Program Asset Type	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4
1	**Shopping Centres** - Early mornings, Spot spray paving, spray all mowing obstacles, carparks and hardstand areas **- Use Low dye Mix**												
1	**Laneways** - All Granite and grass laneways after visiting shops, **use Low dye Mix**												
1	**Town & District parks** - Tree bases in irrigated areas, mowing obstacles, shrub beds, Playgrounds **-Use Standard spray Mix**												
2	**Arterial & Collector roads** - Medians (Granite & Planted) other Shrub beds, mowing obstacles - **Use Standard Spray Mix**												
2	**Arterial &Collector roads** - Kerb & Gutter, Concrete mediums/ Intersections, Underpasses, Bus stops, foot & Cycle paths **- Use Glyphosate only mix, Do not use Simazine**												
2	**Neighbourhood Parks & Open space** - Mowing obstacles, Shrub beds, Playgrounds, barriers, Only spray tree bases directly near assets like Playgrounds or toilets / bbq's **-Use Standard spray Mix**												
3	Whippersnipping, Hand weeding, Mulching - Undertaken in poor weather - Windy / rainy days												
Summer Spray Program		**December**				**January**				**February**			
Priority	Program Asset Type	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4
1	**Shopping Centres** - Early mornings, Spot spray paving, spray all mowing obstacles, carparks and hardstand areas **- Use Low dye Mix**												
1	**Laneways** - All Granite and grass laneways after visiting shops, **use Low dye Mix**												
1	**Town & District parks** - Tree bases in irrigated areas, mowing obstacles, shrub beds, Playgrounds **-Use Standard spray Mix**												
2	**Arterial & Collector roads** - Medians (Granite & Planted) other Shrub beds, mowing obstacles - **Use Standard Spray Mix**												
2	**Arterial &Collector roads** - Kerb & Gutter, Concrete mediums/ Intersections, Underpasses, Bus stops, foot & Cycle paths **- Use Glyphosate only mix, Do not use Simazine**												
2	**Neighbourhood Parks & Open space** - Mowing obstacles, Shrub beds, Playgrounds, barriers, Only spray tree bases directly near assets like Playgrounds or toilets / bbq's **-Use Standard spray Mix**												
3	Whippersnipping, Hand weeding, Mulching - Undertaken in poor weather - Windy / rainy days												
Autumn Spray Program		**March**				**April**				**May**			
Priority	Program Asset Type	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4
1	**Shopping Centres** - Early mornings, Spot spray paving, spray all mowing obstacles, carparks and hardstand areas **- Use Low dye Mix**												
1	**Laneways** - All Granite and grass laneways after visiting shops, **use Low dye Mix**												
1	**Town & District parks** - Tree bases in irrigated areas, mowing obstacles, shrub beds, Playgrounds **-Use Standard spray Mix**												
2	**Arterial & Collector roads** - Medians (Granite & Planted) other Shrub beds, mowing obstacles - **Use Standard Spray Mix**												
2	**Arterial &Collector roads** - Kerb & Gutter, Concrete mediums/ Intersections, Underpasses, Bus stops, foot & Cycle paths **- Use Glyphosate only mix, Do not use Simazine**												
2	**Neighbourhood Parks & Open space** - Mowing obstacles, Shrub beds, Playgrounds, barriers, Only spray tree bases directly near assets like Playgrounds or toilets / bbq's **-Use Standard spray Mix**												
3	Whippersnipping, Hand weeding, Mulching - Undertaken in poor weather - Windy / rainy days												

ACT Government
Transport Canberra and City Services

Work Health and Safety Hazardous Substances Fact Sheet

Purpose

To inform managers and workers about their role in the TCCS Work Health and Safety Management System (WHSMS) and support the implementation of the WHS Hazardous Substances Guideline.

Background

A chemical hazard is a set of inherent properties of the substance, mixture, article or process that may cause adverse effects to organisms or the environment. Hazardous chemicals may present an immediate or long-term injury or illness risk to people. These hazardous chemicals are regulated under the *Work Health and Safety Regulation 2011,* Part 7.

Dangerous substances are substances that have certain specific properties, such as flammable gases and combustible liquids, or explosives.

The term hazardous substances is used when referring to hazardous chemicals and dangerous substances together.

Safety data sheets

The most important resources for managers and workers who use a hazardous substance is the safety data sheet (SDS). TCCS must obtain the SDS for a hazardous substance from the manufacturer, importer or supplier no later than when the hazardous substance is first supplied at the workplace.

The identity of hazardous substances can usually be determined by looking at the label on the container and the SDS, and reading what ingredients are in each chemical or product.

The SDS contains information on the identity of the product and any hazardous ingredients, potential health effects, toxicological properties, physical hazards, safe use, handling and storage, emergency procedures, and disposal requirements specific to the chemical.

The workplace must hold a current copy of the SDS. SDS documents are renewed at least every 5 years.

Hard copy SDS for the hazardous substances should be printed and made available where the hazardous substances are used and stored.

Chemical registers

The workplace is required to have a chemical register, which records all the chemicals in the workplace. A chemical register can be either electronic or paper based. Where an electronic

chemical management system (for example MSDS.COM) is used, workers must be provided with information about how to access the system, including the login details.

Other hazardous substances exposures

In some cases, a chemical may not have a label or an SDS, for example where fumes are generated in the workplace from an activity. Managers and workers are also required to identify any workplace processes that produces hazardous substances as by-products or waste, for example:

- hydrogen sulphide in a sewer;
- diesel exhaust fumes from truck engines;
- toxic fumes and vapours created by the use of welding rods;
- toxic metal dust or fumes produced by grinding metals release or silica produced by grinding concrete;
- substances released from landfill;
- off-gassing of solvent vapours from glues used to manufacture timber products; and
- dusts released from machining timbers.

Using non-hazardous or domestic chemicals in the workplace

Chemicals that are not listed as a hazardous chemical and that are used for the same purpose as domestic use (such as herbicides and cleaning products) do not require a risk assessment.

These chemicals can still be harmful to health (for example they may be poisons) and the safety precautions on the label directions must be followed. Risk controls for these chemicals should be included in business unit work health and safety documents.

All chemicals must be kept out of the reach of children.

The workplace chemical register (electronic chemical management system such as MSDS.COM or an Excel spreadsheet) must include information about all the chemicals in the workplace.

Risk assessments

Managers who purchase or approve the use of a hazardous substance must follow the WHS Procurement Guideline and the WHS Hazardous Substances Guideline. TCCS must undertake a risk assessment of any hazardous substance in accordance with the guidelines.

A hazardous substances checklist is included in this fact sheet to assist managers and workers review their hazardous substances requirements.

The risk controls for hazardous substances must be incorporated into the relevant written work health and safety documents for the business unit, including safe work method statements (SWMS) and job safety analysis (JSA) documents.

The risk assessment will identify the action that needs to be taken to use, store and dispose of a hazardous substance, including:

- producing or updating chemical registers, hazardous substances manifests and ensuring that placards are displayed;
- storage, spill and disposal requirements;
- notification requirements to WorkSafe ACT; and
- the impact on the workplace emergency plan (including consultation requirements with ACT Fire and Rescue, where required).

Training for workers

The information, training and instruction for workers should include the:

- nature of the hazardous substances and the risks;
- control measures implemented, how to use and maintain them correctly;
- arrangements in place to deal with emergencies, including containing and cleaning up spills and first aid instructions;
- selection, use, maintenance and storage of any personal protective equipment (PPE) required and the limitations of the PPE;
- labelling of containers of hazardous substances, the information that each part of the label provides;
- availability of SDS for all hazardous substances, how to access the SDS, and the information that each part of the SDS provides; and
- standard operating procedures to be followed in the use, handling, processing, storage, transportation, cleaning up and disposal of hazardous substances.

More information

More information is available from:

- the WHS Hazardous Substances Guideline;
- business unit health and safety advisors (where available); and
- Safety and Wellbeing Branch.

Hazardous substances workplace risk assessment checklist

Workplace name and location: **Date:**	
Criteria	**Yes (Y) / No (N) / not applicable (NA)**
1. Have all hazardous substances in the workplace been identified?	
2. Is a chemical register been established (refer to page 21 of the WHS Hazardous Substances Guideline)?	
3. Has the current safety data sheet (less than 5 years old) for each hazardous substance been obtained and a copy stored with the substance?	
4. Have other records associated with the hazardous substances been checked?	
5. Do the hazardous substances have health hazards (refer to page 5 of the WHS Hazardous Substances Guideline)?	
6. Do the hazardous substances have physiochemical hazards (refer to page 5 of the WHS Hazardous Substances Guideline)?	
7. Do the hazardous substances have an exposure standard (refer to pages 10-11 of the WHS Hazardous Substances Guideline)?	
8. Is expert advice and air monitoring required (refer to pages 13-14 of the WHS Hazardous Substances Guideline)?	
9. Has a risk assessment been undertaken of all hazardous substances?	
10. Does the exposure hazardous substances require health monitoring of workers (refer to pages 26-27 of the WHS Hazardous Substances Guideline)?	
11. Are the control measures in the workplace well maintained and effective in controlling the hazards?	
12. Has a spill containment procedure and equipment been established (refer to pages 24-25 of the WHS Hazardous Substances Guideline)?	
13. Does the workplace require additional emergency showers or eyewash stations?	
14. Does the workplace emergency plan require changes as a result of the presence of a hazardous substance?	
15. Is a hazardous substance manifest required (refer to page 22 of the WHS Hazardous Substances Guideline)?	
16. Have workers been instructed and trained to use the hazardous substances safely (refer to page 31 of the WHS Hazardous Substances Guideline)?	
Action take:	
Name of person/s completing the checklist: **Signature:**	**Date:**

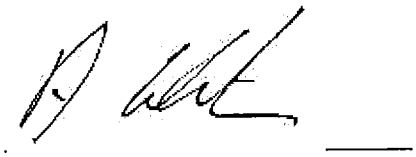
Document Information

Document ID	Title
A18799182	WHS Hazardous Substances Fact Sheet

REVISION	DOCUMENT OWNER	DATE PREPARED
1.0	Safety and Wellbeing Branch	December 2018
TYPE	**APPROVED BY**	**REVIEW DATE**
Fact Sheet	Executive Branch Manager, Safety and Wellbeing	March 2020

DATE APPROVED

5 February 2019



Anthony Wickens
Executive Branch Manager, Safety and Wellbeing

ACT Government
Transport Canberra and City Services

Work Health and Safety Hazardous Substances HSA Fact Sheet

Purpose

To inform health and safety advisors (HSA) about their role in the TCCS Work Health and Safety Management System (WHSMS) and support the implementation of the WHS Hazardous Substances Guideline.

HSAs are expected to support their business units to implement the WHS Hazardous Substances Guideline. This fact sheet provides additional material to support that objective.

Background

The management of hazardous substances (hazardous chemicals and dangerous substances) is one of the more complex areas of work health and safety practice.

Chemical hazards are a major occupational health and safety issue in Australian workplaces. The management of chemical hazards requires the combined efforts of WHS practitioners, including occupational hygienists and occupational health practitioners, in some cases. The modern approach to chemical hazard control encompasses both the reactivity and toxicity of chemicals.

Knowledge of hazardous substances

HSAs require practical knowledge about chemical states, structure and reactivity and of the biological systems of the human body, to understand how chemical hazards behave and how they cause damage.

The term, hazardous chemical refers to substances that fall into the internationally agreed Globally Harmonized System of Classification and Labelling of Chemicals (GHS) for health effects, physicochemical properties or environmental impacts, or otherwise meet the criteria for inclusion on the list of hazardous chemicals. In practice, the term combines attributes of dangerous goods and hazardous substances. Hazardous chemicals include industrial chemicals, pesticides, agricultural chemicals, pharmaceuticals, cosmetics and food-related chemicals. The GHS covers all hazardous chemical substances, solutions and mixtures of chemicals with the classifications linked to hazard symbols, signal words, hazard and precautionary statements, which provide information on safe storage, handling, disposal, personal protection and first aid.

Dangerous substances are substances that have certain specific properties, such as flammable gases and combustible liquids, asbestos or explosives.

The term hazardous substances is used in the WHS Hazardous Substances Guideline when referring to hazardous chemicals and dangerous substances together.

Safety data sheets

The identity of hazardous substances can usually be determined by looking at the label on the container and the safety data sheet (SDS), and identifying the ingredients in each chemical or product.

The most important information source for a hazardous substance is the SDS, which contains information on the identity of the product and any hazardous ingredients, potential health effects, toxicological properties, physical hazards, safe use, handling and storage, emergency procedures, and the specific disposal requirements.

The SDS will use signal words to indicate the relative level of severity of a hazard. The GHS uses 'Danger' and 'Warning' as signal words. 'Danger' is used for a more severe or significant hazard, while 'Warning' is used for the less severe hazards.

Hazard statements describe the nature of a hazard, including the degree of hazard, where appropriate. A unique hazard statement is assigned to each hazard class and category. Precautionary statements describe the recommended measures that should be taken to minimise or prevent adverse effects resulting from exposure to, or improper storage or handling of, a hazardous chemical. Precautionary statements are assigned to each hazard class and category and are separated into five categories:

1. Prevention statements refer to precautions to be taken to prevent an accident or exposure.
2. Response statements refer to instructions in case of an accident.
3. Storage statements refer to instructions for safe storage of the chemical.
4. Disposal statements refer to appropriate disposal instructions.
5. General statements for use as appropriate.

Safe Work Australia also maintains the Hazardous Chemical Information System (HCIS), which is a searchable database. The HCIS provides information on chemical name(s) and number, labelling requirements, concentration cut-offs for mixtures, hazard type, exposure levels and carcinogenic category, and lists any notices.

The WHS Hazardous Substances Guideline includes information about SDS and how to use the information contained in these documents. HSAs should review this information before using the HCIS and SDS information if they are not regular uses of this information.

Other hazardous substances exposures

In some cases, workers may be exposed to a chemical, without access to a label or an SDS, for example. Workplaces must also identify any exposure to or process that produces hazardous substances as by-products or waste, for example:

- hydrogen sulphide in a sewer;
- diesel exhaust fumes from truck engines;
- toxic fumes and vapours created by the use of welding rods;
- toxic metal dust or fumes produced by grinding metals or silica produced by grinding concrete;

- substances released from landfill;
- off-gassing of solvent vapours from glues used to manufacture timber products; and
- dusts released from machining timbers.

Risk assessments

Where there is evidence of worker exposure to a hazardous chemical or release of such a chemical into the atmosphere and the controls are known, a HSA may recommend immediate action to control the exposure.

The first step for the HSA is to identify the chemicals from their labels and the SDS. HSAs need a basic understanding of chemicals, chemical states and chemical reactions. Together with information in the SDS, the HSA can identify the nature of the potential harm and how this might be caused. It may be appropriate to consult the HCIS, or other information sources, for more information.

The Safe Work Australia poster showing the Classification and labelling of workplace hazardous chemicals should be printed and displayed in workplaces that store or use hazardous chemicals.

The WHS Hazardous Substances Guideline requires that a risk assessment is undertaken for all hazardous substances. Where hazardous substances are used across multiple business units for the same or a similar purpose, generic risk assessments can be undertaken. HSAs should check with Safety and Wellbeing Branch before commencing a new risk assessment of a hazardous substance to check if one has already been undertaken.

The purpose of a chemical risk assessment is to reduce the exposure to a hazardous chemical to the lowest practicable level, not to assign a risk rating or compare a measured exposure level with an exposure standard.

The risk of harm or damage from chemical exposure is multifactorial and is a function of the:

- chemical state;
- route of exposure;
- dose-response relationship;
- extent of exposure;
- nature of the task or activity involving the chemical;
- workplace environment; and
- individual worker.

The sources of information for hazard identification discussed above (labels, SDS and hazardous chemical databases) provide information for a risk assessment.

For health hazards, measurements of chemical concentrations in workplace air are compared to occupational exposure standards (OESs).

A risk assessment may be:

- a qualitative risk assessment based on the SDS, inspection, observation and workplace consultation;
- through investigation, incident, first aid and medical reports, supported by some basic monitoring; or

- a quantitative risk assessment conducted by an occupational hygienist (including air monitoring if that is the exposure route).

TCCS must ensure that exposure is below the relevant exposure standard. TCCS should also go beyond the minimum requirement to ensure that any exposure is at the lowest practicable level, given the long latency of some responses to chemical hazards and the ongoing development of knowledge about the impact of chemicals.

HSAs should:

- provide advice to business units about the risk controls for hazardous substances;
- participate in hazardous substances risk assessments;
- provide advice about when a risk assessment should include an occupational hygienist and air monitoring (refer below); and
- review chemical registers, which can be an electronic record, such as MSDS.COM or an Excel spreadsheet (All chemicals must be listed in the chemical register and a hazardous chemical manifest must be created for specified quantities hazardous chemicals). The WHS Hazardous Substances Guideline includes detailed information about these requirements.

WHS Regulation 50 requires TCCS to undertake air monitoring if it is not certain whether or not the concentration of an airborne contaminant exceeds the relevant exposure standard or to determine whether there is a risk to health. Air monitoring will be necessary where there is doubt that the exposure controls have been effective and to determine whether an exposure standard is being exceeded.

Expert advice may also be required to determine if compliance with exposure standards is being achieved without undertaking air monitoring. Generally, an occupational hygienist would be engaged to undertake air monitoring. Air monitoring and expert advice, where required, is a business unit expense.

More information

More information is available from the:

- WHS Hazardous Substances Guideline;
- Work Health and Safety (Hazardous Chemicals) Code of Practice;
- OHS Body of Knowledge – Chemical Hazards; and
- Safety and Wellbeing Branch.

Document Information

Document ID	Title
A18799178	WHS Hazardous Substances HSA Fact Sheet

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5 February 2019

Anthony Wickens
Executive Branch Manager, Safety and Wellbeing

ACT Government
Transport Canberra and City Services

Work Health and Safety Hazardous Substance Spill Response Fact Sheet

Purpose

To inform managers, supervisors and workers about how to develop responses to a spill of a hazardous substance. This fact sheet supports the WHS Hazardous Substances Guideline, which contains more information about risk management and storage requirements.

This fact sheet does not address situations where a person comes into contact with a hazardous substance. The WHS Eyewash Station Fact Sheet and the WHS Emergency Shower Fact Sheet provide information about what to do in these circumstances.

Storage requirements

Storage arrangements are designed to minimise the hazards associated with leaks, spills and accidental mixing of incompatible chemicals.

The best way to manage the risk of a spill of a hazardous substance is to prevent it from occurring. Open containers, when not in use, is one of the main causes of spills and can also lead to generating hazardous atmospheres and fire risks. Managers and workers must ensure that containers are sealed when not in use. Safety procedures and training must re-enforce this requirement.

The storage of hazardous substances must ensure that substances from incompatible classes of chemicals are sufficiently separated so that the risk of them mixing is eliminated or minimised. Hazardous substances should be stored according to their reactivity and other properties. For example, acids and bases[1] are incompatible and must be stored separately, whereas sodium and potassium can be kept together as they are both water-reactive but do not react when stored together. Some hazardous substances are inherently unstable or highly reactive, or they can become unstable under certain conditions during use. This issue affects some hazardous substances that are dangerous goods. Contact between reactive substances can cause toxic fumes, a fire or could result in a serious explosion.

To keep hazardous substances stable, workplaces must:

- follow the manufacturer's instructions and information on the SDS;
- maintain specified proportions of ingredients, goods and other components, for example when mixing or diluting a hazardous substance;
- only decant a hazardous substance into an approved container;
- keep the hazardous substances within any control temperature range, where necessary; and
- keep the hazardous substances and the packaging dry, unless the packages themselves are impervious to moisture.

[1] Refer to the WHS Hazardous Substances Guideline for more information about hazardous substances.

Separating incompatible substances is one of the most important controls when storing hazardous substances. Separation techniques include using:

- distance;
- barriers;
- separate rooms;
- separate buildings; and
- external storage tanks.

The order of these separation techniques is not intended to reflect a hierarchy. When choosing separation techniques managers should consider your situation to determine the most appropriate controls for the workplace.

The Dangerous Goods Segregation Table can be used as a guide to the segregation of hazardous substances. Information about hazardous substances segregation is at section 16 of the Hazardous Substances Guideline. The workplace must obtain the SDS and use the segregation instructions included in section 10 and section 14 of the SDS.

The storage shelving for hazardous substances should be selected for the specific groups of substances being stored at the workplace. Chemical storage cabinets are usually designed to suit specific classes of chemicals. For example, acid cabinets consist of corrosion-resistant materials and sealing to prevent the leakage of fumes.

Work areas should always be kept neat and clean and regularly inspected for any hazards such as improperly cleaned spills or residue.

Hazardous substances must not be stored with food or in containers like drink bottles. Section 13 of the Hazardous Substances Guideline provides more information about storage of hazardous substances.

The structures or plant used for the storage or handling of hazardous substances must be:

- appropriately located and fixed to stable foundations to prevent damage from the movement of the structure or plant; and
- protected from the impact of mobile plant and equipment (depending on the nature of risk).

Measures to prevent the impact on hazardous substances contained in structures and plant may be required for:

- structures that contain large quantities of hazardous substances;
- plant and equipment, including storage and process vessels, associated pipe work, pumps and controls;
- storage areas (including transit storage) for packages, shelves and racks; and
- exposed parts of the fire protection systems.

The most effective ways to protect containers, pipework, pumps and attachments from impact is to locate the containers away from trafficable areas or prevent vehicle access. Installation of crash protection measures (such as bollards and guardrails) can also be used.

Where hazardous substances are stored in breakable containers (such as glass) the storage area (such as shelving) should be designed to prevent the accidental fall of the container.

Spill containment procedures

When a spill, leak or accidental release of hazardous substance occurs, appropriate actions must be taken to contain the hazardous substance within the workplace.

Workplaces must establish written spill containment procedures that describe how to contain, clean-up and dispose of the spill or leak and any resulting effluent.

The procedures must not create a hazard by bringing together different hazardous chemicals that are not compatible or that would react together to cause a fire, explosion, harmful reaction or evolution of flammable, toxic or corrosive vapour.

The workplace emergency procedures will also provide information about the emergency response and the evacuation arrangements in the event of a serious hazardous substance spill.

Designing a spill containment system

Spill containment can include double containment, bunding, drip trays and raised edges around work areas to contain a spill.

Any spill containment system should be large enough to ensure that all spills can be held safely until cleaned up. The factors to be considered when designing a spill containment system include:

- the nature of the hazardous substance (including its properties and whether it is a liquid or solid);
- the quantity of the hazardous substance;
- the size of the largest container or reasonably foreseeable largest spill;
- the potential impact if the hazardous substance escapes into the environment;
- the possible production of toxic gasses or any asphyxiation risk (including the use of alarms, such as a low oxygen alarm);
- whether it is necessary to provide for the management of firewater (water used in firefighting a fire at the hazardous substances storage location) at an incident;
- providing a separate spill containment for incompatible goods;
- the materials used to construct the containment system, as well as any materials used for absorption, are compatible with the hazardous substance;
- the other materials in the vicinity that will prevent contamination of groundwater or soil; and
- maintaining the system's integrity in any reasonably foreseeable incident.

Bunding may be required for large quantities of hazardous substances. Bunding should be designed and constructed in accordance with the relevant Australian Standard specific to the type of hazardous substance. For example, AS 1940: The storage and handling of flammable and combustible liquids provides information about the bunding requirement for diesel.

Spill kits

Spill kits must be selected that are specific for the hazardous substances at the workplace. The spill kit must be clearly labelled and located at an easily accessible location.

General spill kits should include:

- barrier/boom – to contain a spill;
- absorbent – suitable absorbent material;
- Neutralising reagents – sodium bicarbonate (acids) or boric acid (bases/alkalis);
- Gloves – gloves suitable for the chemicals used at the workplace;
- Specific PPE for the chemicals used (respirator, face shield);
- Waste containers - for example plastic bags or buckets; and
- Warning signs.

Any items that are contaminated as a result of a hazardous substances spill should be decontaminated or disposed of as hazardous waste if they cannot be decontaminated.

The regular workplace safety inspection must check that spill kits are in date and complete.

Induction and training

All workers who use hazardous substances must be instructed in the procedures for responding to a hazardous substance spill.

Hazardous substances spill response instruction for workers must include information about

- how the workers must not place themselves or other people at risk;
- how to evacuate the workplace and the emergency assembly point;
- how to respond to any alarm system (for example a low oxygen alarm);
- how to isolate and control access to the spill area;
- how and when to raise the alarm, communicate information to managers and supervisors and the emergency control organisation (ECO)/fire wardens (the ECO will telephone 000 to contact ACT Fire and Rescue if required);
- where SDS are kept (SDS must always be used as a reference when responding to a spill);
- the risk controls in the event that a hazardous substance produces toxic gasses or causes an asphyxiation risk;
- when and how to use chemical spill kits;
- how to neutralise any acids/base chemicals;
- how to clean up a spill, if it is safe to do so;
- how to contact specialised chemical clean up and disposal services; and
- the use of personal protective equipment (PPE) such as chemically resistant gloves, goggles, respirators, footwear and overalls/coats.

The workplace should periodically test the procedures for a hazardous substances spill in a hands-on drill.

The emergency planning committee should consider the frequency of testing the hazardous substance spill procedures in their emergency planning.

General spill responses

Substance	Recommended action
Organic chemical spill (organic chemicals that contain carbon, such as Formaldehyde and Benzene)	ALWAYS ensure personal protection equipment is worn. Use an absorbent such as vermiculate. Place spent vermiculite in a sealed labelled container for waste disposal by a licensed contractor. Flammable solvents can be cleaned up with absorbent rags and then placed in fully open headed drums that are sealed, suitably labelled.
Oxidising acid spill (Oxidising acids such, as nitric or sulphuric acid, which can oxidise with metal)	ALWAYS ensure personal protection equipment is worn. WARNING. DO NOT USE PAPER TOWELS OR SAWDUST TO CLEAN OXIDISING ACID SPILLS The safety data sheet must always be consulted when dealing with these types of spills, including: • the hazards of the chemical (including acute and chronic health effects); • reactivity information; • safety precautions for handling; and • specific information for dealing with spills.
Acid spill (such as citric acid)	ALWAYS ensure personal protection equipment is worn. If necessary, wear a P1 mask. For small spillages of acids, use dry sand or carbonate to contain spill. The area should be flushed with water but not to the extent that the spillage is spread unnecessarily. Neutralise an acid with sodium bicarbonate by sprinkling generously over spill. Spill kits for locations that store acids should contain soda ash (sodium bicarbonate) to sprinkle liberally over the spill.
Base/alkalis spill (such as ammonium hydroxide)	ALWAYS ensure personal protection equipment is worn. If necessary, wear a P1 mask. Contain the alkali spill using dry sand or neutraliser. Neutralise with boric or citric acid before clean-up. Residual alkali should be washed with water ensuring no contact. Spill kits for locations that store base/alkalis chemicals should contain boric acid to sprinkle liberally over the spill.

Substance	Recommended action
Diesel spill on soil, gravel or broken ground	Be aware of fumes and approach from upwind. ALWAYS ensure personal protection equipment is worn. Use absorbent booms, banks of soil, hoses or any safe objects to surround and prevent the spill from further impacting the environment. Often with spills on soil, little sideways movement occurs after the initial few moments. Unless the soil is extremely compacted or wet, the spill will soak directly into the ground. If the spill is near a water source or drain, the drain and access points must be blocked. Large pools of liquid may be absorbed with pillows, pads or particulate. These absorbents are then recovered for disposal. The remaining spill should then be covered with a layer of an organic absorbent, which is used to absorb any free liquid. If the type of soil allows, a rake can be used to help spread the absorbent material. Biological remediation is often used to break down fuels, oils and other hydrocarbon products naturally. It is essential to keep the area moist until the remediation is complete. This could be weeks or months, depending on the elements.

Incident reporting

All hazardous substances releases or spills must be reported in a work injury report (RiskMan) as a hazardous situation.

Any uncontrolled spill or leak of a substance is notifiable to WorkSafe ACT.

Document Information

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A18797376	WHS Hazardous Substance Spill Response Fact Sheet

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DATE APPROVED

5 February 2019

Anthony Wickens
Executive Branch Manager, Safety and Wellbeing

ACT Government
Transport Canberra and City Services

Work Health and Safety Eyewash Station Fact Sheet

Purpose

To inform managers and supervisors about the use of eyewash stations and the monthly safety checks that must be undertaken. This fact sheet supports the WHS Hazardous Substances Guideline and the WHS First Aid Guideline.

Eyewash station requirements

Eyewash stations provide on the spot decontamination to flush away hazardous substances or object in a person's eye.

Eyewash stations must be installed in areas where corrosive substances are used or where there is a risk of eye contamination. Eyewash stations must be on the same level and within 10 seconds of a hazardous area, that is the location where a worker is at risk of exposure to a corrosive substance. Where strong acids or base chemicals are used, the eyewash station must be adjacent to the hazardous area.

All workers are required to keep eyewash stations clear of obstructions, within 10 seconds of hazardous areas. This means that the pathway from the hazardous area to the eyewash station must be clear of obstructions, not just the immediate area around the eyewash station.

Plumbed eyewash stations must have a water flow rate of 1.5 litres per minute (L/min and water pressure of 210kPa for 15 minutes. Combined eye/face wash stations must deliver 11.4 L/min for 15 minutes.

Since eyewash nozzles face upwards to work properly, dust and other contaminates could fall into openings, clogging them or contaminating the equipment. The nozzles should be protected in such as way that does not prevent their immediate operation.

Personal eyewash bottles and drench hoses can be used to supplement, but not replace eyewash stations. Hand held drench hoses are useful in cases where the affected person is in a prone position or where the face is inaccessible. Eyewash bottles provide an immediate flushing of contaminates or small particles. Both these options must only be used until the affected person can be moved to an eyewash station.

Induction and training

All workers who may be exposed to hazardous substances must be inducted into the location and trained in the use of eyewash stations, including how:

- to properly activate the specific type of system;
- long to flush their eyes;
- to remove contact lenses, where required; and

- to hold their eyelids open and roll their eyeballs continuously.

Workers must also be trained in how to safely assist a person who needs to use the eyewash station.

The workplace should periodically test the procedures for using an eyewash station through a hands-on drill. The emergency planning committee should consider the frequency of eyewash drills in their emergency planning.

Testing and maintenance

Eyewash stations must be maintained and inspected in accordance with Australian Standard 4775-2007 Emergency eyewash and shower equipment: including:

- activating the eyewash station weekly for long enough to verify that it is operational;
- managers and supervisors undertaking a monthly inspection of the eyewash station using the checklist overpage; and
- an annual flow rate test by a licenced plumber.

Following the successful testing of the eyewash station the plumber must attach a compliance tag to the unit.

Records of the testing of eyewash stations must be retained for 7 years after last action.

Plumbed eyewash stations are the preferred equipment for fixed workplaces because of the volume of water required. Where self-contained eyewash equipment is used the manufacturer's and supplier's instructions for maintaining the equipment, including replacing the fluid, must be followed.

Defective equipment must be tagged out of service and repaired urgently.

Eyewash inspection checklist

Workplace name and location: **Location of eyewash station:** **Date:**	
Criteria	**Satisfactory (√) / unsatisfactory (X) / not applicable (NA)**
1. The eyewash station does not have any broken or damaged parts or leaks.	
2. Access routes to the eyewash station are free of obstructions and trip hazards. The eyewash station is within 10 seconds of a possible exposure.	
3. Workers have been inducted and trained in the use of the eyewash station.	
4. Protective eyewash covers, where used, are properly positioned, clean, intact and operate properly when activated.	
5. Aerators are in good condition and free of corrosion.	
6. The activation test has been conducted: • flush pipes and check that the spouts are clean (the flushing should be long enough to remove any rust or other pipe build up) • check that the water flow is effective and continuous - a test sock should be used to retain the water in the basin (Note: the streams of water from an eyewash station should generally not cross. If they do so, the pressure may be too high.) • operate the eyewash for long enough to verify operation and that the water runs clear **Clean up any water spills after the test.**	
7. The eyewash station delivers a soft flow to both eyes at the same time and the unit remains activated without the operator's hands.	
8. The valve actuator must activate in one second or less and stay on unless manually turned off.	
9. Where the eyewash station includes filters, they are correctly maintained.	
10. A drill of the procedures for using the eyewash station has been undertaken in the last 12 months.	
11. The eye wash station is well illuminated and identified by an appropriate sign. The sign must comply with AS1319 – 1994 Safety signs for the occupational environment.	
12. Witten procedure for the use of the eyewash station have been developed.	
13. Annual flow testing has been undertaken by a licenced plumber, the appropriate tag has been affixed to the eyewash station and a record of the testing is available.	
Note any item requiring attention:	
Name of person/s undertaking the inspection: **Signature:**	**Date:**

Document Information

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DATE APPROVED

5 February 2019

Anthony Wickens
Executive Branch Manager, Safety and Wellbeing

ACT Government
Transport Canberra and City Services

Work Health and Safety Emergency Showers Fact Sheet

Purpose

To inform managers and supervisors about the use of emergency showers and the monthly safety checks that must be undertaken. This fact sheet supports the WHS Hazardous Substances Guideline and the WHS First Aid Guideline.

Emergency shower requirements

Emergency showers must be provided where there is a risk of hazardous substances causing injuries.

Emergency showers provide sufficient water to provide on the spot decontamination of a person's head, body and/or clothing to flush away substances that can cause injury. Emergency showers can also be used to extinguish clothing fires and treat burns.

Immediate access (less than 10 seconds from the hazardous area) must be provided to an emergency shower in workplaces where there is a risk of:

- exposure to hazardous chemicals resulting in skin absorption or contamination from infectious substances; and
- serious burns to a large area of the face or body (including chemical or electrical burns or burns that are deep, in sensitive areas or greater than a 20 cent piece).

Where strong acids or base chemicals are used, a plumbed deluge facility emergency shower must be adjacent to the hazardous area.

A plumbed emergency shower must have a water flow rate of 75.7 litres per minute for 15 minutes.

Where possible, shower units should be sited in shaded areas so the water in them does not heat to temperatures that can cause further harm.

All workers are required to keep emergency showers and surrounding areas clear of obstructions. This means that the pathway from the hazardous area to the emergency shower must be clear of obstructions, not just the immediate area around the emergency shower.

Drench hoses can be used to supplement, but not replace emergency showers. Hand held drench hoses are useful in cases where the affected person is in a prone position or where the face is inaccessible. This option is only to be used until the affected person can be moved to an emergency shower.

For small, relatively low risk workplaces, where a fixed deluge facility would not be reasonably practicable, but the risk of serious burns is still foreseeable (for example, a deep fryer) a hand-held drench hose may be used.

Further guidance is available in Australian Standard 4775 – Emergency eyewash and shower equipment.

Induction and training

All workers who may be exposed to hazardous substances must be inducted into the location and trained in the use of emergency shower, including how:

- to properly activate the specific type of system;
- long to remain in the shower; and
- to remove contaminated clothing.

Workers must also be trained how to safely assist a person who needs to use the emergency shower.

The workplace should periodically test the procedures for using an emergency shower through a hands-on drill. The emergency planning committee should consider the frequency of emergency shower drills in their emergency planning.

Testing and maintenance

Emergency shower must be maintained and inspected in accordance with Australian Standard 4775-2007 Emergency eyewash and shower equipment: including:

- activating the emergency shower weekly for long enough to verify that it is operational;
- managers and supervisors undertaking a monthly inspection of the emergency shower using the checklist overpage; and
- an annual flow rate test by a licenced plumber.

Following the successful testing of the emergency shower the plumber must attach a compliance tag to the unit.

Records of the testing of emergency shower must be retained for 7 years after last action.

Plumbed emergency showers are the preferred equipment for fixed workplaces, because of the volume of water required. Where a self-contained emergency shower is used the manufacturer's and supplier's instructions for maintaining the equipment, including replacing the fluid, must be followed.

Defective equipment must be tagged out of service and repaired urgently.

Emergency shower inspection checklist

Workplace name and location: **Location of emergency shower:** **Date:**	
Criteria	**Satisfactory (√) / unsatisfactory (X) / not applicable (NA)**
1. The emergency shower does not have any broken or damaged parts or leaks.	
2. Access routes to the emergency shower are free of obstructions and trip hazards. The emergency shower is within 10 seconds of a possible exposure.	
3. Workers have been inducted and trained in the use of the emergency shower.	
4. The activation test has been conducted: • check that the water flow is effective and continuous (a test sock should be used to retain the water in a bucket) • operate the emergency shower for long enough to verify operation and that the water runs clear • the flushing should be long enough to remove any rust or other pipe build up. **Clean up any water spills after the test.**	
5. The unit remains activated without the operator's hands.	
6. The valve actuator must activate in one second.	
7. A drill of the procedures for using the emergency shower has been undertaken in the last 12 months.	
8. The emergency shower is well illuminated and identified by an appropriate sign. The sign must comply with AS1319 – 1994 Safety signs for the occupational environment.	
9. Witten procedure for the use of the emergency shower have been developed.	
10. Annual flow testing has been undertaken by a licenced plumber, an appropriate tag has been attached and a record of the test is available.	
Note any item requiring attention:	
Name of person/s undertaking the inspection: **Signature:**	**Date:**

Document Information

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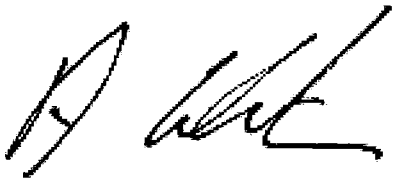

Anthony Wickens
Executive Branch Manager, Safety and Wellbeing

ACT Government
Transport Canberra and City Services

WHS Guideline

Hazardous Substances

Document ID	Title
A18892088	WHS Hazardous Substances Guideline

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Cherie Hughes
Chief Operating Officer

Table of Contents

1.0 Purpose

The purpose of this document is to provide all areas of Transport Canberra and City Services (TCCS) with guidelines for managing hazardous chemicals and dangerous substances and to comply with the:

- *Work Health and Safety Act 2011*;
- *Work Health and Safety Regulation 2011, Part 7;*
- *Dangerous Substances Act 2004;*
- *Dangerous Substances Regulation 2004*; and
- Work Health and Safety (Managing risks of hazardous chemicals in the workplace Code of Practice) Approval 2018.

2.0 Scope

This Hazardous Substances Guideline:

- explains what hazardous chemicals and dangerous substances are;
- explains the requirements for safety data sheets and labelling;
- details when a risk assessment is required for hazardous chemicals and dangerous substances;
- provides a step by step process to undertake a risk assessment;
- explains how the risk assessment can be documented;
- explains when placarding and manifests are required;
- explains when health monitoring is required;
- explains the emergency preparedness requirements for hazardous chemicals and dangerous substances;
- explains when the procedures for storing and disposing of hazardous chemicals and dangerous substances;
- explains the requirements for maintaining records of hazardous chemicals and dangerous substances; and
- highlights the responsibilities of designers, manufacturers and suppliers of hazardous chemicals and dangerous substances.

This guideline does not include the requirements for the transportation of dangerous goods, which is regulated State and Territory laws based on the requirements of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Asbestos is a hazardous substance and this guideline generally applies to the management of asbestos. However, the specific requirement for managing asbestos containing materials is included in the WHS Airborne Contaminated and Particulates Guideline.

3.0 Background

A chemical hazard is a set of inherent properties of the substance, mixture, article or process that may cause adverse effects to organisms or the environment.

The routes of entry into the human body of a substance can include:

- inhalation (breathing it in);
- skin contact;
- ingestion (swallowing it);
- eye contact; and
- injection through high pressure equipment.

Depending on the substance, the severity of the harm could range from minor to major, for example, from minor skin irritation to chronic respiratory disease. Some chemicals may not be hazardous by all routes of entry. For example, silica is hazardous only by inhalation. Knowing the route of entry enables the risk assessment to focus on how to control the risk, by preventing inhalation.

There are two broad types of hazards associated with hazardous chemicals, which may present an immediate or long-term injury or illness to people. These hazardous chemicals are regulated under the *Work Health and Safety Regulation 2011, Part 7.* The two types of hazardous chemical categories are explained in the table below.

Table 1 – Categories of hazardous chemicals

Category	Explanation
Health hazards	These are properties of a chemical that have the potential to cause adverse health effects. Exposure usually occurs through inhalation, skin contact or ingestion. Adverse health effects can be acute (short term) or chronic (long term). Acute health effects include headaches, nausea or vomiting and skin corrosion. Chronic health effects include asthma, dermatitis, nerve damage or cancer. A substance can have local effects, by only acting on the area of exposure, or systemic effects on the whole body, for example effecting organs by transmission through the blood stream.
Physicochemical hazards	These are physical or chemical properties of the substance, mixture or article that pose risks to workers other than health risks, as they do not occur as a consequence of the biological interaction of the chemical with people. They arise through inappropriate handling or use and can often result in injury to people and/or damage to property as a result of the intrinsic physical hazard. Examples of physicochemical hazards include flammable, corrosive, explosive, chemically reactive and oxidising chemicals.

Many chemicals have both health and physicochemical hazards.

Dangerous substances are defined as substances that have certain specific properties, such as asbestos or explosives. The most common of these are:

- explosives (refer to the Australian Explosives Code and Australian Dangerous Goods Code – Class 1 Explosives);
- fire risk dangerous substances:
    - flammable gases and liquids (such as LPG, propane gas and petrol);

  - combustible liquids (such as diesel fuel);
- security sensitive substances (containing security sensitive ammonium nitrate);
- gases kept under pressure (such as helium and nitrogen);
- asbestos in residential premises[1]; and
- corrosive substances (such as bleach and caustic soda).

The use, handling and storage of dangerous substances is regulated under the *Dangerous Substances Act 2004*.

For the purposes of this guideline the term hazardous substance is defined as any substance that can have either a short or long-term adverse effect on the health of people, animals or the environment. The term hazardous substance is used when the guideline refers to hazardous chemicals and dangerous substances together.

4.0 Objectives

TCCS must implement effective action to manage hazardous substances by:

- consulting with workers about the selection, use and storage of hazardous substances;
- applying risk management that;
  - ensures that the chemicals are purchased that have the lowest level of toxicity that is compatible with the requirement;
  - ensures that prohibited or restricted hazardous substances are not used;
  - ensures that risk assessments are undertaken for specific hazardous substances;
  - effectively applies the hierarchy of control;
  - ensures that no person in the workplace is exposed to a hazardous substance that exceeds the exposure standard (including checking the exposure standard on the Safe Work Australia Hazardous Chemical Information System);
  - ensures that chemical registers, hazardous substances manifests and placarding are in place;
  - analyses incident and injury data to identify hazards;
  - reviews hazardous substances management during inspection, review and audit processes;
- maintaining the working environment to:
  - ensure that the storage facilities for hazardous substances are appropriate, including managing compatibility and bunding;
  - ensure that work environments are designed and maintained to minimise exposure to hazardous substances, including ventilation and the correct use of fume hoods;

[1] Asbestos in workplaces is dealt with under the *Work Health and Safety Act 2011*.

- building skills and knowledge to:
    - ensure that safety data sheets (SDS) and labels are available and correct;
    - share information about hazardous substances and risk controls across TCCS workplaces;
    - ensure that workers have appropriate training and instruction in managing hazardous substances;
    - ensure that information about hazardous substances is properly recorded (in risk assessment templates, corrective action plans and risk registers) and reported to senior managers as required;
- establishing workplace emergency procedures that are:
    - designed to address the hazards that might arise from the presence of hazardous substances (including resources such as spill kits);
    - communicated to ACT Fire and Rescue if the workplace holds manifest qualities of hazardous substances; and
- implementing health monitoring when workers are exposed to specific hazardous substances.

5.0 Purchasing hazardous substances

The risk management process for a hazardous substance starts with the design process, manufacturing and supply (including procurement) of the hazardous substance.

As TCCS will generally not be a designer, manufacturer or supplier of a hazardous substance, TCCS risk management processes will usually commence with a procurement process. The WHS Procurement Guideline provides specific information for managing this process.

A manufacturer or importer must determine the hazards of a hazardous substance against specified criteria. This process is known as classification. The hazard classification determines what information must be included on labels and SDS, including the type of label elements, hazard statements and pictograms.

Manufacturers and importers are required to:

- provide labels and SDS; and
- review the information on them at least once every five years or whenever necessary to ensure the information contained in the SDS is correct, (for example, new information on a chemical may lead to a change in its hazard classification).

Before purchasing a hazardous substance, managers should consider the:

- the information in the SDS;
- hazards/risks associated with the use, handling, transport, storage and disposal of the hazardous substance;
- additional information provided by the manufacturer or supplier;
- alternatives to using a hazardous substance;
- if the chemicals being considered is the one that has the lowest level of toxicity that is compatible with the requirement;

- the requirements for disposing of the substance;
- the personal protective equipment (PPE) requirements;
- if health monitoring is required for workers who are exposed to the substance;
- if the quantities of the hazardous substance required will affect the manifest, workplace emergency plans and placard requirements; and
- required control measures, including the emergency procedures (if any) that are required.

The procurement process should produce a risk assessment arising from the process and consider the information provided by the designers, manufacturers and suppliers in the selection of a hazardous substance and its introduction to the workplace.

TCCS must take a wide range of actions to safely mange hazardous substances. New chemicals are being developed all the time and managers must be careful not to keep using a chemical because it is familiar. Managers must stay up to date with the availability of chemicals that can effectively substitute for hazardous substances. Some of the most important actions for managing hazardous substances take place before a hazardous substance enters the workplace, including:

- planning an activity or process to eliminate the requirement to use a hazardous substance; and
- properly researching the chemical products that are available for a task and select the one that has the lowest toxicity that is compatible with the requirement.

Examples:

1. Toluene is an aromatic hydrocarbon chemical that is colourless and is not soluble in water. It is primarily used to dissolve adhesives and in clean-up applications. It is classified as a hazardous chemical: Xi, Irritating; T, Toxic; N, Dangerous to the environment; and F+, Highly Flammable. While this hazardous chemical is commonly used, alternative processes and less hazardous chemicals are available for many applications.
2. CRC Contact Cleaner is a hazardous chemical that is widely used produce in workshops. This product is extremely flammable and can react to sparks, it contains hydrocarbons and has a category 3 warning for specific organ systemic toxicity. A less hazardous chemical, NF Contact Cleaner does the same job as the CRC contact cleaner yet is non-flammable and has no warnings for specific organ systemic toxicity.

6.0 Prohibited and restricted chemicals

Schedule 10 of the WHS Regulation lists the hazardous substances that are prohibited from use or restricted to a specified use. TCCS must not use any restricted or prohibited hazardous substance.

7.0 Safety data sheets

The first step in managing hazardous substances risks involves identifying all the chemicals and substances that are used, handled, stored or generated at the workplace.

The identity of chemicals in the workplace can usually be determined by looking at the label and the SDS, and reading what ingredients are in each chemical or product. In some cases, a chemical may not have a label or an SDS, for example where fumes are generated in the workplace from an activity such as welding.

All SDS documents supplied and used must be for the correct brand of the chemical (as the chemical compositions of products can vary), current and comply with the Global Harmonised System for classifying chemicals. All SDS must be less than 5 years old.

TCCS must obtain the SDS (and any amended version) for a hazardous substance from the manufacturer, importer or supplier no later than when the hazardous substance is first supplied at the workplace or as soon as practicable after it is first supplied but before it is used at the workplace.

The SDS contains information on the identity of the product and any hazardous ingredients, potential health effects, toxicological properties, physical hazards, safe use, handling and storage, emergency procedures, and disposal requirements specific to the chemical. Section 17 of this guideline provides more information about the contents of an SDS.

A paper SDS for each hazardous substance should be printed and made available where the hazardous chemical is used and stored.

8.0 Labels

All chemicals must be labelled. Hazard information must be included on the label. Some product labels do not contain all hazard information, for example, some consumer product labels, some agricultural and veterinary chemical products, where the label is too small to fit all relevant hazard information, or when hazardous chemicals that are dangerous goods are labelled to meet transport requirements. The SDS should be referred to when reading a label to ensure all hazards are identified.

Where a chemical is decanted from a larger container to a smaller one, the container must be of a type that meets the requirement of the SDS and it must be labelled correctly with the name and the product hazards as listed in the SDS. Decanting hazardous substances should be avoided if practicable alternative (such as purchasing chemicals in smaller containers can be used. Containers of chemical wastes also need to be labelled correctly.

If a container is located that does not have a label or is incorrectly labelled, action must be taken to correctly label the container. If the contents of the container are not known, this should be clearly marked on the container, for example:

'Caution - do not use: unknown substance.'

A drink bottle must never be used to store a chemical.

The container should be stored in isolation until its contents can be identified and, if it is then found to be hazardous, the container is appropriately labelled. If the contents cannot be identified, they should be disposed of in accordance with relevant ACT waste management requirements.

Table 2 shows examples of elements on a label that indicate the type of hazard and the severity of the hazard.

Table 2 Examples of hazard information on a label

Label element	Examples
Signal words These provide an immediate warning to the reader	Danger or Warning
Hazard statements These describe the nature and severity of the chemical hazard based on a chemical's classification	May cause cancer Fatal if inhaled Flammable liquid and vapour Causes severe skin burns and eye damage May cause respiratory irritation
Pictograms These provide a pictorial representation of the type of hazard that can be easily recognised at a glance	 Flammable  Acute toxicity  Warning  Human health  Corrosive

9.0 Exposure standards

Exposure to hazardous substances can occur through inhalation, absorption through the skin or ingestion. Most exposure occurs through the inhalation of vapours, dusts, fumes or gases. Absorption through the skin is also be a significant source of exposure for some chemicals, such as cement and chemical sanitisers (such as chlorine-based cleaners).

The body's response from exposure to hazardous substances depends on the nature of the substance, the health effects it can cause, and the amount of the hazardous substances absorbed by the body. Individuals also have differing abilities to metabolise chemicals, which can cause considerable variation in the toxic effects between people. The extent to which a person is exposed depends on the concentration of the substance or mixture in the air, the amount of time exposed and the effectiveness of controls. Substances and mixtures may cause immediate acute or local health effects, or it may be decades before effects on the body become evident.

Exposure standards represent the airborne concentration to a hazardous substance that must not be exceeded. Exposure standards are based on the airborne concentrations of individual substances that, according to current knowledge, should neither impair the health of, nor cause undue discomfort to, nearly all healthy workers.

Exposure standards have been established in Australia for approximately 700 substances and mixtures. However, there are many other substances and mixtures hazardous to human health and used in workplaces that do not have a mandatory exposure standard established. Exposure standards are updated occasionally and may not always reflect the latest research or state of knowledge on the hazardous effects of chemicals. Exposure standards do not identify a dividing line between a healthy or unhealthy working environment.

Therefore, exposure standards should not be considered as representing an acceptable level of exposure to workers. They establish a statutory maximum upper limit.

There are three types of exposure standard as shown in table 3.

Table 3 – Types of exposure standard (Safe Work Australia)

Type	Description
8-hour time-weighted average (TWA)	The average airborne concentration of a particular substance permitted over an 8-hour working day and a 5-day working week.
Peak limitation	A maximum or peak airborne concentration of a particular substance, determined over the shortest analytically practicable period of time, which does not exceed 15 minutes.
Short term exposure limit (STEL)	The time-weighted maximum average airborne concentration of a particular substance permitted over a 15-minute period.

Some people will experience adverse health effects as a result of exposure to a substance that is below the exposure standard. This is because of the natural biological variation between people and an individual person's susceptibilities, for example having asthma.

Chemicals with workplace exposure standards are listed in the *Workplace Exposure Standards for Airborne Contaminants*. These exposure standards are also available from the Hazardous Chemical Information System (HCIS) on the Safe Work Australia website. The HSIS database contains additional information and guidance for many hazardous substances. Although exposure standards may also be listed in Section 8 of the SDS, managers should always check the *Workplace Exposure Standards for Airborne Contaminants* or HCIS to confirm that the information is correct. Guidance on interpreting exposure standards is available in the Guidance on the Interpretation of Workplace Exposure Standards for Airborne Contaminants. Table 4 shows how the concentrations of hazardous substances are measured to assess the exposure level.

Table 4 – Measuring hazardous substances

Type	Measurement	Comments
Airborne concentrations of gases, vapours and particulate contaminants	Milligrams of substance per cubic metre of air, (mg/m^3)	Where both gravimetric (that is a quantity based on mass - mg/m^3) and volumetric values (that is a quantity based on volume - ppm) are quoted in a reference, the volumetric (ppm) value should be used, as its value is not affected by changes in temperature or pressure.
For gases and vapours	Usually indicated in parts per million (ppm) by volume	

It is important the airborne concentration of a hazardous substance is kept as low as is reasonably practicable to minimise the risk to health, regardless of whether or not there is an exposure standard or how high the exposure standard is.

10.0 Risk management

10.1 Identifying hazards

TCCS is required to manage the risks associated with hazardous substances in the workplace by following a systematic process of:

- identifying hazards;
- if necessary, assessing the risks associated with these hazards;

- eliminating or minimising the risks by implementing and maintaining control measures; and
- reviewing control measures to ensure they are effective.

When managing the risks, the following factors must be considered:

- the hazardous properties of the hazardous substance;
- any potentially hazardous reaction (chemical or physical) between the hazardous substance and another substance or mixture, including any by-products that may be generated by the reaction;
- the nature of the work to be carried out with the hazardous substance;
- any structure, plant or system of work that:
    - is used in the use, handling, generation or storage of the hazardous substance; and
    - could interact with the hazardous substance at the workplace.

The hazard identification process includes:

- using the information from an SDS, as discussed in section 6; and
- identifying any workplace processes that produce hazardous substances as by-products or waste.

Information on by-products may be available from a SDS, but not always. These hazards may not be easily identified when generated at the workplace, for example:

- hydrogen sulphide in a sewer;
- diesel exhaust fumes from truck engines;
- using of welding rods may produce toxic fumes and vapours;
- grinding metals and releasing toxic metal dust or fumes;
- off-gassing of solvent vapours from glues used to manufacture timber products such as medium density fibre (MDF); and
- dusts released from machining timbers.

The following sections look at the health and physicochemical hazards of hazardous substances. Many substances will have both health and physicochemical hazards and these risks will need to be considered together.

10.2 Risk assessment

TCCS must ensure that a risk assessment of a hazardous substance is undertaken and that all risk controls are in place before a hazardous substance is used. The risk assessment developed as part of the procurement process provides a starting point for this process. The information contained in the SDS is the next piece of information for the risk assessment process.

A risk assessment is required when a decision is made to purchase or use a new hazardous substance (or an existing hazardous substance has been identified that has not had a risk assessment) the project manager or workplace manager must ensure that a risk assessment is undertaken.

This guideline (and the supporting tools) has been developed to assist TCCS managers and workers to undertake risk assessments.

The risk assessment of the hazardous substance must consider the actual use proposed for the substance. In the event that TCCS decides to use a hazardous substance for a purpose that was not considered in the risk assessment, a new or updated risk assessment must be undertaken.

10.2.1 Step 1 – Decide who should undertake the risk assessment

The three options for a risk assessment include:

1. a simple risk assessment by one person based on the SDS, the way that the hazardous chemical will be used and the consultation with workers;
2. a more complex risk assessment by a team of people with a variety of skills to be collect and assess the information; and
3. a more complex risk assessment by a team of people including a subject matter expert and using air monitoring.

The manager responsible for purchasing a hazardous substance must consult the managers, supervisors and workers to determine the question about who should undertake the risk assessment. The information from the SDS is also important in determining the process for undertaking a risk assessment. The investment in the risk assessment

A risk assessment team should be used for hazardous substances that have a high level of toxicity and/or is new to TCCS workers. Risk assessment teams are most effective when they include:

- workplace managers or supervisors;
- workers and/or health and safety representatives;
- health and safety advisors; and
- external subject matter experts.

Risk assessments are based on a thorough understanding of what happens, or might happen, in the workplace and should be carried out by people who have:

- a practical understanding of the WHS Regulation, codes of practice and relevant guidance materials;
- an understanding of the work processes involved at the workplace
- information about the work area, for example ventilation; and
- enough resources to gather information, consult the appropriate people, review existing records and examine the workplace.

The people undertaking the assessment should be able to:

- interpret the information on the label and SDS of the hazardous chemical;
- observe the conditions of work and to identify potential problems;
- communicate effectively and consult with workers, contractors, managers and technical specialists;
- draw all the information together in a systematic way to form valid conclusions about exposures and risks; and
- accurately report the findings to all parties concerned.

External assistance from a subject matter expert may be required to:

- design an air monitoring strategy;
- collect and analyse samples;
- determine the if the exposure standards are exceeded;
- interpret monitoring and testing results; and
- assist in the design, installation and maintenance of control measures, such as ventilation systems or fire protection systems.

10.2.2 **Step 2 – Undertake the risk assessment**

The assessment of health risks from hazardous substances involves gaining an understanding of the situations where people can be exposed to, or come into contact with the chemicals, including the extent of exposure and how often this can occur. Health risk depends on hazard severity and level of exposure, and thus depends on both the type of chemical and also the nature of the work itself.

The risk assessment must consider:

- the information from the SDS and other relevant sources;
- the type of hazard, for example, hazard classifications of carcinogenicity, sensitisation, acute toxicity (SDS section 2);
- the relevant routes of exposure, for example, inhalation, ingestion, skin contact (SDS section 4 and 11);
- the physical form and concentration of the substance [some substances may be virtually harmless in some forms (for example, a granulated solid chemical) but may be very hazardous in another form (for example, fine dust particles or fumes - SDS section 11)];
- the concentration of hazardous ingredients (SDS section 3);
- the chemical and physical properties of the substance [gases or liquids with low boiling points or high vapour pressures can give rise to high airborne concentrations in most circumstances, whereas high boiling point liquids such as oils are only likely to create a hazardous airborne concentration if they are heated or sprayed. Chemicals with a very low or high pH (for instance, acids and caustics respectively) are corrosive to the skin and eyes (SDS section 9)];
- who could be exposed (for example, people who work with it directly, or who enter an enclosed space or are visitors to the workplace)
- how often is the exposure likely to occur and how long is the likely exposure [which work activities involve routine and frequent exposure to hazardous chemicals (for example, daily exposure, including during end of shift cleaning)];
- foreseeable failures of plant, equipment, storage systems (including where decanting may be required);
- natural disasters or extreme weather events;
- the presence of incompatible materials, which could react with the chemicals being stored or handled (SDS section 9); and
- the estimated exposure.

An estimation of the amount of exposure to hazardous substances can sometimes be obtained by observation. The following can provide an indication of the presence of hazardous substances:

- evidence of fine deposits on people and surfaces;
- the presence of dusts, mists or fumes visible in the air (for example, in light beams); and
- or the presence of odours.

An indication of the airborne concentrations of hazardous chemicals can often be obtained by simple tests, such as indicator tubes or dust lamps. However, in most cases the amount of exposure may vary throughout the day, so such tests may not establish workers' exposure with confidence and it will be necessary to undertake detailed air monitoring. For chemicals that present a very high hazard, air monitoring by a subject matter expert must be considered to determine the level of exposure.

10.2.3 Step 3 – Consider using air monitoring as part of the risk assessment

Section 50 of the WHS Regulation requires TCCS to undertake air monitoring if it is not certain whether or not the concentration of an airborne contaminant exceeds the relevant exposure standard or to determine if there is a risk to health. Air monitoring will be required where there is doubt that the exposure controls have been effective and to determine whether an exposure standard is being exceeded. Expert advice may be required to determine if compliance with exposure standards is being achieved without undertaking air monitoring.

Air monitoring can also be used to:

- help to choose the best exposure minimisation controls;
- check that existing controls are working effectively;
- choose the right level of respiratory or personal protective equipment if other controls do not eliminate or sufficiently minimise exposure;
- check exposure levels after a process or production method has changed;
- determine whether health monitoring for workers is required;
- investigate complaints by workers; and
- determine if workers that have been or are being exposed to hazardous substances.

Compliance with an exposure standard can be demonstrated only when the exposure of individual workers or groups of workers is known, with an accepted degree of certainty, to be below the exposure standard.

Air monitoring to check compliance with the exposure standard should be conducted:

- after controls have been put in place;
- by an occupational hygienist; and
- with a sufficient number of exposure measurements, often involving a number of workers.

10.2.4 Step 4 – Consider specific risk information

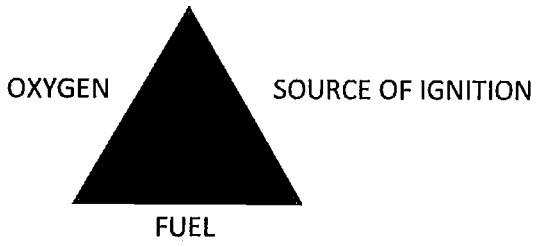
10.2.4.1 Risk assessment of physicochemical risks

The assessment of physicochemical risks focusses on the consequences of hazardous substances where they come into contact with other things, such as an ignition source.

Fire and explosion can result in catastrophic consequences, causing serious injuries or death of workers, as well as significant damage to property and occurs when the following three primary elements come together (commonly referred to as the fire triangle – see Figure 1):

- a source of fuel (a flammable or combustible hazardous substance);
- a source of oxygen (usually in the air); and
- an ignition source (a source of energy sufficient to cause ignition).

Figure 1 - Fire triangle



The risk assessment of hazardous substances must identify all of the sources of fuel in the workplace that could contribute to a fire or explosion.

Fuels that present the highest risks are:

- hazardous chemicals that are flammable (for example, flammable solids, liquids or gases, including their vapours and fumes);
- fire risk substances in other hazard classes (for example, pyrophoric liquids and solids that ignite spontaneously in contact with air);
- substances that react with water to emit flammable gasses); and
- other materials that are not hazardous chemicals, such as wood, paper, leaves, and other combustible materials that contribute to the fire load.

The risk assessment should also identify sources of oxygen, such as oxygen gas and compressed air in cylinders, chemical oxidisers and peroxides. Oxygen is always present in the air. A list of common fuel and oxygen sources are listed in Appendix H of the Work Health and Safety (Managing risks of hazardous chemicals in the workplace Code of Practice) Approval 2018.

Chemical reactions and other processes which generate gases can also cause explosions through an increase in the pressure in the container when the gas cannot escape, even if the gas itself does not ignite.

Ignition sources can be any energy source that has the potential to ignite a fuel. They can be categorised into three broad types; flames, sparks and heat.

Some electrical and mechanical equipment may also be a source of ignition. Sparks can also be created by the build-up and discharge of static electricity. However, not all electrical equipment is an ignition source. Some electrical equipment is specifically designed to prevent the creation of exposed sparks. This type of equipment is referred to as "intrinsically safe".

The risk assessment must identify any ignition source that has the potential to ignite a flammable or combustible material. The risk assessment must also consider sources of ignition that are adjacent to your workplace or may periodically come into your workplace, for

example vehicles (with hot engine and exhaust systems) making deliveries, visitors or other portable items such as cordless power tools, radios and fans.

10.2.4.2 Spray painting

Exposure to hazardous chemicals is a significant risk in spray painting and powder coating activities including during preparation (preparing surfaces, tinting, mixing and pouring paints), storage, clean-up and disposal.

Spray painting including electrostatic spray painting, is a process by which liquid paint is applied under pressure to an object. Spray painting may be carried out by hand or automatically.

The Work Health and Safety (Spray Painting and Powder Coating) Code of Practice 2015 (although not adopted under the WHS Act 2011) provides practical guidance for managing this risk and must be followed for spray painting work in TCCS.

The hazardous chemicals that workers may be exposed to in spray painting include paints, solvents, powders, lacquers, paint strippers, adhesives, surface preparation products, rust converters and rust removers. Many chemicals that are used in spray painting, including 2-part polyurethane paints containing isocyanates and toluene (an ingredient in many oil-based paints), and in powder coating, such as triglycidyl isocyanurate, hydrofluoric acid and chromic acid are known to present significant health risks and should be assessed as high risk. The product label and SDS will identify any hazardous substances.

The risk assessment process for spray painting must also identify any dusts or fumes generated by sanding and surface preparation. For example, sanding of polyurethane paints that are not fully cured can generate dust containing unreacted isocyanates which can lead to long term respiratory problems.

Spray painting hazardous chemicals must be conducted in spray booths, except where it is not practical to do so or where the work is of a minor nature.

Spray booths must be designed and built to comply with Australian/New Zealand Standard 4114.1:2003 – Spray painting booths, designated spray painting areas and paint mixing rooms – Design, construction. Spray booths must be tested, regularly checked and maintained.

A spray booth should have effective exhaust capture and filtration systems and must be able to maintain an average air flow rate (measured when the booth is empty) of at least:

- 0.3 metres/second (m/s) for full down draught booths;
- 0.4 m/s for electrostatic spray-painting booths; and
- 0.5 m/s for any other booth.

Spray painting also has a risk of injection injuries, where paint is injected into the body. Most injection injuries occur through the use of high pressure airless spraying equipment. Paint injected into the body can cause a lack of blood supply to the area, or cause chemical or thermal burns. Solvents and other substances may be injected in sufficient quantities to cause symptoms affecting the whole body. Injection injury control measures include:

- using a tip guard on the spray gun;
- using a spanner to tighten the tip guard or when clearing a blocked reversible spray tip; and
- ensuring the spray gun has a functional trigger-lock.

All workers with injection injuries should be referred for immediate medical treatment.

The risk management process described in this guideline must be applied to spray painting activities.

10.2.4.3 Corrosive substances

Hazardous substances that are corrosive to metals can cause damage to plant and equipment, such as containers, pipes, fixtures and fittings. Corrosion can lead to leaks or complete failure and loss of containment of the chemical, resulting in serious damage to property, exposure of workers to the hazardous chemicals and potential injury and death.

10.2.4.4 Asphyxiation hazards

Asphyxia is a condition that occurs where there is lack of oxygen. This can occur either through:

- consumption of oxygen in the air (burning of fuel, or oxidation process such as microbial activity or rusting);
- low oxygen environments due to gases displacing the air; and/or
- inhalation of the chemical affecting the ability of the body to use oxygen.

All gases, including fuel gases (for example, hydrogen, acetylene and liquid petroleum gas) and inert gases (for example, helium and nitrogen) are an asphyxiation hazard in high concentrations.

Too little oxygen in the air can cause fatigue and in extreme cases death. Using compressed and liquefied gases can result in dangerously low levels of oxygen, especially in confined spaces or areas without sufficient ventilation. For example, gases that are heavier than air can accumulate in low lying areas such as pits, wells and cellars and gases that are lighter than air can accumulate in high areas such as roof spaces and lofts. Working in an enclosed or confined space with inadequate ventilation, where hazardous vapours can accumulate, is a potential asphyxiation hazard.

In welding and allied processes, asphyxiation can occur from gas slowly leaking in a work area. The WHS Confined Space Procedure details the requirements for managing the risk of exposure to contaminates and low oxygen environments when a person enters a confined space.

10.2.4.5 Compressed air

Compressed air can be hazardous and should be handled carefully by workers. The risk includes:

- the sudden release of gas can cause hearing damage or even rupture an eardrum; and
- compressed air can deeply penetrate the skin resulting in an air bubble in the blood stream known as an embolism (even a small quantity of air or other gas in the blood can be fatal).

Workers must be trained to handle compressed air properly and work procedures must emphasise the safe use of air tools and safeguard against the deliberate misuse of compressed air.

Maintaining air receivers properly is important to prevent the potential for an explosive rupture.

Workers must inspect all compressed air hoses for damage prior to use.

10.2.5 Step 5 - Document the risk assessment

The WHS Risk Assessment Form (which supports the WHS Risk Management Guideline) should be used, to record the risk assessment and recommend risk control measure for approval.

Some software systems for managing chemicals have electronic risk assessment tools for hazardous substances that can be used in place of a WHS Risk Assessment Form.

10.3 Risk controls

The individual or team undertaking a risk assessment must provide the risk assessment to the TCCS manager who is responsible for the workplace or business unit.

The manager:

- may need to consult with workers and health and safety representatives/health and safety committees about the outcome of the risk assessment;
- may seek advice from the Safety and Wellbeing Branch;
- may discuss the recommended risk controls with the person or team that undertook the risk assessment;
- will make a decision about the risk controls that will be implemented;
- have the risk assessment approved in accordance with the level of risk; and
- will approve the job safety analysis or safe work method statement.

10.3.1 Hierarchy of control

If it is not reasonably practicable to eliminate the risk, then TCCS must minimise the risks so far as is reasonably practicable by:

- substituting the hazard with something that gives rise to a lesser risk;
- isolating the hazard from any person exposed to it; and/or
- implementing engineering controls.

If there is a remaining risk, it must be minimised so far as is reasonably practicable by implementing administrative controls, and if a risk still remains, then suitable personal protective equipment must be provided and used. In practice many risks require control measures to be implemented at all levels of the hierarchy. Table 5 provides examples of risk controls. This means that level 3 risk controls, such as training and PPE, will often be required in addition to level 2 risk controls, to minimise the risk.

Where the hierarchy of risk control is applied to a hazard, this can be recorded on a WHS risk assessment form.

Table 5 – Hierarchy of control and examples

Hierarchy of control		Examples of control measures
Level 1	Elimination	• Use mechanical fastenings rather than chemical-based adhesives. • Eliminating potential exposure by purchasing pre-mixed or diluted chemicals, instead of manually mixing chemicals.
Level 2	Substitution	• Substitute a hazardous substance with a non-hazardous substance. • Using diluted acids and alkalis rather than concentrates. • Using a product in either paste or pellet form rather than as a dust or powder. • Using water-based paints rather than an organic solvent-based paint.

	Isolation	• Using a closed system for the processing and transfer of flammable liquids. • Placing a process within an enclosure with an exhaust extraction. • Distancing workers from hazardous substances. • Conducting all spray painting in a spray booth. • Isolating hazardous substances from other substances using barriers and/or distance.
	Engineering	• Use intrinsically safe electrical equipment (to reduce the ignition sources). • Using robots for tasks. • Using ventilation booths or fume cupboards. • Using local exhaust ventilation.
Level 3	Administrative	• Reducing hazardous substance inventories. • Reducing ignition sources. • Keeping containers closed when not in use. • Using spill kits. • Rotating workers between different tasks. • Providing washing facilities, including eye wash facilities. • Developing standard operating procedures. • Training workers in the safety procedures.
	Personal protective equipment	• Chemical resistant gloves. • Full face air fed respirators.

Section 18 of the WHS Act requires that risk is reduced as far as is reasonably practicable with regards to:

- the likelihood of the risk occurring;
- the degree of harm that might result;
- what TCCS knows (or ought to know) about the risk and the ways of eliminating or minimising the risk;
- the availability and suitability of ways of eliminating or minimising the risk; and
- after considering the extent of the risk and the ways of eliminating or minimising the risk – the cost associated with the ways of eliminating the risk, including whether the cost is grossly disproportionate to the risk.

The risk controls for hazardous substances must be incorporated into the relevant written work health and safety documents for the business unit, including safe work method statements (SWMS) and job safety analysis (JSA) documents. The risk assessment may also have an impact on the workplace emergency plan (refer to section 15).

The approved risk controls can be recorded in the WHS Risk Assessment Form and a corrective action plan and the implementation tracked through to completion. Where workers undertake

- high risk construction and maintenance work, the hazards, risk controls and safety procedures for the work must be detailed in a SWMS; or

- tasks (other than high risk construction and maintenance work) that have hazards, a JSA must be used to document the hazards, risk controls and safety procedures.

Standard operating procedures are used to detail the safe operation of plant and equipment, including any hazardous substances that are associated with its use.

10.4 Review of risk controls

The WHS Risk Management Guideline explains that TCCS is required to maintain up to date information about hazards and obtain updates from manufacturers and suppliers to make sure risk controls are still relevant. Changes to operating conditions or the way activities are carried out may also mean that control measures need to be updated.

The guideline provides information about the circumstances and timeframes that should trigger a review of the risk controls used for hazardous substances.

11.0 Using non-hazardous chemicals or domestic chemicals in the workplace

Chemicals that are not listed as a hazardous substance do not require a formal risk assessment. However, risk controls are required for their use in the workplace.

Chemicals (such as cleaning products) are not generally listed as a hazardous chemical or substance. However, chemicals used in the workplace may present risks depending on the manner and quantities in which they are used. The label directions for any chemical must be followed.

If a chemical is used in the workplace differently to its normal use, TCCS must also obtain the SDS for the chemical, in order to determine the level of risk to workers and the appropriate controls. The SDS will contain more detailed information on hazards and risks, for example on incompatibilities with other chemicals and risks from use in enclosed areas.

12.0 Registers, manifests and placards

12.1 Chemical registers

TCCS must maintain a chemical register at each workplace. The register:

- must list all the chemicals in the workplace;
- must be readily accessible to workers and to anyone else who is likely to be affected;
- list the product names of all chemicals used, handled or stored at the workplace;
- identify if the chemical is categorised as a hazardous chemical;
- be accompanied by the current SDS (one that is not more than five years old) for each hazardous chemical listed; and
- must be updated as new chemicals are introduced to the workplace or when the workplace stops using a chemical.

The chemical register can be either electronic or paper based. Where an electronic chemical management system (for example MSDS.com or an Excel spreadsheet) is used, workers must be provided with information about how to access the system.

The chemical register must be available at the workplace where the chemical is stored.

A paper SDS for each hazardous substance should be printed and made available where the hazardous chemical is used and stored.

12.2 Hazardous substances manifests

TCCS is required to maintain a manifest of hazardous substances (and excluding non-hazardous chemicals) at a workplace where the quantities of those hazardous substances exceed the prescribed threshold amounts listed in schedule 11 of the WHS Regulation. For example, a manifest is required for 5,000l of flammable gases. The manifest qualities of hazardous substances is calculated using the total qualities of each class of substance, not the individual substance. Where workplaces have smaller amounts of substances at different locations at the workplace, the total amount must be added together to check the requirement for a manifest.

A manifest:

- is a written summary of specific types of hazardous substances with physicochemical hazards and acute toxicity that are used, handled or stored at a workplace and is different from a chemical register;
- contains more detailed information than a register of hazardous chemicals;
- contains information such as site plans and emergency contact details; and
- has the primary purpose of providing ACT Fire and Rescue with information on the quantity, classification and location of hazardous chemicals at the workplace.

The hazardous substances manifest must comply with the requirements of Schedule 12 of the WHS Regulation and it must be updated as soon as practicable after any change to the amount or types of substances being used, stored, handled or generated at the workplace.

Worksafe ACT provides information about how to calculate the quantities of a hazardous substance for the manifest.

Where the workplace holds a manifest quality of a hazardous substances, TCCS must notify WorkSafe ACT by contacting the Dangerous Substances Licensing unit of Access Canberra on 13 22 81 or by email to DangerousSubstances@act.gov.au. Also refer to the information on Workplace Emergency Plans at section 15.

12.3 Placards

Placards are also used to provide ACT Fire and Rescue with information about the presence of hazardous substances in the workplace that exceed the specified qualities, which are usually lower than the manifest quantities.

Placards are special types of signage required at workplaces that store hazardous chemicals above the placard quantities. Placards provide warnings about the stored hazardous chemicals at the workplace.

The different types of placards include:

- outer warning placards;
- placards for packaged goods; and
- bulk storage placards.

Placards must conform to the requirements of the Schedule 13 of the WHS Regulation and be prominent, legible and kept up-to-date.

13.0 Storage, spills and disposal

13.1 Storage of hazardous substances

Safe storage arrangements are designed to minimise the hazards associated with leaks, spills and accidental mixing of incompatible chemicals.

The storage of hazardous substances must ensure that substances from incompatible classes of chemicals are sufficiently separated so that the risk of them mixing is eliminated or minimised. Hazardous substances should be stored according to their reactivity and other properties. For example, acids and bases are incompatible and must be stored separately, whereas sodium and potassium can be kept together as they are both water-reactive but do not have any added hazard when placed with one another.

Some hazardous substances are inherently unstable or highly reactive, or they can become unstable under certain conditions during use. This issue affects some hazardous substances that are dangerous goods.

To keep hazardous substances stable, workplaces must:

- follow manufacturer's instructions or instructions on the SDS;
- maintain specified proportions of ingredients, goods and other components that constitute the hazardous substance;
- keep the hazardous chemicals within any control temperature range, where necessary; and
- keep the hazardous chemical and the packaging dry, unless the packages themselves are impervious to moisture.

Separating incompatible chemicals is one of the most important controls when storing hazardous chemicals. Separation techniques include using:

- distance;
- barriers;
- separate rooms;
- separate buildings; and
- external storage tanks.

The order of these separation techniques is not intended to reflect a hierarchy. When choosing separation techniques managers should consider the specific situation to determine the most appropriate controls for the workplace. The Dangerous Goods Segregation Table can be used as a guide to the segregation of hazardous substances. Information about hazardous substances segregation is at section 16 of this guideline. The workplace must obtain the SDS and use the segregation instructions included in the SDS.

The storage shelving for hazardous substances should be selected for the specific groups of substances being stored at the workplace. Chemical storage cabinets are usually designed to suit specific classes of chemicals. For example:

- Acid cabinets consist of corrosion-resistant materials and sealing to prevent the leakage of fumes.

- Flammable solvent cabinets are produced from specialized wood or metal able to resist fire for at least 30 minutes.

Work areas should always be kept neat and clean and regularly inspected for any hazards such as improperly cleaned spills or residue.

Hazardous substances must not be stored with food or in containers like drink bottles.

Some hazardous substances may have an expiry date on the label and SDS. Some hazardous substances will degrade over time and cause a hazard.

Where a chemical has passed its expiry date, it must not be used, and must be disposed of in accordance with manufacturer's instructions and ACT legislation.

The structures or plant used for the storage or handling of hazardous substances must be appropriately located and fixed to stable foundations to prevent damage from the movement of the structure or plant.

The action required to preventing or control the impact on a plant or structure depend on the nature of risks. Impact protection measures may be necessary for:

- structures containing large quantities of hazardous chemicals;
- plant and equipment including storage and process vessels, associated pipe work, pumps and controls;
- storage areas (including transit storage) for packages, shelves and racks; and
- exposed parts of the fire protection systems.

The most effective ways to protect containers, pipework, pumps and attachments from impact is to locate the containers away from trafficable areas or prevent vehicle access. Installation of crash protection measures (such as bollards and guardrails) can also be used.

13.2 Containing spills

When a spill, leak or accidental release of hazardous substance occurs, appropriate actions must be taken to contain the hazardous substance within the workplace.

Workplaces must establish written spill containment procedures that describe how to contain, clean-up and dispose of the spill or leak and any resulting effluent. The procedures must not create a hazard by bringing together different hazardous substances that are not compatible or that would react together to cause a fire, explosion, harmful reaction or evolution of flammable, toxic or corrosive vapour. The workplace emergency procedures will also provide information about the emergency response and the evacuation arrangements in the event of a serious spill.

Leaving containers open, when not in use, is one of the main causes of spills and can also lead to generating hazardous atmospheres and fire risks. Where hazardous substances are stored in breakable containers (such as glass) the storage area (such as shelving) should be designed to prevent the accidental fall of the container. Managers and workers must ensure that containers are sealed when not in use and the safety procedures and training should re-enforce this.

Any spill containment system should be large enough to ensure that all spills can be held safely until cleaned up. Factors to be considered when designing a spill containment system include:

- the nature of the hazardous substance (whether liquid or solid);
- the quantity of the hazardous substance;

- the size of the largest container or reasonably foreseeable largest spill;
- the potential impact if the hazardous substance escape to the environment;
- whether it is necessary to provide for the management of firewater at an incident;
- providing a separate spill containment is provided for incompatible goods;
- the materials used to construct the containment system, as well as any materials used for absorption, are compatible with the hazardous substance;
- the other materials in the vicinity that will prevent contamination of groundwater or soil; and
- maintaining the system's integrity in any reasonably foreseeable incident.

Bunding may be required for large quantities of hazardous substances. Bunding should be designed and constructed in accordance with the relevant Australian Standard specific to the type of hazardous substance. For example, AS 1940: The storage and handling of flammable and combustible liquids provides information about the bunding requirement for diesel.

Where manifest quantities of a hazardous substance present in the workplace TCCS should consult with ACT Fire and Rescue with respect to the workplace emergency plan.

All hazardous substances releases or spills must be reported in a work injury report (RiskMan) as a hazardous situation. Any uncontrolled spill or leak of a substance is notifiable to WorkSafe ACT.

13.3 Transfer of hazardous substances

Transferring hazardous substances generally presents a far greater risk than for static storage. During the transfer process, the substances will frequently be unconfined at some stage of the transfer process, for example pouring or pumping from one container to another. Transfer is any process where the substance is moved from one container to another, for example from a tanker to a fuel store or a from a bulk container to a spray pack.

Methods for eliminating or reducing risks during transfer operations include:

- avoiding spillage or overflow, including overflow protection on equipment and receiving vessels;
- providing emergency shut-offs to limit the amount of hazardous substances released during a loss of containment;
- providing a spill containment system;
- reducing static electricity and vapour generation (this is particularly important for fire risk hazardous chemicals such as flammable liquids);
- ensuring transfer fittings are compatible;
- avoiding sources of ignition;
- installing flow and pressure regulators on pipe work or pumps;
- installing interlocking of valves and switches; and
- implementing systems for detecting losses from pipe work and fittings.

Plumbed eye wash stations and safety showers should be installed in areas where workers may be exposed in the event of a spill during transfer operations.

13.4 Storage and handling of gas cylinders

Gas cylinders should be fitted with a bursting disc safety device and liquid petroleum gas cylinders should have an operational spring-loaded pressure relief valve.

Key considerations for safe storage and handling of gas cylinders include:

- maintaining and regularly checking cylinders, regulators, hoses and pipes to cylinders to ensure that there are no leaks or dents;
- storing cylinders outdoors or in very well-ventilated areas and in an upright position to ensure the safety device functions correctly;
- securing cylinders to prevent dislodgement;
- transporting cylinders with appropriate equipment such as trolleys or gas cages;
- keeping the cylinder valve closed when the cylinder is not being used; and
- keeping all sources of heat and ignition away from gas cylinders, even if the cylinders do not contain flammable material.

If a small leak occurs, the cylinder valve should be closed, if it is safe to do so. Appropriate PPE should be put on before attempting to locate the leak point. For toxic gases, self contained breathing apparatus may be required for emergency use. The area should be well ventilated and air conditioning systems should be turned off to avoid spreading gas. However, if a large amount of gas escapes, the area should be evacuated. If it is safe to do so, before evacuating, ventilate the area and remove or isolate ignition sources. Contact the gas supplier for advice, or in an emergency, contact ACT Fire and Rescue.

Potential risks associated with the transport and storage of small gas cylinders (for example acetylene and LPG) in vehicles must be also managed in accordance with the ACTPS Safety Alert Use, Storage, Maintenance and Transport of LPG Gas Bottles.

A range of Australian Standards provide further information relating to controlling risks from compressed and liquefied gases, such as Australian/New Zealand Standard 1596: The storage and handling of LP Gas, and Australian Standard 4332: The storage and handling of gases in cylinders.

13.5 Disposal of hazardous substances

Hazardous substances must be disposed of by an registered waste disposal company. The ACT Government provides information on hazardous waste disposal.

14.0 Health monitoring

For some hazardous chemicals, health monitoring may also be required to assess risks to workers who may be exposed. Health monitoring, which may include biological monitoring, takes into account all routes of exposure and not just exposure by inhalation of airborne contaminants.

Schedule 14 of the WHS Regulation lists the hazardous substances where exposure to a worker requires TCCS to establish a health monitoring program. As at September 2018, TCCS has not identified any chemical in use that requires health monitoring.

Generally, the use of hazardous substances that require health monitoring should be avoided. However, hazardous substance use will vary over time and health monitoring requirements must be checked for any new hazardous substance.

Where required, health monitoring will be undertaken by a registered medical practitioner with specialist training and experience in health monitoring. A health monitoring report will be provided to the worker and retained for 75 years after the worker's date of birth.

The health monitoring report may require additional action if:

- test results indicate that the worker has been exposed to the chemical and has an elevated level of the chemical or its metabolites in his or her body for that hazardous chemical;
- advises the worker is suffering a disease, injury or illness as a result of the exposure;
- recommends you take remedial action; or
- advises medical counselling is required.

Business units should contact the Safety and Wellbeing Branch for advice if a health monitoring report raises any of these issues.

15.0 Workplace emergency plans

Regardless of controls put in place to prevent incidents occurring in your workplace, they can still occur. For example, people can be exposed to chemicals and require immediate medical treatment, a fire can start or a loss of containment can occur.

The WHS Workplace Emergency Plan Guideline provides information about the development of emergency plans and procedures.

TCCS workplaces that store or handle significant quantities of hazardous substances should provide a copy of workplace emergency plans to neighbouring sites to assist coordinating any emergency response.

16.0 Safety data sheet information

The SDS will provide structured information in the following sections:

- Section 1—Identification: product identifier and chemical identity;
- Section 2—Hazard(s) identification;
- Section 3—Composition and information on ingredients;
- Section 4—First aid measures;
- Section 5—Firefighting measures;
- Section 6—Accidental release measures;
- Section 7—Handling and storage, including how the chemical may be safely used;
- Section 8—Exposure controls and personal protection;
- Section 9—Physical and chemical properties;
- Section 10—Stability and reactivity;

- Section 11—Toxicological information;
- Section 12—Ecological information;
- Section 13—Disposal considerations;
- Section 14—Transport information;
- Section 15—Regulatory information; and
- Section 16—Any other relevant information.

Important hazard information to note from the SDS is listed in Table 6.

Table 6 Important hazard information to note from the SDS

SDS Information	Description
Hazard classification	This information will be present on the SDS in the form of hazard statements, for example 'may cause cancer' or 'flammable liquid'.
The route of entry	This information is important as it lets you assess the health risks to your workers. Routes of entry can include inhalation (breathing it in), skin contact, ingestion (swallowing it), eye contact and injection through high pressure equipment. Depending on the substance, the severity of the harm could range from minor to major, for example, from minor skin irritation to chronic respiratory disease. Some chemicals may not be hazardous by all routes of entry. For example, silica is hazardous only by inhalation so the risk assessment needs to consider how inhalation could occur in the workplace.
Advice or warnings for at-risk workers	The SDS may also include summaries of toxicological data, or advice or warnings for people that might be at risk, such as: • people who are sensitised to particular chemicals • warnings for pregnant women • people with existing medical conditions such as asthma.
Instructions on storage	This may include advice on certain materials that are incompatible when storing the chemical, or advice on potential hazardous degradation products. Examples include—storage of acids and bases; storage of ether for extended periods to avoid formation of explosive peroxides.
Physical properties	Physical properties can have a significant effect on the hazard. Some key properties to note include: • physical state: is it solid, liquid or gas? • if solid—what is the potential for dust explosion? • if liquid—is it mobile/viscous/volatile/miscible? • if gas (and vapours)—is it lighter/heavier than air? • flashpoint, fire point and explosive limits • viscosity • density • particle size • vapour pressure • solubility and pH • reactivity • boiling and/or freezing point or range • electrical and/or heat conductivity • the nature and concentration of combustion products.

SDS Information	Description
Situations that may generate hazardous chemicals	Examples may include: • use of welding rods which may liberate hazardous fumes and vapours • directions for use of chlorine bleach, warning that harmful levels of chlorine gas may be generated if the substance is mixed with incompatible chemicals • warnings that some metals, including alkali metals, in contact with water or acids, liberate flammable gas • information on by-products or breakdown products like formation of explosive peroxides in ether.
Environmental hazards	The SDS should contain information on environmental hazards and risks. An awareness of this information will assist you to meet any environmental laws in your state or territory.

17.0 Segregation chart

This segregation chart is not intended for use with gas cylinders. For gas cylinders refer to Australian Standard 4332-2004 The storage and handling of gases in cylinders.

Table 7 Description of chemicals in segregation chart

Dangerous goods class	GHS hazard class
Class 2.1	• Flammable gases • Flammable aerosols
Class 2.2	• Gases under pressure
Class 3	• Flammable liquids
Class 4.1	• Flammable solids
Class 4.2	• Pyrophoric solids, liquids and gases • Self-heating substances and mixtures
Class 4.3	• Substances and mixtures which, in contact with water, emit flammable gases
Class 5.1	• Oxidising solids, liquids and gases
Class 5.2	• Self-reactive substances and mixtures • Organic peroxides
Class 6	• All health hazards
Class 8	• Corrosive to metals • Skin corrosion category 1 • Serious eye damage category 1

Table 8 Recommended segregation of GHS hazardous chemicals

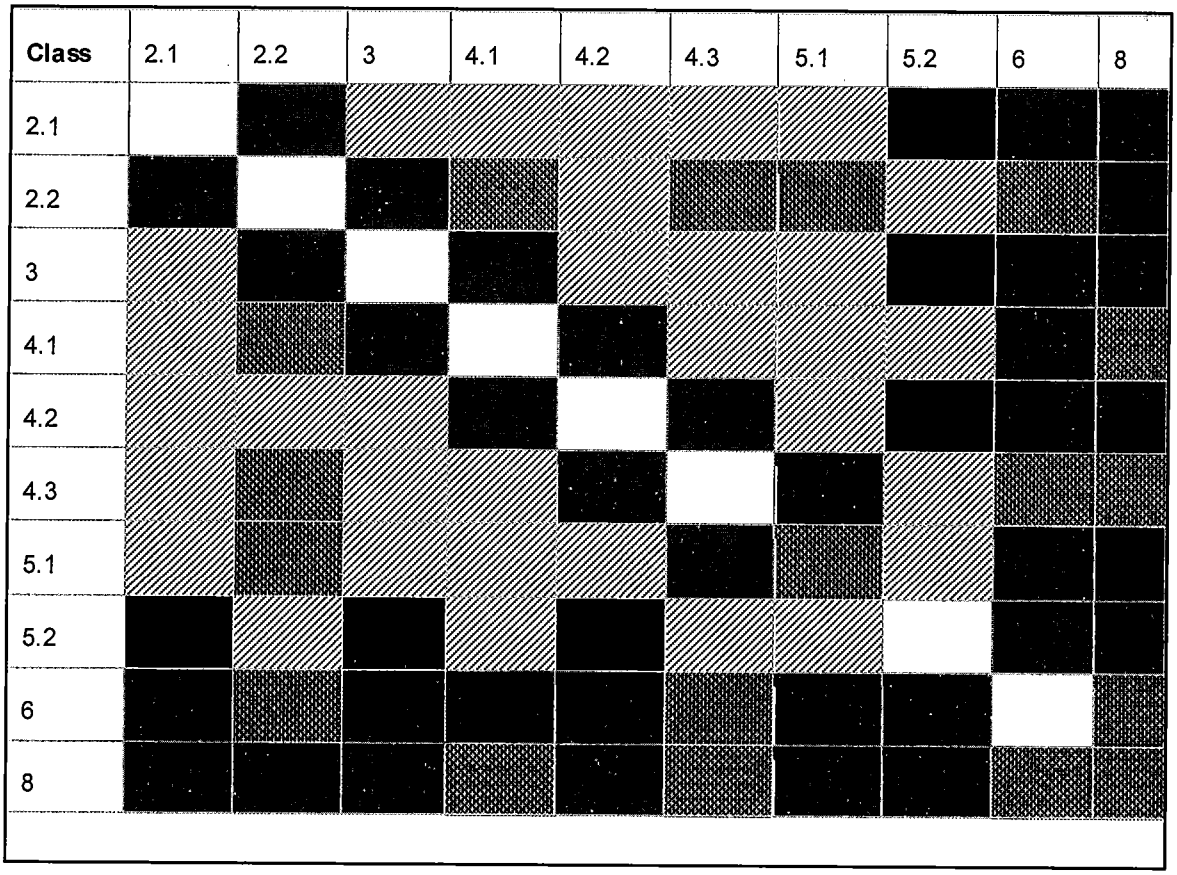


Table 9 Recommended segregation types

Segregation key	Segregation type
	COMPATIBLE: Chemicals with similar hazards are usually compatible. However, chemicals may have more than one hazard and you should still check the SDS.
	REFER TO SDS: Separation of these chemicals may be necessary. Consult the SDS for further guidance.
	MINIMUM THREE METRE SEPERATION: These chemicals may react dangerously if stored together may and should be kept at least three metres apart.
	MINIMUM FIVE METRE SEPERATION: Storing these chemicals together will significantly increase the likelihood or severity of an incident. They should be kept at least five metres apart or in separate storage areas.
	ISOLATE: Dedicated storage areas or storage cabinets are recommended for self-reactive chemicals and organic peroxides, as is separation from other buildings and property boundaries.

18.0 Training

Information, training, instruction and supervision must be provided to workers and other persons at the workplace, as required. The information, training and instruction for workers should include the:

- nature of the hazardous substances and the risks;
- control measures implemented, how to use and maintain them correctly;
- arrangements in place to deal with emergencies, including containing and cleaning up spills and first aid instructions;
- selection, use, maintenance and storage of any PPE required and the limitations of the PPE;
- labelling of containers of hazardous substances, the information that each part of the label provides;
- availability of SDS for all hazardous substances, how to access the SDS, and the information that each part of the SDS provides; and
- standard operating procedures to be followed in the use, handling, processing, storage, transportation, cleaning up and disposal of hazardous substances.

Where training is selected as a risk control, the manager must contact the Organisational Development Business Unit and ensure the training is recorded in the learning management system (MyLearning). The training and instruction used to control a risk can include:

- tool box talks;
- on the job training demonstrating how to undertake a task safely; and
- formal classroom or competency based training.

19.0 Records management

This guideline will be to be held in Objective, accessed through the Safety and Wellbeing Intranet and must be kept in accordance with the records disposal schedule under the Territory Records Act 2002.

Hazardous substances records must be retained for the periods specified in table 10.

Table 10 – Retention periods for hazardous substances records

Record	Retention period
Records of environmental monitoring of hazardous substances.	75 years after action completed.
Hazardous substance register (including asbestos register) identifying substance properties and details of their condition.	75 years after action completed.
Records documenting routine inspections of hazardous substances in the workplace.	75 years after action completed.
Arrangements for the delivery and storage of hazardous materials, equipment or stores	12 months after last action
Records documenting the establishment and development of a directorate asbestos policy, including: • policy proposals;	75 years after removal of asbestos.

• results of consultations; • research and supporting papers; • major drafts; and • final policy documents.	
Records documenting risk management of all WHS hazards including hazardous substances where risk assessments indicate risk to the workers and where health surveillance and/or monitoring of the workers are necessary. Includes documentation covering each stage of the process and action plans.	75 years after action completed.
Records documenting risk management of all WHS hazards including hazardous substances where risk assessments do not indicate that health surveillance and/or monitoring of the workers is necessary. Includes documentation covering each stage of the process, treatment schedules and action plans.	30 years.
WHS risk register containing environmental monitoring and health surveillance data.	75 years after last entry.
Health monitoring report.	75 years after the worker's date of birth.
WHS procedure documents, such as SWMS and JSA documents.	75 years after procedures are superseded.

20.0 Resources, policy, legislation and guidance

20.1 Definition of terms

Term	Definition
CLASS OF DANGEROUS GOOD	Means the number assigned to the goods in the ADG Code indicating the hazard, or most predominant hazard, exhibited by the goods.
COP	Work health and safety codes of practice provide more detailed information on how to achieve the requirements of the WHS Act and WHS Regulations.
DANGEROUS GOOD	Substances classified as dangerous goods, in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code). Most substances and mixtures that are dangerous goods under the ADG Code are hazardous chemicals, except those that have only radioactive hazards (class 7 dangerous goods), infectious substances (division 6.2) and most class 9 (miscellaneous) dangerous goods.
GHS	The Globally Harmonized System of Classification and Labelling of Chemicals is an international system of chemical hazard classification, labelling and safety data sheet (SDS) requirements.
HAZARDOUS CHEMICAL	A hazardous chemical is any substance, mixture or article that satisfies the criteria of one or more GHS hazard classes, including a classification in Schedule 6 of the WHS Regulation.
HAZARDOUS SUBSTANCE	Any substance that can have either a short or long-term adverse effect on the health of people, animals or the environment. The term hazardous substance is used when the guideline refers to hazardous chemicals and dangerous substances together.
HOC	Hierarchy of Control, a tiered system used to manage risks and hazards.
JSA	Job Safety Analysis
LMS	The Learning Management System (MyLearning) is a web-based application that manages training booking and approval of training. The LMS records health and safety training.
PLACARD	Placard means a sign or notice: a) displayed or intended for display in a prominent place, or next to a container or storage area for hazardous chemicals at a workplace b) that contains information about the hazardous chemical stored in the container or storage area.
PLANT AND EQUIPMENT	Plant and Equipment is defined as any machinery, equipment, appliance, container, implement or tools and any component thereof and anything fitted or connected to any of these items.
RISKMAN WORK INJURY REPORTING	The accident/incident online reporting system utilised by TCCS to record, track and review incidents, hazards and near misses that occur within the Directorate.
SAFETY AND WELLBEING	The Safety and Wellbeing Branch provides support and advice to take action to improve the safety and wellbeing.
SDS	Safety Data Sheet provide specific safety information for the management of a hazardous substances or dangerous substance
SOP	Standard Operating Procedure
SWMS	Safe Work Method Statement
WHS	Work Health and Safety
WHS ACT	The *Work Health and Safety Act 2011* is the primary governing legislation for work health and safety.
WHS REGULATION	*Work Health and Safety Regulation 2011* is subordinate legislation under the WHS Act and includes specific requirements for managing risk.

Term	Definition
WORKER	A person is a worker under TCCS if the person carries out work in any capacity for TCCS including an employee, contractor/subcontractor, labour hire, outworker, apprentice/trainee, work experience, a volunteer or a person of a prescribe class. (Refer to Section 7 of the WHS Act.)
WORKPLACE	A workplace is a place where work is carried out for TCCS and includes any place where a worker goes, or is likely to be, while at work. (Refer to Section 8 of the WHS Act.)

20.2 Relevant legislation

Legislation	Location
Dangerous Substances Act 2004	http://www.legislation.act.gov.au/a/2004-7/default.asp
Dangerous Substances Regulation 2004	http://www.legislation.act.gov.au/sl/2004-56/default.asp
Work Health and Safety Act 2011	http://www.legislation.act.gov.au/a/2011-35/default.asp
Work Health and Safety Regulation 2011	http://www.legislation.act.gov.au/sl/2011-36/default.asp
Work Health and Safety (Managing risks of hazardous chemicals in the workplace Code of Practice) Approval 2018	https://www.legislation.act.gov.au/ni/2018-156/
Work Health and Safety (Labelling of Workplace Hazardous Chemicals Code of Practice) Approval 2018	https://www.legislation.act.gov.au/ni/2018-154/
Work Health and Safety (Preparation of safety data sheets for hazardous chemicals Code of Practice) Approval 2018	https://www.legislation.act.gov.au/ni/2018-157/

20.3 Relevant resources

Policy/Document	Location
Access Canberra	https://www.accesscanberra.act.gov.au/app/answers/detail/a_id/2192/#!tabs-1
ACTPS Managing Hazardous Substances Procedure	http://sharedservices/ACTGovt/WHS/SafetyMgt/RiskManagement/Hazard-Sub.htm
ACTPS Hazardous Substances (Placards & Manifests) Procedure	http://sharedservices/ACTGovt/WHS/SafetyMgt/RiskManagement/Hazard-Sub.htm
ACTPS Safety Alert Use, Storage, Maintenance and Transport of LPG Gas Bottles	http://intccs/TCCS%20Pages%20Library/Safety%20Alerts.aspx
Australian Code for the Transport of Dangerous Goods by Road and Rail	https://www.ntc.gov.au/heavy-vehicles/safety/australian-dangerous-goods-code/
Australian Explosives Code	https://www.safeworkaustralia.gov.au/doc/australian-code-transport-explosives-road-and-rail-3rd-edition
Australian Standard 1940: The storage and handling of flammable and combustible liquids	Standards can be located via the Legislative Assembly Library at: http://inola/library/Pages/australian-Standards.aspx.
Australian Standard 4332: The storage and handling of gases in cylinders	
Australian/New Zealand Standard 1596: The storage and handling of LP Gas	
Hazardous Chemical Information System (Safe Work Australia)	http://hcis.safeworkaustralia.gov.au/

Policy/Document	Location
How to determine what is reasonably practicable to meet a health and safety duty – Safe Work Australia May 2013	https://www.safeworkaustralia.gov.au/doc/interpretive-guideline-model-work-health-and-safety-act-meaning-reasonably-practicable
Guidance on the Interpretation of Workplace Exposure Standards for Airborne Contaminants	https://www.safeworkaustralia.gov.au/doc/guidance-interpretation-workplace-exposure-standards-airborne-contaminants
Work Health and Safety (Spray Painting and Powder Coating) Code of Practice 2015	https://www.safeworkaustralia.gov.au/doc/model-code-practice-spray-painting-and-powder-coating

20.3.1 **TCCS WHSMS Resources**

Policy/Document	Location
WHS Airborne Contaminates Particulates Guideline	WHS Airborne Contaminates Particulates Guideline
WHS Workplace Emergency Plan Guideline	WHS Workplace Emergency Plan Guideline
WHS Procurement Guideline	WHS Procurement Guideline
WHS Plant and Equipment Risk Management Guideline	WHS Plant and Equipment Risk Management Guideline
WHS Risk Management Guideline	WHS Risk Management Guideline

21.0 Roles and responsibilities matrix

R = Direct Responsibility for leading or performing the task **PS = Provide Support to those who are directly responsible for performing the task**	Component	TCCS	DG/Executive Board	Managers	Workers	HSRs	Safety Committee	HSAs
Provide and maintain safe plant and structures that contain hazardous substances	1	R	PS	R	R	PS	PS	PS
Provide and maintain safe systems of work	1	R	PS	R	R	PS	PS	PS
Provide information, training, instruction and supervision	1	R	R	R	PS	PS	PS	PS
Ensure that information regarding incidents, hazards and risks is received, considered and responded to in a timely way	1	R	R	R	PS	PS	R	R
Ensure that risk assessments are undertaken of hazardous substances and risk controls implemented	2	R	PS	R	R	PS	PS	PS
Ensure that chemical registers, hazardous substances manifests and hazardous substances placards are in place	2	R	PS	R	PS	PS	PS	PS
Ensure that workplace emergency plans address the requirements for hazardous substances at the workplace	2	R	PS	R	PS	PS	PS	PS
Ensure that relevant information on hazardous substances is provided to ACT Fire and Rescue and Worksafe ACT.	2	R	PS	R	PS	PS	PS	R
Obtain and make available SDS to all workers prior to the use of a hazardous substance.	2	R	R	R		PS		PS
Ensure that the SDS is stored with or kept close to the hazardous substance.	2	R	R	R		PS		PS
Ensure information is provided to workers about the location, information and risk assessment associated with the handling, storage and disposal of hazardous substance.	2		R	R	R	PS		PS

R = Direct Responsibility for leading or performing the task **PS = Provide Support to those who are directly responsible for performing the task**	Component	TCCS	DG/Executive Board	Managers	Workers	HSRs	Safety Committee	HSAs
Ensure that all containers housing chemicals are approved for chemical storage and appropriately labelled, and legible, with all appropriate safety information associate with the chemical.	2	R	R	R	R	PS		PS
Provide and maintain safety equipment and PPE for the handling, storage and disposal of hazardous substances.	2	R	R	R	R	PS		PS
Provide adequate supervision, training, instruction and information about the purchasing, handling and disposable of hazardous substances.	2	R	R	R		PS		PS
Prevent access to unauthorised persons to hazardous substances.	2	R	R	R	R	PS		PS
Provide adequate hazardous atmosphere and health monitoring where required.	2	R	R	R	PS	PS		PS

22.0 Document consultation and management

The preparation and review of this guideline has been undertaken in accordance with the consultation arrangements of the Work Health and Safety Management System Framework

23.0 Document control

Process/Procedure number and name	Version No.	Issue Date	Author	Reason for change and/ or Review comments
Hazardous Substances Guideline	1.0	March 2019	Senior Safety Advisor	First version

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
1	2017	1	Agostini, Jess	Copelin, Malcolm	Warren, Daniel	29-Jun-17	Pest Management	Tuggeranong-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Copper Oxychloride			250	130		g			50	kambah
1	2017	2	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	29-Jun-17	Pest Management	S&R South	2	Pre-emergent	Oval Surrounds	Irrigated grass	Plant Health product									450	woden park
1	2017	3	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	29-Jun-17	Floriade 17	General-non specific	21	Fungal disease	Floral displays	Plant Foliage	Copper Oxychloride			250			g			2000	annuals
1	2017	4	Patterson, Daniel	Evans, Gabriel		29-Jun-17	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	300	kingsford smith, latham
1	2017	5	Patterson, Daniel	Evans, Gabriel		30-Jun-17	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	charnwood, mcgregor, kingsford smith
1	2017	6	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	30-Jun-17	Pest Management	Inner South-Pest Mgte	24	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	850	lyneham, barton highway, ginninderra dr
1	2017	7	Copelin, Malcolm	Warren, Daniel		01-Jul-17	Pest Management	City-Pest Mgte	10	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	750	london cct, corronderk st
1	2017	8	Patterson, Daniel	Evans, Gabriel		01-Jul-17	Pest Management	Inner North-Pest Mgte	10	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	450	parkesway
1	2017	9	Patterson, Daniel	Evans, Gabriel		01-Jul-17	Floriade 17	General-non specific	2	Fungal disease	Floral displays	Plant Foliage	Copper Oxychloride			250			g			250	annuals
1	2017	10	Copelin, Malcolm	Agostini, Jess		03-Jul-17	Pest Management	Inner North-Pest Mgte	16	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	450	barry dr, turner, o'connor
1	2017	11	Patterson, Daniel	Evans, Gabriel		03-Jul-17	Pest Management	Belconnen-Pest Mgte	14	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	450	holt, latham, kingsford smith dr
1	2017	12	Evans, Gabriel	Warren, Daniel		04-Jul-17	Pest Management	Belconnen-Pest Mgte	12	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	300	latham, kingsford smith, belconnen way
1	2017	13	Copelin, Malcolm	Agostini, Jess		04-Jul-17	Pest Management	Inner North-Pest Mgte	8	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	300	belconnen way, macarthur ave
1	2017	14	Copelin, Malcolm			04-Jul-17	Pest Management	City-Pest Mgte	2	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	80	correnderk st
1	2017	15	Agostini, Jess	Warren, Daniel	Evans, Gabriel	05-Jul-17	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	200	kingsford smith, southern cross, belconnen way
2	2017	1	Evans, Gabriel	Patterson, Daniel		06-Jul-17	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	kingsford smith dr, scullin, southern cross dr
2	2017	2	Warren, Daniel	Agostini, Jess		06-Jul-17	Pest Management	Inner South-Pest Mgte	12	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	200	captain cok cres, yarralumla, adelaide ave

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
2	2017	3	Warren, Daniel	Agostini, Jess		06-Jul-17	Floriade 17	General-non specific	4	Fungal disease	Floral displays	Plant Foliage	Copper Oxychloride			250			g			200	mitchell site
2	2017	4	Patterson, Daniel	Evans, Gabriel		07-Jul-17	Pest Management	Belconnen-Pest Mgte	12	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	copland dr, souther cross dr, belconnen way, scullin
2	2017	5	Agostini, Jess	Warren, Daniel		07-Jul-17	Pest Management	Inner South-Pest Mgte	8	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	200	parkes way, lasy denman, cotter road
2	2017	6	Agostini, Jess	Warren, Daniel		07-Jul-17	Floriade 17	General-non specific	4	Fungal disease	Floral displays	Plant Foliage	Copper Oxychloride			250			g			100	mitchell
2	2017	7	Patterson, Daniel	Evans, Gabriel		08-Jul-17	Pest Management	City-Pest Mgte	8	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	300	edinborough ave, ballumber st
2	2017	8	Patterson, Daniel	Evans, Gabriel		08-Jul-17	Pest Management	City-Pest Mgte	4	General Weed	Roadways	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		100	cooyong st, northbourne ave, commenwealth ave
2	2017	9	Agostini, Jess	Warren, Daniel		08-Jul-17	Pest Management	Inner South-Pest Mgte	12	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan		1	0		L	kg		300	newcastle st,
2	2017	10	Schultz, Peter			08-Jul-17	Pest Management	Woden/Weston-Pest Mgte	6	Sucker Control	Trees	Trees	Roundup			20			L			2	mawson, torrens cut and dab
2	2017	11	Warren, Daniel	Agostini, Jess		10-Jul-17	Pest Management	Inner North-Pest Mgte	16	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	350	parkes way, wakefield ave, antill st
2	2017	12	Patterson, Daniel	Evans, Gabriel		10-Jul-17	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	600	belconnen way, hawker, aranda
2	2017	13	Agostini, Jess	Warren, Daniel	Evans, Gabriel	11-Jul-17	Pest Management	Inner South-Pest Mgte	4	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	50	forrest, griffith
2	2017	14	Agostini, Jess	Warren, Daniel	Evans, Gabriel	11-Jul-17	Pest Management	Inner North-Pest Mgte	18	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	350	parkes way
2	2017	15	Evans, Gabriel			12-Jul-17	Pest Management	Belconnen-Pest Mgte	6	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	200	page, scullin, belconnen way
2	2017	16	Agostini, Jess	Warren, Daniel		12-Jul-17	Pest Management	Inner North-Pest Mgte	14	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	200	watson, parkes way,
3	2017	1	Evans, Gabriel			13-Jul-17	Pest Management	Belconnen-Pest Mgte	8	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	page, aranda
3	2017	2	Agostini, Jess	Warren, Daniel		14-Jul-17	Pest Management	Tuggeranong-Pest Mgte	8	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	200	sternburg cres
3	2017	3	Agostini, Jess	Warren, Daniel		14-Jul-17	Pest Management	S&R South	4	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									300	waniassa
3	2017	4	Patterson, Daniel	Evans, Gabriel		14-Jul-17	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	florey, cook, belconnen way

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
3	2017	5	Patterson, Daniel	Evans, Gabriel	Agostini, Jess	15-Jul-17	Pest Management	Inner South-Pest Mgte	14	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	450	canberra ave, ipswich, newcastle
3	2017	6	Patterson, Daniel	Evans, Gabriel	Warren, Daniel	15-Jul-17	Pest Management	City-Pest Mgte	2	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	50	commenwealth ave
3	2017	7	Warren, Daniel			15-Jul-17	Floriade 17	General-non specific	8	General Weed	Cycle paths	Mulched or cultivated	Basta			500			ml			250	granite paths
3	2017	8	Patterson, Daniel			17-Jul-17	Pest Management	Belconnen-Pest Mgte	8	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	300	ginninderra dr
3	2017	9	Agostini, Jess	Warren, Daniel		17-Jul-17	Pest Management	Inner North-Pest Mgte	16	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	500	majura
3	2017	10	Warren, Daniel	Agostini, Jess		18-Jul-17	Floriade 17	General-non specific	6	Plant Health	Floral displays	Mulched or cultivated	Plant Health product									400	used phosphite, aminogro, biomax
3	2017	11	Warren, Daniel	Agostini, Jess		18-Jul-17	Pest Management	Inner South-Pest Mgte	4	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	50	red hill, deakin
3	2017	12	Patterson, Daniel			18-Jul-17	Pest Management	Belconnen-Pest Mgte	8	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	250	coulter dr
3	2017	13	Patterson, Daniel			19-Jul-17	Pest Management	Belconnen-Pest Mgte	8	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	coulter dr, macquarie
3	2017	14	Agostini, Jess	Warren, Daniel		19-Jul-17	Floriade 17	General-non specific	14	Plant Health	Floral displays	Mulched or cultivated	Plant Health product									1100	comm park. phosphite, aminogro, biomax
4	2017	1	Patterson, Daniel			20-Jul-17	Floriade 17	General-non specific	2	Plant Health	Floral displays	Plant Foliage	Plant Health product									14	used nitrophoska, bleise 180kg/ha
4	2017	2	Evans, Gabriel			20-Jul-17	Pest Management	Belconnen-Pest Mgte	8	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	350	coulter dr, town centre
4	2017	3	Warren, Daniel	Agostini, Jess		20-Jul-17	Pest Management	Inner North-Pest Mgte	6	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	200	hindmarsh dr
4	2017	4	Warren, Daniel	Agostini, Jess		20-Jul-17	Pest Management	Woden/Weston-Pest Mgte	6	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	200	antill st
4	2017	5	Warren, Daniel	Agostini, Jess		20-Jul-17	Floriade 17	General-non specific	4	Plant Health	Floral displays	Mulched or cultivated	Plant Health product									100	used phosphite, aminogro, biomax
4	2017	6	Warren, Daniel	Agostini, Jess		21-Jul-17	Pest Management	Inner North-Pest Mgte	4	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	50	watson
4	2017	7	Warren, Daniel	Agostini, Jess		21-Jul-17	Floriade 17	General-non specific	12	Plant Health	Floral displays	Mulched or cultivated	Plant Health product									900	phosphite, aminogro, biomax
4	2017	8	Patterson, Daniel	Evans, Gabriel		21-Jul-17	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	300	wiliam slim dr, ginninderra dr, macqaurie

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
4	2017	9	Patterson, Daniel	Evans, Gabriel		22-Jul-17	Pest Management	Inner South-Pest Mgte	12	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	350	fyshwick roads
4	2017	10	Agostini, Jess	Warren, Daniel		22-Jul-17	Floriade 17	General-non specific	12	Plant Health	Floral displays	Mulched or cultivated	Plant Health product									1200	used phosphite, aminogro, biomax
4	2017	11	Evans, Gabriel			24-Jul-17	Pest Management	Belconnen-Pest Mgte	8	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	300	cook, william slim dr
4	2017	12	Patterson, Daniel	Hourigan, Celia		24-Jul-17	Floriade 17	General-non specific	16	Plant Health	Floral displays	Mulched or cultivated	Ferilizer			0			g			85	used nitrophoska blue 85kg. 180kg/ha
4	2017	13	Patterson, Daniel			25-Jul-17	Pest Management	S&R North	4	General Weed	Oval Surrounds	Irrigated grass	Glyphosate			1			L			400	used 2.5l/ha. hawker softball
4	2017	14	Evans, Gabriel			25-Jul-17	Pest Management	Belconnen-Pest Mgte	8	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	300	bruce, belconnen, aranda
4	2017	15	Patterson, Daniel	Hourigan, Celia		26-Jul-17	Floriade 17	General-non specific	14	Plant Health	Floral displays	Mulched or cultivated	Ferilizer			0			g			100	nitrophoska blu 100kg. ratio 180kg/ha
4	2017	16	Warren, Daniel	Evans, Gabriel	Agostini, Jess	26-Jul-17	Floriade 17	General-non specific	22	Plant Health	Floral displays	Plant Foliage	Plant Health product				0					1200	used rhizovital, foimax amino, maxi boron
5	2017	1	Patterson, Daniel	Evans, Gabriel		27-Jul-17	Pest Management	Belconnen-Pest Mgte	14	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	300	bruce
5	2017	2	Warren, Daniel	Agostini, Jess		27-Jul-17	Pest Management	Inner North-Pest Mgte	12	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	antill st, belco way, hindmarsh dr, parkes way, adelaide ave
5	2017	3	Warren, Daniel	Agostini, Jess		27-Jul-17	Floriade 17	General-non specific	4	Plant Health	Floral displays	Mulched or cultivated	Plant Health product									400	used rhitzovital, folimax amino, maxi boron
5	2017	4	Agostini, Jess	Evans, Gabriel		28-Jul-17	Floriade 17	General-non specific	16	Plant Health	Floral displays	Plant Foliage	Plant Health product									1200	floral beds, mitchell, comm park
5	2017	5	Patterson, Daniel			28-Jul-17	Pest Management	Belconnen-Pest Mgte	8	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	200	ginninderra dr
5	2017	6	Warren, Daniel			28-Jul-17	Pest Management	Inner North-Pest Mgte	4	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	25	wakefield ave
5	2017	7	Warren, Daniel			28-Jul-17	Pest Management	Inner South-Pest Mgte	4	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	25	adelaide ave
5	2017	8	Patterson, Daniel	Evans, Gabriel		29-Jul-17	Pest Management	Inner South-Pest Mgte	12	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	450	monaro highway
5	2017	9	Agostini, Jess	Warren, Daniel		29-Jul-17	Pest Management	Inner South-Pest Mgte	12	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	450	fyshwick
5	2017	10	Patterson, Daniel	Evans, Gabriel		01-Aug-17	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	heydon dr

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5	2017	11	Agostini, Jess	Warren, Daniel		01-Aug-17	Pest Management	Inner North-Pest Mgte	5	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	125	majura pkwy
5	2017	12	Agostini, Jess	Warren, Daniel		01-Aug-17	Pest Management	Inner South-Pest Mgte	5	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	125	hobart ave
5	2017	13	Agostini, Jess	Warren, Daniel		01-Aug-17	Floriade 17	General-non specific	4	Fungal disease	Floral displays	Mulched or cultivated	Barrack			100			ml			80	mitchell
5	2017	14	Patterson, Daniel			02-Aug-17	Pest Management	S&R North	4	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									920	gungahlin
5	2017	15	Patterson, Daniel			02-Aug-17	Pest Management	Inner South-Pest Mgte	4	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	200	symonston, monaro highway
5	2017	16	Agostini, Jess	Warren, Daniel		02-Aug-17	Pest Management	Inner North-Pest Mgte	8	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	200	parkes way
5	2017	17	Agostini, Jess	Warren, Daniel		02-Aug-17	Pest Management	Inner South-Pest Mgte	2	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	50	adelaide ave
5	2017	18	Agostini, Jess	Warren, Daniel		02-Aug-17	Floriade 17	General-non specific	4	Pests & Disease	Floral displays	Plant Foliage	Barrack			100			ml			100	florals
6	2017	1	Warren, Daniel	Agostini, Jess		03-Aug-17	Pest Management	Inner South-Pest Mgte	2	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	100	canberra ave
6	2017	2	Warren, Daniel	Agostini, Jess		03-Aug-17	Pest Management	Inner North-Pest Mgte	14	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	300	parkes way, tugg parkway, glenloch interchange
6	2017	3	Patterson, Daniel			03-Aug-17	Pest Management	Belconnen-Pest Mgte	4	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	100	ginninderra dr
6	2017	4	Patterson, Daniel			03-Aug-17	Pest Management	Inner South-Pest Mgte	2	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	100	monaro highway
6	2017	5	Patterson, Daniel	Agostini, Jess	Warren, Daniel	04-Aug-17	Floriade 17	General-non specific	24	Fungal disease	Floral displays	Mulched or cultivated	Barrack			100			ml			1100	fung on flower beds
6	2017	6	Agostini, Jess	Warren, Daniel		08-Aug-17	Pest Management	Inner South-Pest Mgte	14	General Weed	Open Space	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	weston park, telopea, bowen park
6	2017	7	Patterson, Daniel			08-Aug-17	Floriade 17	General-non specific	1	General Weed	Carparks & pedestrian areas	Mulched or cultivated	Basta			400			ml			30	pathways
6	2017	8	Patterson, Daniel			08-Aug-17	Floriade 17	General-non specific	2	Pests & Disease	Floral displays	Plant Foliage	Copper Oxychloride	D-C-Tron		250	2		g	L		20	roses
6	2017	9	Patterson, Daniel			08-Aug-17	Pest Management	City-Pest Mgte	2	Pests & Disease	Floral displays	Plant Foliage	Copper Oxychloride	D-C-Tron		250	2		g	L		20	roses
6	2017	10	Patterson, Daniel			08-Aug-17	Pest Management	Inner South-Pest Mgte	2	Pests & Disease	Floral displays	Plant Foliage	Copper Oxychloride	D-C-Tron		250	2		g	L		20	roses

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
6	2017	11	Patterson, Daniel			08-Aug-17	Pest Management	Woden/Weston-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Copper Oxychloride	D-C-Tron		250	2		g	L		20	roses
6	2017	12	Patterson, Daniel			09-Aug-17	Pest Management	Belconnen-Pest Mgte	4	Pests & Disease	Floral displays	Plant Foliage	Copper Oxychloride	D-C-Tron		250	2		g	L		100	roses, friut trees
6	2017	13	Patterson, Daniel			09-Aug-17	Pest Management	Inner South-Pest Mgte	2	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	100	hindmarsh dr
6	2017	14	Warren, Daniel	Agostini, Jess		09-Aug-17	Pest Management	S&R South	8	General Weed	Open Space	Dryland grass	Glyphosate			1			L			800	winter grass
6	2017	15	Warren, Daniel	Agostini, Jess		09-Aug-17	Pest Management	S&R South	6	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									800	used biosea
7	2017	1	Patterson, Daniel			10-Aug-17	Pest Management	Inner South-Pest Mgte	8	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	300	sturt ave, jerrabomberra ave, captain cook cres
7	2017	2	Agostini, Jess	Warren, Daniel		10-Aug-17	Pest Management	Inner South-Pest Mgte	16	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	norse road, adelaide ave
7	2017	3	Patterson, Daniel	Agostini, Jess	Warren, Daniel	11-Aug-17	Pest Management	Inner South-Pest Mgte	24	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	750	monaro highway, hindmarsh dr,deakin,forrest, narrabundah
7	2017	4	Patterson, Daniel	Agostini, Jess	Warren, Daniel	12-Aug-17	Pest Management	Inner South-Pest Mgte	24	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	800	monaro highway, lanyon dr
7	2017	5	Patterson, Daniel	Duffell, John		14-Aug-17	Pest Management	Inner South-Pest Mgte	16	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	300	monaro highway
7	2017	6	Agostini, Jess			14-Aug-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	weston park
7	2017	7	Patterson, Daniel	Duffell, John		15-Aug-17	Pest Management	Inner South-Pest Mgte	14	General Weed	Roadways	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	500	100	L	g	ml	100	monaro highway, hindmarsh dr
7	2017	8	Patterson, Daniel			15-Aug-17	Pest Management	Belconnen-Pest Mgte	2	Insect Pests	Trees	Trees	Insecticide			0			ml			100	used 100g coopex dust. bees, hawker
7	2017	9	Warren, Daniel			15-Aug-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	500	100	L	g	ml	300	telopea, bowen park
7	2017	10	Warren, Daniel	Duffell, John		16-Aug-17	Floriade 17	General-non specific	12	Plant Health	Floral displays	Plant Foliage	Plant Health product									500	used rhitzovital and blossum booster
7	2017	11	Copelin, Malcolm	Agostini, Jess		16-Aug-17	Floriade 17	General-non specific	12	Plant Health	Floral displays	Plant Foliage	Plant Health product									800	used rhitzovital and blossum booster
8	2017	1	Copelin, Malcolm	Warren, Daniel		17-Aug-17	Pest Management	Inner South-Pest Mgte	13	General Weed	Roadways	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	monaro highway

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8	2017	2	Copelin, Malcolm	Warren, Daniel		17-Aug-17	Floriade 17	General-non specific	3	Plant Health	Floral displays	Plant Foliage	Plant Health product									300	used rhitzovital, boostor. annuals and bulbs
8	2017	3	Patterson, Daniel	Duffell, John		17-Aug-17	Pest Management	Inner South-Pest Mgte	14	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	narrabundah light poles, signs
8	2017	4	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	18-Aug-17	Pest Management	Inner South-Pest Mgte	24	General Weed	Roadways	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	monaro highway, long gully road
8	2017	5	Patterson, Daniel	Duffell, John		18-Aug-17	Pest Management	Inner South-Pest Mgte	12	General Weed	Roadways	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	hindmarsh dr, canberra ave
8	2017	6	Patterson, Daniel			19-Aug-17	Pest Management	City-Pest Mgte	4	General Weed	Cycle paths	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	city west bus interchange
8	2017	7	Agostini, Jess	Warren, Daniel	Patterson, Daniel	19-Aug-17	Floriade 17	General-non specific	14	Plant Health	Floral displays	Plant Foliage	Plant Health product									1200	used rhitzovital
8	2017	8	Agostini, Jess	Copelin, Malcolm		21-Aug-17	Pest Management	Inner South-Pest Mgte	12	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	lennox gardens, yarralumla lake shore
8	2017	9	Patterson, Daniel			21-Aug-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Roadways	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	fyshwick, symonston
8	2017	10	Warren, Daniel			22-Aug-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Roadways	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	beard- canb ave
8	2017	11	Patterson, Daniel	Duffell, John		22-Aug-17	Pest Management	Inner South-Pest Mgte	16	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	canb ave, fyshwick park
8	2017	12	Copelin, Malcolm	Agostini, Jess		22-Aug-17	Pest Management	Inner South-Pest Mgte	11	General Weed	Open Space	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	lennox gardens
8	2017	13	Copelin, Malcolm	Agostini, Jess		23-Aug-17	Pest Management	Inner South-Pest Mgte	10	General Weed	Open Space	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	weston park
8	2017	14	Copelin, Malcolm	Agostini, Jess		23-Aug-17	Floriade 17	General-non specific	2	Pests & Disease	Floral displays	Plant Foliage	Mancozeb 800			150			g			250	annuals, bulbs
8	2017	15	Warren, Daniel			23-Aug-17	Pest Management	Inner South-Pest Mgte	6	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	telopea park, bowen dr, sydney ave, canb ave
8	2017	16	Warren, Daniel			23-Aug-17	Floriade 17	General-non specific	2	General Weed	Open Space	Dryland grass	Glyphosate			1			L			10	weed control
8	2017	17	Patterson, Daniel	Duffell, John		23-Aug-17	Pest Management	Inner South-Pest Mgte	16	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	DFO, canb ave, rocky knob park
9	2017	1	Copelin, Malcolm	Patterson, Daniel	Warren, Daniel	24-Aug-17	Floriade 17	General-non specific	8	Pests & Disease	Floral displays	Plant Foliage	Mancozeb 800	Procide		150	25		g	ml		500	annuals and bulbs

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9	2017	2	Duffell, John	Copelin, Malcolm	Warren, Daniel	24-Aug-17	Pest Management	Inner South-Pest Mgte	12	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	red hill look out, latrobe park, canb ave
9	2017	3	Patterson, Daniel	Duffell, John		24-May-17	Pest Management	Inner South-Pest Mgte	12	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	rocky knob pk narrabundah, molonglo ski park
9	2017	4	Copelin, Malcolm	Agostini, Jess		25-Aug-17	Pest Management	Inner South-Pest Mgte	12	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	english gardens, weston park, adelaide ave
9	2017	5	Warren, Daniel			25-Aug-17	Pest Management	Inner South-Pest Mgte	6	General Weed	Roadways	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	wentworthe ave, canb ave
9	2017	6	Patterson, Daniel	Duffell, John		25-Aug-17	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	civic pool carpark
9	2017	7	Patterson, Daniel	Duffell, John		25-Aug-17	Pest Management	Inner South-Pest Mgte	4	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	molonglo ski park
9	2017	8	Warren, Daniel	Agostini, Jess		26-Aug-17	Floriade 17	General-non specific	12	Pests & Disease	Floral displays	Plant Foliage	Mancozeb 800	Procide		150	25		g	ml		900	floral beds
9	2017	9	Patterson, Daniel	Duffell, John		26-Aug-17	Pest Management	City-Pest Mgte	12	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	hobart ave, pencross
9	2017	10	Copelin, Malcolm	Agostini, Jess		28-Aug-17	Pest Management	Inner South-Pest Mgte	14	General Weed	Roadways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	medians
9	2017	11	Copelin, Malcolm	Agostini, Jess		28-Aug-17	Pest Management	S&R South	2	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									600	used biosea
9	2017	12	Patterson, Daniel			28-Aug-17	Pest Management	City-Pest Mgte	4	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	civic pool carpark
9	2017	13	Patterson, Daniel			28-Aug-17	Pest Management	Inner South-Pest Mgte	2	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	molonglo ski park
9	2017	14	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	29-Aug-17	Pest Management	Inner South-Pest Mgte	3	General Weed	Medians	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		50	adelaide ave, hindmarsh dr
9	2017	15	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	29-Aug-17	Pest Management	S&R South	1	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									400	narrabundah baseball
9	2017	16	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	29-Aug-17	Pest Management	S&R South	2	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									600	greenway
9	2017	17	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	29-Aug-17	Pest Management	S&R North	16	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									3200	ovals
9	2017	18	Patterson, Daniel	Duffell, John		29-Aug-17	Pest Management	City-Pest Mgte	16	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	london cct, civic depot carparks
9	2017	19	Patterson, Daniel			30-Aug-17	Pest Management	S&R North	4	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									1320	holt, gungahlin

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9	2017	20	Patterson, Daniel	Duffell, John		30-Aug-17	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	section 19 carpark
9	2017	21	Patterson, Daniel	Duffell, John		30-Aug-17	Pest Management	Inner South-Pest Mgte	4	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	mill creek oval and carpak narrabundah
9	2017	22	Warren, Daniel	Agostini, Jess		30-Aug-17	Pest Management	Inner South-Pest Mgte	10	Selective Weeds	Open Space	Plant Foliage	Fusilade 212	Red Dye	Agral 600	400	100	20	ml	ml	ml	100	norgrove pak, english gardens, red hill
9	2017	23	Warren, Daniel	Agostini, Jess		30-Aug-17	Pest Management	Woden/Weston-Pest Mgte	4	Selective Weeds	Open Space	Plant Foliage	Fusilade 212	Red Dye	Agral 600	400	100	20	ml	ml	ml	50	various sites
12	2017	1	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	14-Sep-17	Pest Management	Inner South-Pest Mgte	24	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	450	deakin, red hill look out, yarralumla laneways
12	2017	2	Patterson, Daniel	Evans, Gabriel		14-Sep-17	Pest Management	City-Pest Mgte	12	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	glebe park, law courts carpark, melbourne ave
12	2017	3	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	15-Sep-17	Pest Management	Inner South-Pest Mgte	24	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	telopea park, captain cook cres, kingston shops and laneways
12	2017	4	Patterson, Daniel	Evans, Gabriel		15-Sep-17	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	law courts carpark, veterans park
12	2017	5	Patterson, Daniel	Evans, Gabriel		15-Sep-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	narrabundah laneways
12	2017	6	Patterson, Daniel	Agostini, Jess	Warren, Daniel	16-Sep-17	Pest Management	Belconnen-Pest Mgte	24	General Weed	Open Space	Hardstanding areas	Glyphosate	Pulse	Red Dye	1	200	100	L	ml	ml	350	all west belconnen subburbs
12	2017	7	Schultz, Peter			16-Sep-17	Pest Management	Woden/Weston-Pest Mgte	6	Sucker Control	Aquatic Areas	Trees	Roundup			1			L			2	storm water, sucker control
12	2017	8	Copelin, Malcolm	Agostini, Jess		18-Sep-17	Pest Management	Inner South-Pest Mgte	16	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	kingston shops, lennox gardens, pescott lane, latrobe park
12	2017	9	Evans, Gabriel			18-Sep-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	narrabundah shops and laneways. molonglo ski club
12	2017	10	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	19-Sep-17	Pest Management	Gungahlin-Pest Mgte	22	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		200	horse park dr, nicholls, jacka, bonner, amaroo, mirrabei
12	2017	11	Patterson, Daniel			19-Sep-17	Pest Management	Yarralumla Nursery	8	Plant Health	Floral displays	Mulched or cultivated	Mallet				0					1200	used amino plus 250ml and mycoapply 500g

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12	2017	12	Patterson, Daniel	Evans, Gabriel		20-Sep-17	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	glebe pk, civic pool and canberra house carparks
12	2017	13	Patterson, Daniel	Evans, Gabriel		20-Sep-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	narrabundah laneways
12	2017	14	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	20-Sep-17	Pest Management	Inner South-Pest Mgte	20	General Weed	Open Space	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	kingston foreshore, norgrove pk, jack ross pk, weston pk
12	2017	15	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	20-Sep-17	Pest Management	Yarralumla Nursery	2	Plant Health	Floral displays	Plant Foliage	Mallet				0					400	used amino plus and mycoapply. section 8 pot drench
11	2017	1	Copelin, Malcolm	Warren, Daniel		07-Sep-17	Pest Management	Inner South-Pest Mgte	4	General Weed	Open Space	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	manuka, griffith shops
11	2017	2	Copelin, Malcolm	Warren, Daniel		07-Sep-17	Floriade 17	General-non specific	12	Plant Health	Floral displays	Plant Foliage	Ferilizer			0			g			1600	annuals and bulbs
11	2017	3	Patterson, Daniel	Evans, Gabriel		07-Sep-17	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	section 19, carpark
11	2017	4	Patterson, Daniel	Evans, Gabriel		07-Sep-17	Pest Management	Inner South-Pest Mgte	4	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	narrabundah laneways
11	2017	5	Patterson, Daniel	Evans, Gabriel		07-Sep-17	Pest Management	Inner South-Pest Mgte	4	Selective Weeds	Shrub beds	Mulched or cultivated	Fusilade 212	Red Dye	Agral 600	400	100	20	ml	ml	ml	30	fyshwick
11	2017	6	Patterson, Daniel	Evans, Gabriel		08-Sep-17	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	mooseheads carpark
11	2017	7	Patterson, Daniel	Evans, Gabriel		08-Sep-17	Pest Management	Inner South-Pest Mgte	4	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	120	narrabundah laneways
11	2017	8	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	08-Sep-17	Pest Management	Inner South-Pest Mgte	6	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	120	manuka shops
11	2017	9	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	08-Sep-17	Floriade 17	General-non specific	14	Pests & Disease	Floral displays	Plant Foliage	Procide	Roundup		25	1		ml	L		750	annuals and bulbs
11	2017	10	Patterson, Daniel	Evans, Gabriel		09-Sep-17	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	bus interchange
11	2017	11	Patterson, Daniel	Evans, Gabriel		09-Sep-17	Floriade 17	General-non specific	2	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	archbishops residents
11	2017	12	Agostini, Jess			09-Sep-17	Floriade 17	General-non specific	4	General Weed	Cycle paths	Mulched or cultivated	Basta	Pulse	Red Dye	400	200	100	ml	ml	ml	60	paths
11	2017	13	Warren, Daniel	Duffell, John	Evans, Gabriel	09-Sep-17	Floriade 17	General-non specific	10	Pests & Disease	Floral displays	Plant Foliage	Mallet	Rovral			200			ml		800	floral beds

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11	2017	14	Warren, Daniel	Agostini, Jess	Duffell, John	09-Sep-17	Pest Management	Inner South-Pest Mgte	6	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	manuka shops
11	2017	15	Schultz, Peter			09-Sep-17	Pest Management	Inner South-Pest Mgte	6	Sucker Control	Open Space	Trees	Roundup			5			L			2	stormwater channels
11	2017	16	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	11-Sep-17	Floriade 17	General-non specific	6	Pests & Disease	Shrub beds	Plant Foliage	Rovral	Mallet		200			ml			400	floral beds
11	2017	17	Evans, Gabriel	Patterson, Daniel		11-Sep-17	Floriade 17	General-non specific	4	Pests & Disease	Shrub beds	Plant Foliage	Rovral	Mallet		200			ml			200	floral beds
11	2017	18	Patterson, Daniel	Evans, Gabriel		11-Sep-17	Floriade 17	General-non specific	8	General Weed	Open Space	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	archbishops residents
11	2017	19	Patterson, Daniel	Evans, Gabriel		11-Sep-17	Pest Management	Inner South-Pest Mgte	4	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	narrabundah
11	2017	20	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	11-Sep-17	Pest Management	Inner South-Pest Mgte	18	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	red hill, forrest laneways
11	2017	21	Copelin, Malcolm	Agostini, Jess		12-Sep-17	Pest Management	Inner South-Pest Mgte	14	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	deakin, kingston
11	2017	22	Evans, Gabriel	Warren, Daniel		12-Sep-17	Pest Management	Inner South-Pest Mgte	16	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	dealkin, griffith, hume, latrobe depot
11	2017	23	Warren, Daniel	Agostini, Jess		13-Sep-17	Pest Management	Inner South-Pest Mgte	10	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	griffith, yarralumla and griffith laneways
11	2017	24	Patterson, Daniel	Evans, Gabriel		13-Sep-17	Pest Management	City-Pest Mgte	12	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	glebe park, mooseheads carpark, canberra thertre surrounds
14	2017	1	Copelin, Malcolm			28-Sep-17	Pest Management	S&R South	3	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									1000	greenway. used biosea
14	2017	2	Copelin, Malcolm			28-Sep-17	Floriade 17	General-non specific	1	Plant Health	Floral displays	Mulched or cultivated	Banrot 400			60			g			450	annuals
14	2017	3	Copelin, Malcolm			28-Sep-17	Pest Management	Gungahlin-Pest Mgte	1	Selective Weeds	Open Space	Dryland grass	Taskforce			200			ml			50	gangahlin
14	2017	4	Copelin, Malcolm			28-Sep-17	Pest Management	Tuggeranong-Pest Mgte	1	Selective Weeds	Open Space	Dryland grass	Taskforce			200			ml			50	kambah
14	2017	5	Copelin, Malcolm			28-Sep-17	Pest Management	Belconnen-Pest Mgte	2	Insect Pests	Open Space	Dryland grass	Tempo			0			ml			35	work order, scullin
14	2017	6	Evans, Gabriel			28-Sep-17	Pest Management	S&R North	8	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	aranda
14	2017	7	Patterson, Daniel	Evans, Gabriel		29-Sep-17	Pest Management	S&R North	12	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	aranda, scullin, amaroo, ngunnawal

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
14	2017	8	Patterson, Daniel	Evans, Gabriel		29-Sep-17	Pest Management	S&R South	4	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	narrabundah
14	2017	9	Copelin, Malcolm	Agostini, Jess		29-Sep-17	Pest Management	S&R South	16	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	450	various
14	2017	10	Patterson, Daniel	Agostini, Jess	Evans, Gabriel	30-Sep-17	Pest Management	Yarralumla Nursery	16	General Weed	Open Space	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	sections 1,2,3
14	2017	11	Patterson, Daniel	Agostini, Jess	Evans, Gabriel	30-Sep-17	Pest Management	Belconnen-Pest Mgte	8	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		100	stormwater
14	2017	12	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	03-Oct-17	Pest Management	Yarralumla Nursery	5	General Weed	Open Space	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	section 9,10
14	2017	13	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	03-Oct-17	Pest Management	S&R South	17	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	various
14	2017	14	Patterson, Daniel			03-Oct-17	Pest Management	S&R North	8	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	various
14	2017	15	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	04-Oct-17	Pest Management	Yarralumla Nursery	14	General Weed	Open Space	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	550	section 11,12 and surrounds
14	2017	16	Warren, Daniel	Patterson, Daniel	Evans, Gabriel	04-Oct-17	Pest Management	S&R South	13	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	various
14	2017	17	Agostini, Jess	Patterson, Daniel	Evans, Gabriel	04-Oct-17	Pest Management	S&R North	11	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	giralang
13	2017	1	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	21-Sep-17	Pest Management	Inner South-Pest Mgte	22	General Weed	Open Space	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	800	kingston forshore, irrigated parks
13	2017	2	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	21-Sep-17	Pest Management	Yarralumla Nursery	2	Pests & Disease	Floral displays	Mulched or cultivated	Mallet									450	used amino plus
13	2017	3	Patterson, Daniel	Evans, Gabriel		21-Sep-17	Pest Management	City-Pest Mgte	12	General Weed	Open Space	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	270	glebe park
13	2017	4	Patterson, Daniel	Evans, Gabriel		21-Sep-17	Pest Management	Inner South-Pest Mgte	4	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	130	narrabundah laneways
13	2017	5	Patterson, Daniel	Evans, Gabriel		22-Sep-17	Pest Management	City-Pest Mgte	8	General Weed	Open Space	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	glebe park
13	2017	6	Patterson, Daniel	Evans, Gabriel		22-Sep-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	narrabundah laneways
13	2017	7	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	22-Sep-17	Floriade 17	General-non specific	2	Plant Health	Floral displays	Plant Foliage	Banrot 400			60			g			450	annuals
13	2017	8	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	22-Sep-17	Pest Management	Inner South-Pest Mgte	22	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	750	weston park
13	2017	9	Patterson, Daniel	Evans, Gabriel		23-Sep-17	Pest Management	S&R North	12	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	melba, evatt, florey, flynn, fraser, hawker, cook
13	2017	10	Agostini, Jess	Warren, Daniel		23-Sep-17	Pest Management	Belconnen-Pest Mgte	18	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		200	stormwater. kaleen and mitchell

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13	2017	11	Copelin, Malcolm	Agostini, Jess		26-Sep-17	Pest Management	Yarralumla Nursery	5	General Weed	Open Space	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	500	100	L	g	ml	450	section 8
13	2017	12	Copelin, Malcolm	Agostini, Jess		26-Sep-17	Pest Management	S&R North	9	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	hackett, watson,campbell, lynhem
13	2017	13	Patterson, Daniel	Evans, Gabriel		26-Sep-17	Pest Management	S&R North	16	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	kaleen, harrison, nichols
13	2017	14	Copelin, Malcolm	Patterson, Daniel	Evans, Gabriel	27-Sep-17	Pest Management	Yarralumla Nursery	10	General Weed	Open Space	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	500	100	L	g	ml	400	sections 4 - 7
13	2017	15	Copelin, Malcolm	Agostini, Jess		27-Sep-17	Pest Management	S&R South	7	Selective Weeds	Oval Surrounds	Irrigated grass	Dimension EW	Agral 600			20			ml		1000	woden weston area
13	2017	16	Copelin, Malcolm	Agostini, Jess		27-Sep-17	Pest Management	S&R South	2	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									400	used lockout
13	2017	17	Copelin, Malcolm	Agostini, Jess		27-Sep-17	Pest Management	S&R South	2	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Red Dye	Simanex 900	1	100	110	L	ml	g	40	curtin
13	2017	18	Patterson, Daniel	Evans, Gabriel		27-Sep-17	Pest Management	S&R North	10	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	kaleen, giralang, holt, macgregor, latham
15	2017	1	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	05-Oct-17	Pest Management	City-Pest Mgte	2	Pests & Disease	Floral displays	Plant Foliage	Saprol			130	0		ml			35	roses
15	2017	2	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	05-Oct-17	Pest Management	Belconnen-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Saprol			130			ml			5	roses
15	2017	3	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	05-Oct-17	Pest Management	Tuggeranong-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Saprol			130			ml			5	roses
15	2017	4	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	05-Oct-17	Pest Management	Woden/Weston-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Saprol			130			ml			10	roses
15	2017	5	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	05-Oct-17	Pest Management	Inner South-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Saprol			130			ml			15	roses
15	2017	6	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	05-Oct-17	Pest Management	S&R South	12	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	various
15	2017	7	Evans, Gabriel			05-Oct-17	Pest Management	S&R North	8	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	various belconnen
15	2017	8	Evans, Gabriel			06-Oct-17	Pest Management	S&R North	8	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	kaleen, holt, higgins
15	2017	9	Copelin, Malcolm	Warren, Daniel		06-Oct-17	Pest Management	S&R North	16	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									3600	used biosea. various sites
15	2017	10	Agostini, Jess	Evans, Gabriel	Warren, Daniel	07-Oct-17	Pest Management	Inner North-Pest Mgte	18	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		250	hackett, southwell drains, o'connor offset
15	2017	11	Schultz, Peter			07-Oct-17	Pest Management	Tuggeranong-Pest Mgte	3	Insect Pests	Building Surrounds	Hardstanding areas	Tempo			1			ml			80	ants x3. bus stop
15	2017	12	Schultz, Peter			07-Oct-17	Pest Management	Inner South-Pest Mgte	3	Sucker Control	Open Space	Trees	Roundup			20			L			1	telopea park suckers

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
15	2017	13	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	09-Oct-17	Pest Management	S&R South	6	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									2000	used greenmax
15	2017	14	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	09-Oct-17	Pest Management	Yarralumla Nursery	5	Pests & Disease	Floral displays	Mulched or cultivated	Mallet									700	use amino plus
15	2017	15	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	09-Oct-17	Pest Management	S&R South	12	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	stirling
15	2017	16	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	09-Oct-17	Pest Management	Inner South-Pest Mgte	1	General Weed	Medians	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	15	cotter road
15	2017	17	Patterson, Daniel	Evans, Gabriel		09-Oct-17	Pest Management	S&R North	14	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	gungahlin various
15	2017	18	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	10-Oct-17	Pest Management	S&R South	22	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	500	various
15	2017	19	Patterson, Daniel	Evans, Gabriel		10-Oct-17	Pest Management	S&R South	4	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	narrabundah
15	2017	20	Patterson, Daniel	Evans, Gabriel		10-Oct-17	Pest Management	S&R North	12	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	hall showground
15	2017	21	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	11-Oct-17	Pest Management	S&R South	18	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
15	2017	22	Patterson, Daniel	Evans, Gabriel		11-Oct-17	Pest Management	S&R North	14	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
16	2017	1	Copelin, Malcolm	Agostini, Jess		12-Oct-17	Pest Management	Yarralumla Nursery	6	Plant Health	Floral displays	Mulched or cultivated	Mallet									1000	section 9
16	2017	2	Copelin, Malcolm	Agostini, Jess		12-Oct-17	Pest Management	S&R North	6	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	majura
16	2017	3	Copelin, Malcolm	Agostini, Jess		12-Oct-17	Pest Management	S&R South	4	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	80	curtin
16	2017	4	Patterson, Daniel	Evans, Gabriel	Warren, Daniel	12-Oct-17	Pest Management	S&R North	24	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									4800	holt, nicholls, harrison, gungahlin
16	2017	5	Warren, Daniel	Copelin, Malcolm	Agostini, Jess	13-Oct-17	Pest Management	S&R North	24	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	500	inner north
16	2017	6	Patterson, Daniel	Evans, Gabriel		13-Oct-17	Pest Management	S&R North	14	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	holt, gungahlin
16	2017	7	Patterson, Daniel	Warren, Daniel		14-Oct-17	Pest Management	Yarralumla Nursery	6	Pests & Disease	Shrub beds	Mulched or cultivated	Saprol	Mavrik		130	40		ml	ml		200	murtle rust
16	2017	8	Patterson, Daniel	Warren, Daniel		14-Oct-17	Pest Management	Inner South-Pest Mgte	6	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		150	yarralumla, deakin, brisbane ave
16	2017	9	Agostini, Jess	Evans, Gabriel	Roberts, Jayne	14-Oct-17	Pest Management	Inner North-Pest Mgte	18	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		150	sullivans creek
16	2017	10	Schultz, Peter			14-Oct-17	Pest Management	Inner South-Pest Mgte	6	Sucker Control	Aquatic Areas	Trees	Glyphosate			20			L			2	yarralumla suckers, stormwater

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
16	2017	11	Copelin, Malcolm	Agostini, Jess	Evans, Gabriel	16-Oct-17	Pest Management	S&R South	20	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	500	various sites
16	2017	12	Copelin, Malcolm	Evans, Gabriel	Agostini, Jess	16-Oct-17	Pest Management	S&R South	2	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	stirling
16	2017	13	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	17-Oct-17	Pest Management	S&R South	6	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	180	woden park
16	2017	14	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	17-Oct-17	Pest Management	S&R North	12	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	downer, o'connor
16	2017	15	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	17-Oct-17	Pest Management	Inner South-Pest Mgte	4	Environmental Weed	Open Space	Plant Foliage	Glyphosate			1			L			60	angle onion
16	2017	16	Patterson, Daniel	Evans, Gabriel		17-Oct-17	Pest Management	S&R North	12	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	holt, charnwood
16	2017	17	Patterson, Daniel	Evans, Gabriel		17-Oct-17	Pest Management	S&R South	4	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	narrabundah
16	2017	18	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	18-Oct-17	Pest Management	S&R North	11	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	southwell
16	2017	19	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	18-Oct-17	Pest Management	S&R South	11	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	calwell
16	2017	20	Patterson, Daniel	Evans, Gabriel		18-Oct-17	Pest Management	S&R North	14	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	holt
17	2017	1	Agostini, Jess	Copelin, Malcolm		19-Oct-17	Pest Management	S&R South	16	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	450	kambah
17	2017	2	Patterson, Daniel	Evans, Gabriel		19-Oct-17	Pest Management	S&R North	16	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	hawker
17	2017	3	Patterson, Daniel	Evans, Gabriel		20-Oct-17	Pest Management	S&R North	4	Insect Pests	Oval Surrounds	Hardstanding areas	Tempo			50			ml			40	hawker softball
17	2017	4	Patterson, Daniel	Evans, Gabriel		20-Oct-17	Pest Management	Belconnen-Pest Mgte	4	Insect Pests	Building Surrounds	Hardstanding areas	Tempo			50			ml			40	belco depot
17	2017	5	Patterson, Daniel	Evans, Gabriel		20-Oct-17	Pest Management	Inner South-Pest Mgte	2	Insect Pests	Building Surrounds	Hardstanding areas	Tempo			50			ml			40	narrabundah school
17	2017	6	Patterson, Daniel	Evans, Gabriel		20-Oct-17	Pest Management	Gungahlin-Pest Mgte	2	Insect Pests	Building Surrounds	Buildings & Structures	Tempo			50			ml			20	bust stop, pallin st work request
17	2017	7	Copelin, Malcolm	Warren, Daniel	Agostini, Jess	20-Oct-17	Pest Management	Tuggeranong-Pest Mgte	10	Tree Poisoning	Trees	Trees	Roundup	Garlon 600		1	200		L	ml		15	canberra ave, poplar tree poisoning
17	2017	8	Agostini, Jess	Warren, Daniel	Copelin, Malcolm	20-Oct-17	Pest Management	Tuggeranong-Pest Mgte	10	Tree Poisoning	Trees	Trees	Roundup	Garlon 600		1	200		L	ml		15	isabella plains, poplar
17	2017	9	Copelin, Malcolm	Warren, Daniel	Agostini, Jess	20-Oct-17	Pest Management	Tuggeranong-Pest Mgte	6	Environmental Weed	Open Space	Dryland grass	Garlon 600	Red Dye		200	100		ml	ml		10	various, broom control
17	2017	10	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	21-Oct-17	Pest Management	Woden/Weston-Pest Mgte	24	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		370	various stormwater sites

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17	2017	11	Patterson, Daniel	Evans, Gabriel		21-Oct-17	Pest Management	Inner South-Pest Mgte	12	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		120	various stormwater
17	2017	12	Schultz, Peter			21-Oct-17	Pest Management	Inner South-Pest Mgte	1	Insect Pests	Nature Strip	Trees	Permethin Dust			200			g			200	used 200g
17	2017	13	Schultz, Peter			21-Oct-17	Pest Management	Inner South-Pest Mgte	2	Insect Pests	Building Surrounds	Hardstanding areas	Tempo			0			ml			30	narrabundah school, ants
17	2017	14	Schultz, Peter			21-Oct-17	Pest Management	Woden/Weston-Pest Mgte	3	Insect Pests	Building Surrounds	Hardstanding areas	Tempo			1			ml			150	phillip ants
17	2017	15	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	23-Oct-17	Pest Management	S&R South	20	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	500	kambah, greenway
17	2017	16	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	23-Oct-17	Pest Management	Tuggeranong-Pest Mgte	1	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Red Dye		1	100		L	ml		20	floral beds
17	2017	17	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	23-Oct-17	Pest Management	City-Pest Mgte	1	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Red Dye		1	100		L	ml		40	city hill
17	2017	18	Patterson, Daniel	Evans, Gabriel		23-Oct-17	Pest Management	S&R North	12	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	various
17	2017	19	Patterson, Daniel	Evans, Gabriel		23-Oct-17	Pest Management	S&R South	4	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	50	narrabundah
17	2017	20	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	24-Oct-17	Pest Management	S&R South	6	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	170	narra
17	2017	21	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	24-Oct-17	Pest Management	Inner South-Pest Mgte	4	Environmental Weed	Open Space	Plant Foliage	Glyphosate			1			L			35	narra
17	2017	22	Copelin, Malcolm	Warren, Daniel	Agostini, Jess	24-Oct-17	Pest Management	Inner South-Pest Mgte	12	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	griffith
17	2017	23	Patterson, Daniel	Evans, Gabriel		24-Oct-17	Pest Management	S&R North	4	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	jamo
17	2017	24	Patterson, Daniel	Evans, Gabriel		24-Oct-17	Pest Management	S&R South	8	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	narrabundah
17	2017	25	Patterson, Daniel	Evans, Gabriel		24-Oct-17	Pest Management	Inner South-Pest Mgte	4	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	ski club
17	2017	26	Copelin, Malcolm	Warren, Daniel	Agostini, Jess	25-Oct-17	Pest Management	Inner South-Pest Mgte	14	General Weed	Medians	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	forrest medians, narra shrub beds
17	2017	27	Agostini, Jess	Copelin, Malcolm	Warren, Daniel	25-Oct-17	Pest Management	Gungahlin-Pest Mgte	3	Selective Weeds	Open Space	Dryland grass	Herbicide			3			ml			30	kambah, alg. used barricade
17	2017	28	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	25-Oct-17	Pest Management	Gungahlin-Pest Mgte	2	Selective Weeds	Open Space	Dryland grass	Primo Maxx			3			ml			90	various
17	2017	29	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	25-Oct-17	Pest Management	Tuggeranong-Pest Mgte	3	Plant Health	Oval Surrounds	Irrigated grass	Ferilizer			0			g			30	various

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
17	2017	30	Patterson, Daniel	Evans, Gabriel		25-Oct-17	Pest Management	Inner South-Pest Mgte	16	Environmental Weed	Open Space	Plant Foliage	Glyphosate	Red Dye		1	100		L	ml		55	various sites. broom & gorse
18	2017	1	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	26-Oct-17	Pest Management	S&R South	6	Selective Weeds	Oval Surrounds	Dryland grass	Double Time			100			ml			1200	various
18	2017	2	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	26-Oct-17	Pest Management	S&R South	12	Environmental Weed	Oval Surrounds	Dryland grass	Glyphosate	Red Dye		1	100		L	ml		100	paspalum control
18	2017	3	Agostini, Jess	Copelin, Malcolm	Warren, Daniel	26-Oct-17	Pest Management	Tuggeranong-Pest Mgte	6	Environmental Weed	Open Space	Dryland grass	Glyphosate	Red Dye		1	100		L	ml		40	broom
18	2017	4	Evans, Gabriel			26-Oct-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	120	forrest
18	2017	5	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	27-Oct-17	Pest Management	Inner South-Pest Mgte	24	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	1000	adelaide ave
18	2017	6	Patterson, Daniel	Evans, Gabriel		27-Oct-17	Pest Management	City-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	london cct, police, shrub beds
18	2017	7	Patterson, Daniel	Evans, Gabriel		27-Oct-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	hindmarsh dr, dfo
18	2017	8	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	28-Oct-17	Pest Management	Woden/Weston-Pest Mgte	30	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		800	long gully, yarra
18	2017	9	Schultz, Peter			28-Oct-17	Pest Management	Belconnen-Pest Mgte	2	Insect Pests	Open Space	Trees	Permethin Dust			0			g			200	bees. used 200g
18	2017	10	Schultz, Peter			28-Oct-17	Pest Management	Inner North-Pest Mgte	4	Insect Pests	Building Surrounds	Hardstanding areas	Tempo			100			ml			80	ants, bus stops
18	2017	11	Copelin, Malcolm	Warren, Daniel	Agostini, Jess	30-Oct-17	Pest Management	Inner South-Pest Mgte	24	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	500	adelaide ave, yarralumla
18	2017	12	Patterson, Daniel	Evans, Gabriel		30-Oct-17	Pest Management	City-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	london cct, shrub bed
18	2017	13	Patterson, Daniel	Evans, Gabriel		30-Oct-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	DFO shrub beds
18	2017	14	Agostini, Jess	Copelin, Malcolm	Warren, Daniel	31-Oct-17	Pest Management	City-Pest Mgte	3	Pests & Disease	Floral displays	Plant Foliage	Procide	Mallet		25			ml			150	vet and glebe parks
18	2017	15	Agostini, Jess	Copelin, Malcolm	Warren, Daniel	31-Oct-17	Pest Management	Inner South-Pest Mgte	3	Pests & Disease	Floral displays	Plant Foliage	Procide	Mallet		25			ml			150	english gardens
18	2017	16	Copelin, Malcolm	Warren, Daniel	Agostini, Jess	31-Oct-17	Pest Management	Inner South-Pest Mgte	16	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	various shrub bds
18	2017	17	Patterson, Daniel	Evans, Gabriel		31-Oct-17	Pest Management	City-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	clover leaf, bunda st

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18	2017	18	Patterson, Daniel	Evans, Gabriel		31-Oct-17	Pest Management	Inner South-Pest Mgte	4	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	monaro highway
18	2017	19	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	01-Nov-17	Pest Management	Inner South-Pest Mgte	3	Pests & Disease	Floral displays	Plant Foliage	Procide	Mallet		25			ml			250	lennox, hyatt
18	2017	20	Agostini, Jess	Copelin, Malcolm	Warren, Daniel	01-Nov-17	Pest Management	Tuggeranong-Pest Mgte	2	Pests & Disease	Floral displays	Plant Foliage	Procide	Mallet		25			ml			100	tugg town park
18	2017	21	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	01-Nov-17	Pest Management	Inner South-Pest Mgte	14	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	adelaide ave,
18	2017	22	Patterson, Daniel	Evans, Gabriel		01-Nov-17	Pest Management	Belconnen-Pest Mgte	6	Pests & Disease	Trees	Plant Foliage	Procide	Mallet		25			ml			30	marg tim park, belco depot
18	2017	23	Patterson, Daniel	Evans, Gabriel		01-Nov-17	Pest Management	S&R North	6	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									1000	hawker, holt
18	2017	24	Patterson, Daniel	Evans, Gabriel		01-Nov-17	Pest Management	S&R North	4	Selective Weeds	Oval Surrounds	Irrigated grass	Monument			225						600	hawker softball
19	2017	1	Copelin, Malcolm	Agostini, Jess		02-Nov-17	Pest Management	S&R South	3	Selective Weeds	Oval Surrounds	Irrigated grass	Plant Health product									750	woden park
19	2017	2	Copelin, Malcolm	Agostini, Jess		02-Nov-17	Pest Management	S&R South	2	Plant Health	Oval Surrounds	Irrigated grass	Double Time			100			ml			100	phillip/woden park
19	2017	3	Copelin, Malcolm	Agostini, Jess		02-Nov-17	Pest Management	S&R South	2	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									450	greenway
19	2017	4	Copelin, Malcolm	Agostini, Jess		02-Nov-17	Pest Management	S&R South	2	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									400	basebal narra
19	2017	5	Copelin, Malcolm	Agostini, Jess		02-Nov-17	Pest Management	S&R North	7	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									2100	various
19	2017	6	Evans, Gabriel			02-Nov-17	Pest Management	City-Pest Mgte	3	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Red Dye		1	100		L	ml		100	civic
19	2017	7	Evans, Gabriel			02-Nov-17	Pest Management	Inner South-Pest Mgte	5	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	narrabundah
19	2017	8	Copelin, Malcolm	Warren, Daniel		03-Nov-17	Pest Management	S&R North	8	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									2000	harrison, nicholls
19	2017	9	Copelin, Malcolm	Warren, Daniel		03-Nov-17	Pest Management	S&R South	8	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									2300	various
19	2017	10	Evans, Gabriel			03-Nov-17	Pest Management	Inner South-Pest Mgte	6	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	canberra ave
19	2017	11	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	04-Nov-17	Pest Management	Tuggeranong-Pest Mgte	30	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		700	various. + g. evans
19	2017	12	Schultz, Peter			04-Nov-17	Pest Management	Woden/Weston-Pest Mgte	3	Insect Pests	Open Space	Hardstanding areas	Tempo			100			ml			50	various, ants

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19	2017	13	Schultz, Peter			04-Nov-17	Pest Management	Woden/Weston-Pest Mgte	3	Sucker Control	Aquatic Areas	Trees	Glyphosate			5			L			1	suckers. mawson drains
19	2017	14	Copelin, Malcolm	Agostini, Jess		07-Nov-17	Pest Management	Inner South-Pest Mgte	14	General Weed	Roadways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	4000	adelaide ave, canberra ave
19	2017	15	Patterson, Daniel			07-Nov-17	Pest Management	Gungahlin-Pest Mgte	8	Environmental Weed	Open Space	Dryland grass	Glyphosate	Red Dye		1	100		L	ml		50	broom,gorse
19	2017	16	Warren, Daniel			07-Nov-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Roadways	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	bowen dr, canb ave
19	2017	17	Copelin, Malcolm	Agostini, Jess		08-Nov-17	Pest Management	Inner South-Pest Mgte	14	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	450	hindmarsh dr, yarralumla o/s
19	2017	18	Patterson, Daniel	Evans, Gabriel		08-Nov-17	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	various
19	2017	19	Patterson, Daniel	Evans, Gabriel		08-Nov-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	canb ave, monaro hwy, dfo
19	2017	20	Warren, Daniel			08-Nov-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Medians	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	various medians
43	2017	1	Copelin, Malcolm	Agostini, Jess		19-Apr-18	Pest Management	S&R North	14	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	various
43	2017	2	Patterson, Daniel	Hourigan, Celia		19-Apr-18	Pest Management	S&R North	14	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
43	2017	3	Agostini, Jess	Copelin, Malcolm		20-Apr-18	Pest Management	S&R South	8	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	various
43	2017	4	Agostini, Jess	Copelin, Malcolm		20-Apr-18	Pest Management	Environmental Weed Mgte	8	Selective Weeds	Open Space	Dryland grass	Taskforce			200			ml			200	african love grss
43	2017	5	Copelin, Malcolm	Agostini, Jess	Roberts, Jayne	21-Apr-18	Pest Management	S&R South	18	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
43	2017	6	Schultz, Peter			21-Apr-18	Pest Management	Woden/Weston-Pest Mgte	3	Insect Pests	Open Space	Dryland grass	Tempo			0			ml			70	ants, mawson, phillip
43	2017	7	Schultz, Peter			21-Apr-18	Pest Management	Inner North-Pest Mgte	3	Sucker Control	Open Space	Trees	Roundup			1			L			1	suckers, haig park
43	2017	8	Copelin, Malcolm			23-Apr-18	Pest Management	S&R South	7	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
43	2017	9	Copelin, Malcolm	Agostini, Jess		24-Apr-18	Pest Management	S&R South	14	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
43	2017	10	Patterson, Daniel			24-Apr-18	Pest Management	S&R North	8	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	various

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21	2017	1	Copelin, Malcolm	Agostini, Jess		16-Nov-17	Pest Management	Inner South-Pest Mgte	14	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	griffith, hume
21	2017	2	Copelin, Malcolm	Agostini, Jess		16-Nov-17	Pest Management	Environmental Weed Mgte	2	Environmental Weed	Open Space	Dryland grass	Glyphosate			1			L			5	various inner south sites
21	2017	3	Patterson, Daniel	Evans, Gabriel		16-Nov-17	Pest Management	City-Pest Mgte	12	General Weed	Building Surrounds	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	glebe pk, bunda st building aurrounds
21	2017	4	Patterson, Daniel	Evans, Gabriel		16-Nov-17	Pest Management	Inner South-Pest Mgte	2	Sucker Control	Trees	Trees	Glyphosate			1			L			1	ipswitch st suckers
21	2017	5	Evans, Gabriel			17-Nov-17	Pest Management	City-Pest Mgte	6	General Weed	Building Surrounds	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	alara st, glebe park
21	2017	6	Warren, Daniel			17-Nov-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	various
21	2017	7	Copelin, Malcolm	Warren, Daniel		18-Nov-17	Pest Management	Belconnen-Pest Mgte	2	Insect Pests	Open Space	Dryland grass	Tempo			0			ml			50	ants nest. florey
21	2017	8	Copelin, Malcolm	Warren, Daniel		18-Nov-17	Pest Management	Gungahlin-Pest Mgte	1	Environmental Weed	Open Space	Dryland grass	Glyphosate			1			L			0	crace
21	2017	9	Schultz, Peter			18-Nov-17	Pest Management	City-Pest Mgte	3	Insect Pests	Building Surrounds	Dryland grass	Tempo			1			ml			40	civic, ants. bus stop
21	2017	10	Schultz, Peter			18-Nov-17	Pest Management	Inner North-Pest Mgte	3	Sucker Control	Trees	Trees	Roundup			2			L			1	cut and dab
21	2017	11	Copelin, Malcolm			20-Nov-17	Pest Management	Inner South-Pest Mgte	3	General Weed	Roadside Features	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	monaro highway
21	2017	12	Copelin, Malcolm			20-Nov-17	Pest Management	Inner South-Pest Mgte	5	General Weed	Roadways	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		180	red hill/ yarra. curb and gutter
21	2017	13	Warren, Daniel			20-Nov-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Roadways	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		250	various sites. curb and gutter
21	2017	14	Evans, Gabriel			20-Nov-17	Pest Management	City-Pest Mgte	6	General Weed	Roadways	Hardstanding areas	Glyphosate	Red Dye		1	100	0	L	ml		150	childes st
21	2017	15	Evans, Gabriel			20-Nov-17	Pest Management	Inner South-Pest Mgte	2	General Weed	Roadways	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		50	matina st
21	2017	16	Copelin, Malcolm	Agostini, Jess		21-Nov-17	Pest Management	Inner South-Pest Mgte	14	General Weed	Roadways	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		250	curb and gutter. various
21	2017	17	Patterson, Daniel			21-Nov-17	Pest Management	City-Pest Mgte	4	General Weed	Building Surrounds	Buildings & Structures	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	city west building

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21	2017	18	Patterson, Daniel			21-Nov-17	Pest Management	Inner South-Pest Mgte	4	General Weed	Roadside Features	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	dairy flat road
21	2017	19	Warren, Daniel			21-Nov-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	various
21	2017	20	Patterson, Daniel	Evans, Gabriel		22-Nov-17	Pest Management	City-Pest Mgte	12	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	various
21	2017	21	Patterson, Daniel	Evans, Gabriel		22-Nov-17	Pest Management	Inner South-Pest Mgte	4	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	50	dfo
21	2017	22	Copelin, Malcolm	Agostini, Jess		22-Nov-17	Pest Management	Environmental Weed Mgte	14	Environmental Weed	Open Space	Dryland grass	Glyphosate	Lynx		1	10		L	g		400	various sites
21	2017	23	Warren, Daniel			22-Nov-17	Pest Management	S&R South	8	Environmental Weed	Open Space	Dryland grass	Glyphosate	Lynx	Red Dye	1	10	100	L	g	ml	250	cotter plots
22	2017	1	Patterson, Daniel	Evans, Gabriel		23-Nov-17	Pest Management	Environmental Weed Mgte	16	Environmental Weed	Open Space	Dryland grass	Garlon 600	Agral 600	Red Dye	170	20	100	ml	ml	ml	350	various sites
22	2017	2	Agostini, Jess	Copelin, Malcolm		23-Nov-17	Pest Management	Tuggeranong-Pest Mgte	8	Sucker Control	Trees	Trees	Garlon 600	Agral 600	Red Dye	170	20	100	ml	ml	ml	200	various
22	2017	3	Copelin, Malcolm	Agostini, Jess		23-Nov-17	Pest Management	Environmental Weed Mgte	8	Environmental Weed	Open Space	Dryland grass	Lynx	Agral 600		10	20		g	ml		265	various
22	2017	4	Warren, Daniel			23-Nov-17	Pest Management	Environmental Weed Mgte	8	Environmental Weed	Aquatic Areas	Plant Foliage	Lynx	Glyphosate		10	1		g	L		150	isabella pond
22	2017	5	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	24-Nov-17	Pest Management	Environmental Weed Mgte	6	Environmental Weed	Open Space	Dryland grass	Lynx	Red Dye		10	100		g	ml		600	weston park
22	2017	6	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	24-Nov-17	Pest Management	Inner South-Pest Mgte	8	Sucker Control	Open Space	Trees	Garlon 600	Agral 600		170	20		ml	ml		300	weston park
22	2017	7	Patterson, Daniel	Evans, Gabriel		24-Nov-17	Pest Management	Environmental Weed Mgte	16	Environmental Weed	Open Space	Dryland grass	Garlon 600	Agral 600	Lynx	170	20	10	ml	ml	g	300	blackberrry
22	2017	8	Copelin, Malcolm	Agostini, Jess		25-Nov-17	Pest Management	Environmental Weed Mgte	18	Environmental Weed	Aquatic Areas	Plant Foliage	Glyphosate	Lynx	Red Dye	1	10	100	L	g	ml	250	ponds
22	2017	9	Copelin, Malcolm	Agostini, Jess	Roberts, Jayne	25-Nov-17	Pest Management	Tuggeranong-Pest Mgte	6	General Weed	Open Space	Dryland grass	Glyphosate	Red Dye		1	100		L	ml		50	gordon
23	2017	1	Copelin, Malcolm	Agostini, Jess		30-Nov-17	Pest Management	Yarralumla Nursery	4	General Weed	Open Space	Mulched or cultivated	Glyphosate	Red Dye		1	100		L	ml		200	used barricade. section 10
23	2017	2	Copelin, Malcolm	Agostini, Jess		30-Nov-17	Pest Management	Tuggeranong-Pest Mgte	8	Selective Weeds	Shrub beds	Mulched or cultivated	Fusilade 212	Agral 600	Red Dye	400	20	100	ml	ml	ml	120	various

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
23	2017	3	Copelin, Malcolm	Agostini, Jess		30-Nov-17	Pest Management	Woden/Weston-Pest Mgte	2	Selective Weeds	Shrub beds	Mulched or cultivated	Fusilade 212	Agral 600	Red Dye	400	20	100	ml	ml	ml	40	various
23	2017	4	Copelin, Malcolm	Agostini, Jess		30-Nov-17	Pest Management	Inner South-Pest Mgte	2	Selective Weeds	Shrub beds	Mulched or cultivated	Fusilade 212	Agral 600	Red Dye	400	20	100	ml	ml	ml	40	various
23	2017	5	Warren, Daniel	Evans, Gabriel		30-Nov-17	Pest Management	Tuggeranong-Pest Mgte	16	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		250	stormwater channels
23	2017	6	Warren, Daniel	Patterson, Daniel		01-Dec-17	Pest Management	Environmental Weed Mgte	16	Selective Weeds	Open Space	Dryland grass	Garlon 600	Agral 600	Red Dye	170	20	100	ml	ml	ml	200	blackberries, suckers, broom
23	2017	7	Copelin, Malcolm			01-Dec-17	Pest Management	Yarralumla Nursery	3	General Weed	Open Space	Mulched or cultivated	Glyphosate	Red Dye		1	100	0	L	ml		200	used barricade. section 9
23	2017	8	Copelin, Malcolm			01-Dec-17	Pest Management	Yarralumla Nursery	1	Pests & Disease	Open Space	Dryland grass	Pyrethrum			600			ml			5	moths
23	2017	9	Copelin, Malcolm			01-Dec-17	Pest Management	Environmental Weed Mgte	4	Selective Weeds	Open Space	Dryland grass	Lynx	Glyphosate	Red Dye	10	1	100	g	L	ml	200	blackberry
23	2017	10	Evans, Gabriel			01-Dec-17	Pest Management	Tuggeranong-Pest Mgte	8	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		100	stormwater. sulwood, athlon, theodore
23	2017	11	Copelin, Malcolm	Agostini, Jess	Roberts, Jayne	04-Dec-17	Pest Management	Yarralumla Nursery	4	General Weed	Carparks & pedestrian areas	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	surrounds
23	2017	12	Copelin, Malcolm	Agostini, Jess	Roberts, Jayne	04-Dec-17	Pest Management	Inner South-Pest Mgte	4	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	deakin carpark
23	2017	13	Patterson, Daniel	Evans, Gabriel		04-Dec-17	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	50	city west IGA
23	2017	14	Patterson, Daniel	Evans, Gabriel		04-Dec-17	Pest Management	Inner South-Pest Mgte	4	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	narrabundah laneways
23	2017	15	Patterson, Daniel	Evans, Gabriel		05-Dec-17	Pest Management	City-Pest Mgte	8	General Weed	Building Surrounds	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	80	darwin place
23	2017	16	Patterson, Daniel	Evans, Gabriel		05-Dec-17	Pest Management	Inner South-Pest Mgte	4	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	120	narrabundah laneways
23	2017	17	Warren, Daniel	Roberts, Jayne	Agostini, Jess	05-Dec-17	Pest Management	Environmental Weed Mgte	10	Selective Weeds	Open Space	Dryland grass	Glyphosate	Red Dye	Lynx	1	100	10	L	ml	g	200	forrest
23	2017	18	Warren, Daniel	Patterson, Daniel	Evans, Gabriel	05-Dec-17	Pest Management	S&R North	24	Domestic & Enviro Pests	Turf areas	Irrigated grass	Acelepryn						ml			5300	used 750ml/ha
23	2017	19	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	06-Dec-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	yarra/ deakin

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
23	2017	20	Copelin, Malcolm	Agostini, Jess	Roberts, Jayne	06-Dec-17	Pest Management	S&R South	6	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									1975	used greenmax 20l/ha, prima 125l, mlr 8 250l
24	2017	1	Copelin, Malcolm	Agostini, Jess		07-Oct-17	Pest Management	Inner South-Pest Mgte	16	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	450	various
24	2017	2	Patterson, Daniel	Evans, Gabriel		07-Oct-17	Pest Management	City-Pest Mgte	6	General Weed	Building Surrounds	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	building surrounds
24	2017	3	Patterson, Daniel	Evans, Gabriel		07-Oct-17	Pest Management	Inner South-Pest Mgte	10	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	fysh depot, ski club, narra laneways
24	2017	4	Warren, Daniel	Roberts, Jayne		07-Oct-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	griffith
24	2017	5	Agostini, Jess	Copelin, Malcolm		08-Oct-17	Pest Management	Inner South-Pest Mgte	16	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	various
24	2017	6	Patterson, Daniel	Evans, Gabriel		08-Oct-17	Pest Management	Inner South-Pest Mgte	14	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	narra shops/laneways
24	2017	7	Warren, Daniel			08-Oct-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	griffith/narra
24	2017	8	Copelin, Malcolm	Agostini, Jess		09-Oct-17	Pest Management	Inner South-Pest Mgte	12	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	manuka shops
24	2017	9	Warren, Daniel	Roberts, Jayne		09-Dec-17	Pest Management	Yarralumla Nursery	12	General Weed	Paths & pavings	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	500	100	L	g	ml	600	section 2,3 and surrounds
24	2017	10	Patterson, Daniel	Evans, Gabriel		09-Dec-17	Pest Management	City-Pest Mgte	6	General Weed	Building Surrounds	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	convention centre, casino surrounds
24	2017	11	Patterson, Daniel	Evans, Gabriel	Schultz, Peter	09-Dec-17	Pest Management	Gungahlin-Pest Mgte	12	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Pulse	Red Dye	1	200	100	L	ml	ml	250	stormwater
24	2017	12	Copelin, Malcolm	Agostini, Jess		11-Dec-17	Pest Management	Inner South-Pest Mgte	16	General Weed	Open Space	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	pescott lane, lennox, yarra bay
24	2017	13	Copelin, Malcolm	Patterson, Daniel		12-Dec-17	Floriade 17	General-non specific	10	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	450	various sections
24	2017	14	Copelin, Malcolm	Agostini, Jess		12-Dec-17	Pest Management	Inner South-Pest Mgte	8	Environmental Weed	Open Space	Plant Foliage	Lynx	Glyphosate		10	1		g	L		250	yarra bay
24	2017	15	Copelin, Malcolm	Agostini, Jess		12-Dec-17	Pest Management	Tuggeranong-Pest Mgte	2	Insect Pests	Open Space	Mulched or cultivated	Tempo			0			ml			50	kambah ants
24	2017	16	Copelin, Malcolm	Agostini, Jess		12-Dec-17	Pest Management	Tuggeranong-Pest Mgte	2	Insect Pests	Open Space	Mulched or cultivated	Tempo			0			ml			40	gordon ants
24	2017	17	Patterson, Daniel	Evans, Gabriel		12-Dec-17	Pest Management	Inner South-Pest Mgte	6	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	narra laneways

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24	2017	18	Warren, Daniel			12-Dec-17	Pest Management	Inner South-Pest Mgte	5	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	forrest laneways
24	2017	19	Copelin, Malcolm	Agostini, Jess		12-Dec-17	Pest Management	S&R North	16	Insect Pests	Turf areas	Irrigated grass	Acelepryn			750			ml			4050	various ovals, scarabs. used 750ml/ha
24	2017	20	Patterson, Daniel	Evans, Gabriel		12-Dec-17	Pest Management	S&R North	16	Insect Pests	Turf areas	Irrigated grass	Acelepryn			750			ml			4050	various ovals, scarabs. used 750ml/ha
24	2017	21	Warren, Daniel	Roberts, Jayne		13-Dec-17	Pest Management	Inner South-Pest Mgte	8	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
27	2017	1	Copelin, Malcolm	Agostini, Jess		02-Jan-18	Pest Management	City-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Ecocarb	Eco Oil		400			ml			100	glebe/vet park
27	2017	2	Copelin, Malcolm	Agostini, Jess		02-Jan-18	Pest Management	Woden/Weston-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Ecocarb	Eco Oil		400			ml			10	edison park
27	2017	3	Copelin, Malcolm	Agostini, Jess		02-Jan-18	Pest Management	Inner South-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Ecocarb	Eco Oil		400			ml			45	lennox, english gdn, hyatt,
27	2017	4	Copelin, Malcolm	Agostini, Jess		02-Jan-18	Pest Management	Tuggeranong-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Ecocarb	Eco Oil		400			ml			10	tugg town park
27	2017	5	Copelin, Malcolm	Agostini, Jess		02-Jan-18	Pest Management	S&R South	1	Plant Health	Turf areas	Irrigated grass	Plant Health product									400	used biosea, lockout. narrabundah baseball
27	2017	6	Copelin, Malcolm	Agostini, Jess		02-Jan-18	Pest Management	S&R South	7	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									1600	used biosea
27	2017	7	Copelin, Malcolm	Agostini, Jess		02-Jan-18	Pest Management	Inner South-Pest Mgte	2	Sucker Control	Trees	Trees	Garlon 600	Agral 600	Red Dye	170	20	100	ml	ml	ml	75	deakin, suckers
27	2017	8	Patterson, Daniel	Warren, Daniel		02-Jan-18	Pest Management	Belconnen-Pest Mgte	2	Pests & Disease	Floral displays	Plant Foliage	Ecocarb	Eco Oil		400			ml			10	marg tim park, roses
27	2017	9	Patterson, Daniel	Warren, Daniel		02-Jan-18	Pest Management	Environmental Weed Mgte	4	Environmental Weed	Open Space	Plant Foliage	Garlon 600	Agral 600	Red Dye	170	20	100	ml	ml	ml	100	various
27	2017	10	Patterson, Daniel	Warren, Daniel		02-Jan-18	Pest Management	Belconnen-Pest Mgte	6	Sucker Control	Trees	Trees	Garlon 600	Agral 600	Red Dye	170	20	100	ml	ml	ml	100	holt, suckers
27	2017	11	Patterson, Daniel	Warren, Daniel		02-Jan-18	Pest Management	S&R North	4	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									800	harrison. used biosea
22	2017	10	Patterson, Daniel	Warren, Daniel		25-Nov-17	Pest Management	Environmental Weed Mgte	12	Environmental Weed	Aquatic Areas	Plant Foliage	Lynx	Red Dye		10	100		g	ml		60	ponds
22	2017	11	Schultz, Peter			25-Nov-17	Pest Management	Tuggeranong-Pest Mgte	4	Insect Pests	Open Space	Dryland grass	Tempo			1			ml			80	ants x4
22	2017	12	Schultz, Peter			25-Nov-17	Pest Management	Woden/Weston-Pest Mgte	2	Sucker Control	Cycle paths	Trees	Roundup			2			L			1	suckers along cycle path

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
22	2017	13	Copelin, Malcolm	Agostini, Jess		27-Nov-17	Pest Management	S&R South	8	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									2200	used lockout, biosea. various ovals
22	2017	14	Copelin, Malcolm	Agostini, Jess		27-Nov-17	Pest Management	S&R North	5	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									1500	used biosea
22	2017	15	Patterson, Daniel			27-Nov-17	Pest Management	S&R North	8	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									2000	used biosea
22	2017	16	Agostini, Jess	Copelin, Malcolm		28-Nov-17	Pest Management	Environmental Weed Mgte	11	Environmental Weed	Open Space	Dryland grass	Glyphosate	Lynx	Red Dye	1	10	100	L	g	ml	275	parkland
22	2017	17	Copelin, Malcolm	Warren, Daniel	Patterson, Daniel	28-Nov-17	Pest Management	Yarralumla Nursery	8	General Weed	Ornamental plants	Mulched or cultivated	Glyphosate	Red Dye		1	100	60	L	ml		400	sections 4-7
22	2017	18	Patterson, Daniel	Warren, Daniel		28-Nov-17	Pest Management	Environmental Weed Mgte	11	Environmental Weed	Open Space	Dryland grass	Lynx	Agral 600	Glyphosate	10	20	1	g	ml	L	150	open space
22	2017	19	Evans, Gabriel			28-Nov-17	Pest Management	Belconnen-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Ecocarb	Eco Oil		400			ml			25	roses. margret tim
22	2017	20	Evans, Gabriel			28-Nov-17	Pest Management	Tuggeranong-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Ecocarb	Eco Oil		400			ml			10	tugg town park, roses
22	2017	21	Evans, Gabriel			28-Nov-17	Pest Management	Inner South-Pest Mgte	3	Pests & Disease	Floral displays	Plant Foliage	Ecocarb	Eco Oil		400			ml			50	lennox, hyatt, english gardens. roses
22	2017	22	Evans, Gabriel			28-Nov-17	Pest Management	Woden/Weston-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Ecocarb	Eco Oil		400			ml			5	eddison park. roses
22	2017	23	Evans, Gabriel			28-Nov-17	Pest Management	City-Pest Mgte	2	Pests & Disease	Floral displays	Plant Foliage	Ecocarb	Eco Oil		400			ml			40	glebe, vet park
22	2017	24	Patterson, Daniel	Warren, Daniel	Evans, Gabriel	28-Nov-17	Pest Management	S&R North	24	Domestic & Enviro Pests	Oval Surrounds	Irrigated grass	Acelepryn			750			ml			5720	750ml per ha
22	2017	25	Copelin, Malcolm	Agostini, Jess		29-Nov-17	Pest Management	Yarralumla Nursery	6	General Weed	Floral displays	Mulched or cultivated	Glyphosate	Red Dye		1	100		L	ml		400	used barricade. section 8
22	2017	26	Copelin, Malcolm	Agostini, Jess		29-Nov-17	Pest Management	Environmental Weed Mgte	7	Environmental Weed	Open Space	Dryland grass	Lynx	Glyphosate	Red Dye	10	1	100	g	L	ml	300	various
22	2017	27	Copelin, Malcolm	Agostini, Jess		29-Nov-17	Pest Management	Environmental Weed Mgte	1	Selective Weeds	Open Space	Dryland grass	Fusilade 212	Agral 600	Red Dye	400	20	100	ml	ml	ml	10	marg tim park
27	2017	12	Patterson, Daniel	Warren, Daniel		03-Jan-18	Pest Management	S&R North	14	Plant Health	Turf areas	Irrigated grass	Plant Health product									2800	used biosea, various
27	2017	13	Copelin, Malcolm	Agostini, Jess		03-Jan-18	Pest Management	Tuggeranong-Pest Mgte	12	Sucker Control	Open Space	Trees	Garlon 600	Agral 600	Red Dye	170	20	100	ml	ml	ml	350	suckers
27	2017	14	Copelin, Malcolm	Agostini, Jess		03-Jan-18	Pest Management	Tuggeranong-Pest Mgte	2	Insect Pests	Roadways	Dryland grass	Tempo			0			ml			50	ants. kambah
27	2017	15	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	03-Jan-18	Pest Management	S&R South	24	Insect Pests	Turf areas	Irrigated grass	Acelepryn						ml			6000	scarabs

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27	2017	16	Warren, Daniel			03-Jan-18	Pest Management	Inner South-Pest Mgte	8	Insect Pests	Turf areas	Irrigated grass	Acelepryn						ml			500	kingston foreshore, norgrove park
28	2017	1	Copelin, Malcolm	Agostini, Jess		05-Jan-18	Pest Management	Tuggeranong-Pest Mgte	16	Pre-emergent	Roadways	Mulched or cultivated	Mojo	Glyphosate	Red Dye	1	1	100	g	L	ml	400	various roads
28	2017	2	Patterson, Daniel	Warren, Daniel		05-Jan-18	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Roadways	Mulched or cultivated	Mojo	Glyphosate	Red Dye	1	1	100	g	L	ml	400	various roads
28	2017	3	Copelin, Malcolm	Agostini, Jess		06-Jan-18	Pest Management	Inner North-Pest Mgte	8	Pre-emergent	Medians	Mulched or cultivated	Mojo	Glyphosate	Red Dye	1	1	100	g	L	ml	300	barry dr, parkes way
28	2017	4	Copelin, Malcolm	Agostini, Jess		06-Jan-18	Pest Management	Inner South-Pest Mgte	4	Pre-emergent	Roadways	Mulched or cultivated	Mojo	Glyphosate	Red Dye	1	1	100	g	L	ml	100	fyshwick
28	2017	5	Patterson, Daniel	Warren, Daniel		06-Jan-18	Pest Management	Gungahlin-Pest Mgte	4	Pre-emergent	Medians	Mulched or cultivated	Mojo	Glyphosate	Red Dye	1	1	100	g	L	ml	50	gungahlin dr, mitchell
28	2017	6	Patterson, Daniel	Warren, Daniel		06-Jan-18	Pest Management	City-Pest Mgte	4	Pre-emergent	Medians	Mulched or cultivated	Mojo	Glyphosate	Red Dye	1	1	100	g	L	ml	200	various roads
28	2017	7	Patterson, Daniel	Warren, Daniel		06-Jan-18	Pest Management	Inner South-Pest Mgte	4	Pre-emergent	Roadways	Mulched or cultivated	Mojo	Glyphosate	Red Dye	1	1	100	g	L	ml	150	fyshwick
28	2017	8	Schultz, Peter			06-Jan-18	Pest Management	Inner North-Pest Mgte	3	Insect Pests	Open Space	Nature Strip	Tempo			100			ml			80	braddon/ ainslie
28	2017	9	Schultz, Peter			06-Jan-18	Pest Management	Woden/Weston-Pest Mgte	3	Sucker Control	Trees	Trees	Roundup			20			L			1	mawson
28	2017	10	Copelin, Malcolm	Agostini, Jess		08-Jan-18	Floriade 17	General-non specific	3	General Weed	Open Space	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		200	pialligo soil yard, comm park
28	2017	11	Copelin, Malcolm	Agostini, Jess		08-Jan-18	Pest Management	Tuggeranong-Pest Mgte	1	General Weed	Open Space	Dryland grass	Glyphosate	Red Dye		1	100		L	ml		20	kambah
28	2017	12	Copelin, Malcolm	Agostini, Jess		08-Jan-18	Pest Management	Woden/Weston-Pest Mgte	12	Pre-emergent	Medians	Mulched or cultivated	Mojo	Glyphosate	Red Dye	1	1	100	g	L	ml	250	various
28	2017	13	Patterson, Daniel	Warren, Daniel		09-Jan-18	Pest Management	S&R North	14	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	hawker softball
28	2017	14	Copelin, Malcolm	Agostini, Jess		09-Jan-18	Pest Management	Tuggeranong-Pest Mgte	4	Sucker Control	Open Space	Trees	Garlon 600	Agral 600		170	20		ml	ml		200	various sites
28	2017	15	Copelin, Malcolm	Agostini, Jess		09-Jan-18	Pest Management	Woden/Weston-Pest Mgte	4	Sucker Control	Open Space	Trees	Garlon 600	Agral 600		170	20		ml	ml		150	various sites
28	2017	16	Copelin, Malcolm	Agostini, Jess		09-Jan-18	Pest Management	Environmental Weed Mgte	6	Environmental Weed	Open Space	Plant Foliage	Lynx	Red Dye		10	100		g	ml		300	various sites
28	2017	17	Schultz, Peter			09-Jan-18	Pest Management	Inner South-Pest Mgte	1	Insect Pests	Trees	Trees	Permethin Dust			200			g			200	barton, bees/. used 200g

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
28	2017	18	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	09-Jan-18	Pest Management	S&R South	30	Insect Pests	Turf areas	Irrigated grass	Acelepryn						ml			6000	also D.Patterson. scarabs
28	2017	19	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	09-Jan-18	Pest Management	Tuggeranong-Pest Mgte	2	Insect Pests	Open Space	Irrigated grass	Acelepryn						ml			300	also D.Patterson. scarabs, tugg town park
28	2017	20	Roberts, Jayne			10-Jan-18	Pest Management	Environmental Weed Mgte	8	Environmental Weed	Roadways	Plant Foliage	Garlon 600	Agral 600	Red Dye	170	20	100	ml	ml	ml	150	adelaide ave
26	2017	1	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	21-Dec-17	Pest Management	Inner South-Pest Mgte	22	General Weed	Open Space	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	900	weston pk, english gardens
26	2017	2	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	21-Dec-17	Pest Management	S&R South	2	Plant Health	Turf areas	Irrigated grass	Primo Maxx			0			ml			450	phillip
26	2017	3	Copelin, Malcolm	Patterson, Daniel		22-Dec-17	Pest Management	City-Pest Mgte	4	General Weed	Roadways	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	northbourne ave
26	2017	4	Copelin, Malcolm	Patterson, Daniel		22-Dec-17	Pest Management	Gungahlin-Pest Mgte	4	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		50	stromwater
26	2017	5	Copelin, Malcolm	Patterson, Daniel		22-Dec-17	Pest Management	Environmental Weed Mgte	8	Environmental Weed	Open Space	Plant Foliage	Garlon 600	Agral 600		170	20		ml	ml		200	various sites, work order
26	2017	6	Warren, Daniel	Roberts, Jayne		22-Dec-17	Pest Management	S&R South	4	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Red Dye		1	100		L	ml		300	baseball park, narra
26	2017	7	Warren, Daniel	Roberts, Jayne		22-Dec-17	Pest Management	Environmental Weed Mgte	4	Environmental Weed	Open Space	Plant Foliage	Garlon 600	Agral 600		170	20		ml	ml		200	various
26	2017	8	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	23-Dec-17	Pest Management	Belconnen-Pest Mgte	24	General Weed	Open Space	Dryland grass	Glyphosate	Red Dye	Simanex 900	1	100	110	L	ml	g	350	various
26	2017	9	Roberts, Jayne	Schultz, Peter		23-Dec-17	Pest Management	Belconnen-Pest Mgte	12	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	various
25	2017	1	Patterson, Daniel	Evans, Gabriel		14-Dec-17	Pest Management	S&R North	2	Insect Pests	Oval Surrounds	Dryland grass	Tempo			0			ml			40	ants, evatt
25	2017	2	Patterson, Daniel	Evans, Gabriel		14-Dec-17	Pest Management	Inner South-Pest Mgte	14	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	ski club, narrabundah laneways
25	2017	3	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	14-Dec-17	Pest Management	Inner South-Pest Mgte	12	General Weed	Open Space	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	norgrove park, foreshore
25	2017	4	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	14-Dec-17	Pest Management	Environmental Weed Mgte	12	Environmental Weed	Open Space	Dryland grass	Glyphosate	Primo Maxx		1	0		L	ml		93	love grass trial, kambah
25	2017	5	Copelin, Malcolm	Agostini, Jess		15-Dec-17	Pest Management	Yarralumla Nursery	4	Plant Health	Open Space	Plant Foliage	Plant Health product				0					600	section 9
25	2017	6	Copelin, Malcolm	Agostini, Jess		15-Dec-17	Pest Management	Inner South-Pest Mgte	4	Sucker Control	Trees	Trees	Roundup			1			L			1	suckers, various

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
25	2017	7	Patterson, Daniel	Evans, Gabriel		16-Dec-17	Pest Management	City-Pest Mgte	6	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	city walk, akuna st
25	2017	8	Patterson, Daniel	Warren, Daniel	Evans, Gabriel	16-Dec-17	Pest Management	Gungahlin-Pest Mgte	14	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Pulse	Red Dye	1	200	100	L	ml	ml	300	stormwater
25	2017	9	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	16-Dec-17	Pest Management	Inner South-Pest Mgte	6	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	70	kingston shops
25	2017	10	Copelin, Malcolm	Agostini, Jess		16-Dec-17	Pest Management	Yarralumla Nursery	4	Pests & Disease	Floral displays	Plant Foliage	Saprol	Mallet		130			ml			200	various sections
25	2017	11	Copelin, Malcolm	Agostini, Jess		16-Dec-17	Pest Management	Environmental Weed Mgte	6	Environmental Weed	Open Space	Plant Foliage	Lynx	Double Time		10	0		g	ml		300	khaki, caltrop
25	2017	12	Schultz, Peter			16-Dec-17	Pest Management	Woden/Weston-Pest Mgte	6	Sucker Control	Aquatic Areas	Trees	Glyphosate			20			L			2	suckers
25	2017	13	Patterson, Daniel	Evans, Gabriel		18-Dec-17	Pest Management	Inner South-Pest Mgte	12	General Weed	Laneways	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	ski club, narrabundah laneways
25	2017	14	Copelin, Malcolm	Agostini, Jess		18-Dec-17	Pest Management	Inner South-Pest Mgte	12	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	450	weston park
25	2017	15	Copelin, Malcolm	Evans, Gabriel	Agostini, Jess	18-Dec-17	Pest Management	Woden/Weston-Pest Mgte	10	General Weed	Open Space	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	featherstone gardens
25	2017	16	Warren, Daniel	Roberts, Jayne		18-Dec-17	Pest Management	Inner South-Pest Mgte	6	General Weed	Open Space	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	telopea, bowen
25	2017	17	Patterson, Daniel	Evans, Gabriel	Warren, Daniel	19-Dec-17	Pest Management	Inner South-Pest Mgte	22	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	600	various
25	2017	18	Copelin, Malcolm	Agostini, Jess		19-Dec-17	Pest Management	S&R South	16	Insect Pests	Turf areas	Irrigated grass	Acelepryn			750			ml			4140	scarabs
25	2017	19	Warren, Daniel	Evans, Gabriel		19-Dec-17	Pest Management	S&R South	16	Insect Pests	Turf areas	Irrigated grass	Acelepryn			750			ml			4140	scarabs
25	2017	20	Roberts, Jayne			20-Dec-17	Pest Management	Inner South-Pest Mgte	4	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	140	around latrobe parkland
29	2017	1	Patterson, Daniel	Warren, Daniel		11-Jan-18	Pest Management	Belconnen-Pest Mgte	8	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Mojo	Red Dye	1	1	100	L	g	ml	200	various roads
29	2017	2	Patterson, Daniel	Warren, Daniel		11-Jan-18	Pest Management	Gungahlin-Pest Mgte	8	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Mojo	Red Dye	1	1	100	L	g	ml	200	various roads
29	2017	3	Agostini, Jess	Roberts, Jayne		11-Jan-18	Pest Management	Inner North-Pest Mgte	6	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		200	sullivans creek

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29	2017	4	Copelin, Malcolm	Agostini, Jess		12-Jan-18	Pest Management	Inner North-Pest Mgte	16	Sucker Control	Open Space	Trees	Garlon 600	Agral 600	Red Dye	170	20	100	ml	ml	ml	350	various sites
29	2017	5	Patterson, Daniel	Roberts, Jayne		12-Jan-18	Pest Management	Gungahlin-Pest Mgte	8	Pre-emergent	Roadways	Mulched or cultivated	Glyphosate	Mojo	Red Dye	1	1	100	L	g	ml	400	various
29	2017	6	Copelin, Malcolm	Agostini, Jess		13-Jan-18	Pest Management	Inner North-Pest Mgte	10	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		200	lynham, hackett, sullivans creek
29	2017	7	Copelin, Malcolm	Agostini, Jess		13-Jan-18	Pest Management	S&R North	8	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	160	various
29	2017	8	Patterson, Daniel	Roberts, Jayne		13-Jan-18	Pest Management	S&R North	12	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	various
29	2017	9	Schultz, Peter			13-Jan-18	Pest Management	Inner South-Pest Mgte	2	Insect Pests	Trees	Trees	Permethin Dust			0			g			300	used 300gms. bees
29	2017	10	Schultz, Peter			13-Jan-18	Pest Management	Woden/Weston-Pest Mgte	4	Insect Pests	Open Space	Dryland grass	Tempo			0			ml			120	4 x ants
29	2017	11	Copelin, Malcolm	Agostini, Jess		15-Jan-18	Pest Management	S&R South	9	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
29	2017	12	Copelin, Malcolm	Agostini, Jess		15-Jan-18	Pest Management	S&R South	6	Insect Pests	Building Surrounds	Buildings & Structures	Tempo			0			ml			60	various, pavillions, spiders
29	2017	13	Copelin, Malcolm	Agostini, Jess		15-Jan-18	Pest Management	Environmental Weed Mgte	1	Environmental Weed	Open Space	Plant Foliage	Lynx			10			g			5	barton
29	2017	14	Patterson, Daniel	Warren, Daniel	Evans, Gabriel	15-Jan-18	Pest Management	S&R North	6	Insect Pests	Building Surrounds	Buildings & Structures	Tempo			0			ml			45	paviallions, spiders
29	2017	15	Patterson, Daniel	Warren, Daniel	Evans, Gabriel	15-Jan-18	Pest Management	S&R North	18	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
29	2017	16	Copelin, Malcolm	Agostini, Jess		16-Jan-18	Pest Management	Environmental Weed Mgte	4	Environmental Weed	Open Space	Plant Foliage	Lynx			10			g			100	various
29	2017	17	Copelin, Malcolm	Agostini, Jess	Roberts, Jayne	16-Jan-18	Pest Management	Woden/Weston-Pest Mgte	6	Sucker Control	Open Space	Trees	Garlon 600	Agral 600		170	20		ml	ml		200	various
29	2017	18	Copelin, Malcolm	Agostini, Jess	Roberts, Jayne	16-Jan-18	Pest Management	Tuggeranong-Pest Mgte	6	Sucker Control	Open Space	Trees	Garlon 600	Agral 600		170	20		ml	ml		200	various
29	2017	19	Patterson, Daniel			16-Jan-18	Pest Management	S&R North	4	Insect Pests	Building Surrounds	Buildings & Structures	Tempo			0			ml			400	pavillions
29	2017	20	Patterson, Daniel	Copelin, Malcolm	Roberts, Jayne	16-Jan-18	Pest Management	S&R North	18	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	amaroo, aranda
29	2017	21	Schultz, Peter			16-Jan-18	Pest Management	Woden/Weston-Pest Mgte	1	Insect Pests	Open Space	Dryland grass	Permethin Dust			0			g			100	used 100gms, wasps
29	2017	22	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	16-Jan-18	Pest Management	S&R South	30	Pests & Disease	Turf areas	Irrigated grass	Acelepryn						ml			7040	various, scarabs

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
29	2017	23	Patterson, Daniel			16-Jan-18	Pest Management	Inner South-Pest Mgte	1	Pests & Disease	Turf areas	Irrigated grass	Acelepryn						ml			120	english gardens
29	2017	24	Patterson, Daniel			16-Jan-18	Pest Management	S&R South	1	Insect Pests	Building Surrounds	Buildings & Structures	Tempo			0			ml			10	kambah, pump station
29	2017	25	Evans, Gabriel			17-Jan-18	Pest Management	S&R South	8	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	mill creek
30	2017	1	Evans, Gabriel	Roberts, Jayne		18-Jan-18	Pest Management	S&R South	2	Insect Pests	Oval Surrounds	Buildings & Structures	Tempo			0			ml			15	spiders
30	2017	2	Evans, Gabriel	Roberts, Jayne		18-Jan-18	Pest Management	S&R South	3	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	narrabundah
30	2017	3	Evans, Gabriel			18-Jan-18	Pest Management	Inner South-Pest Mgte	1	Sucker Control	Shrub beds	Trees	Roundup			5			L			1	kingston shops
30	2017	4	Warren, Daniel	Agostini, Jess		18-Jan-18	Pest Management	S&R South	4	Insect Pests	Oval Surrounds	Buildings & Structures	Tempo			0			ml			20	spiders
30	2017	5	Warren, Daniel	Agostini, Jess		18-Jan-18	Pest Management	S&R South	12	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	griffith, yarralumla
30	2017	6	Copelin, Malcolm	Agostini, Jess		19-Jan-18	Pest Management	S&R South	10	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	various
30	2017	7	Copelin, Malcolm	Agostini, Jess		19-Jan-18	Pest Management	S&R South	6	Insect Pests	Oval Surrounds	Buildings & Structures	Tempo			0			ml			60	spiders
30	2017	8	Patterson, Daniel	Evans, Gabriel		19-Jan-18	Pest Management	S&R North	14	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	kaleen, aranda
30	2017	9	Copelin, Malcolm	Agostini, Jess	Roberts, Jayne	20-Jan-18	Pest Management	S&R South	18	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	450	various
30	2017	10	Patterson, Daniel	Evans, Gabriel	Warren, Daniel	20-Jan-18	Pest Management	Inner North-Pest Mgte	7	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		40	stormwater, o'connor
30	2017	11	Patterson, Daniel	Evans, Gabriel	Warren, Daniel	20-Jan-18	Pest Management	Inner South-Pest Mgte	7	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		40	stormwater, brisbane ave, telopea park
30	2017	12	Patterson, Daniel	Evans, Gabriel	Warren, Daniel	20-Jan-18	Pest Management	S&R North	8	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	various
30	2017	13	Copelin, Malcolm	Warren, Daniel	Agostini, Jess	22-Jan-18	Pest Management	S&R South	16	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
30	2017	14	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	22-Jan-18	Pest Management	S&R South	8	Insect Pests	Oval Surrounds	Buildings & Structures	Tempo			0			ml			55	spiders
30	2017	15	Evans, Gabriel			22-Jan-18	Pest Management	S&R South	6	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	220	narrrabundah
30	2017	16	Evans, Gabriel			22-Jan-18	Pest Management	S&R South	2	Insect Pests	Oval Surrounds	Buildings & Structures	Tempo			0			ml			20	spiders, narrabundah
30	2017	17	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	23-Jan-18	Pest Management	S&R South	8	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	125	curtin

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30	2017	18	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	23-Jan-18	Pest Management	S&R North	8	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	125	reid, hackett
30	2017	19	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	23-Jan-18	Pest Management	S&R North	2	Insect Pests	Oval Surrounds	Buildings & Structures	Tempo			0			ml			20	spiders
30	2017	20	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	23-Jan-18	Pest Management	S&R South	2	Insect Pests	Oval Surrounds	Buildings & Structures	Tempo			0			ml			20	spiders
30	2017	21	Evans, Gabriel			23-Jan-18	Pest Management	Woden/Weston-Pest Mgte	8	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		150	stormwater
30	2017	22	Copelin, Malcolm	Agostini, Jess		23-Jan-18	Pest Management	S&R North	13	Insect Pests	Turf areas	Irrigated grass	Acelepryn						ml			3080	scarabs
30	2017	23	Warren, Daniel	Roberts, Jayne		23-Jan-18	Pest Management	S&R South	13	Insect Pests	Turf areas	Irrigated grass	Acelepryn						ml			3080	scarabs
30	2017	24	Copelin, Malcolm	Warren, Daniel		23-Jan-18	Pest Management	City-Pest Mgte	6	Insect Pests	Turf areas	Irrigated grass	Acelepryn			750			ml			200	scarabs, vet and latin park, city walk
30	2017	25	Schultz, Peter			24-Jan-18	Pest Management	Gungahlin-Pest Mgte	3	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			250	used 250gms. 2 wasp nests. nicholls, franklin
30	2017	26	Schultz, Peter			24-Jan-18	Pest Management	Woden/Weston-Pest Mgte	1	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			150	used 150gms, wasp nest curtin
33	2017	1	Copelin, Malcolm	Warren, Daniel	Agostini, Jess	08-Feb-18	Pest Management	S&R South	2	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									450	used prima maxx
33	2017	2	Agostini, Jess	Warren, Daniel	Copelin, Malcolm	08-Feb-18	Pest Management	S&R North	4	Pests & Disease	Oval Surrounds	Buildings & Structures	Tempo			0			ml			50	various
33	2017	3	Agostini, Jess	Warren, Daniel	Copelin, Malcolm	08-Feb-18	Pest Management	S&R South	8	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	650	stirling, deakin
33	2017	4	Copelin, Malcolm	Warren, Daniel	Agostini, Jess	08-Feb-18	Pest Management	S&R North	10	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	disckon
33	2017	5	Patterson, Daniel	Hourigan, Celia		08-Feb-18	Pest Management	S&R North	16	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	holt,cook
33	2017	6	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	09-Feb-18	Pest Management	S&R South	21	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	700	greenway, kambah
33	2017	7	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	09-Feb-18	Pest Management	S&R South	3	Pests & Disease	Oval Surrounds	Buildings & Structures	Tempo			0			ml			30	kambah, greenway
33	2017	8	Hourigan, Celia	Patterson, Daniel		09-Feb-18	Pest Management	S&R North	16	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	550	higgins, holt
31	2017	1	Evans, Gabriel			25-Jan-18	Pest Management	City-Pest Mgte	4	Sucker Control	Carparks & pedestrian areas	Trees	Garlon 600	Agral 600		170	20		ml	ml		80	carparks, civic
31	2017	2	Evans, Gabriel			25-Jan-18	Pest Management	Belconnen-Pest Mgte	3	Sucker Control	Open Space	Trees	Garlon 600	Agral 600		170	20		ml	ml		75	various
31	2017	3	Evans, Gabriel			25-Jan-18	Pest Management	Inner South-Pest Mgte	1	Sucker Control	Open Space	Trees	Garlon 600	Agral 600		170	20		ml	ml		60	various

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
31	2017	4	Schultz, Peter			25-Jan-18	Pest Management	Woden/Weston-Pest Mgte	1	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			100	used 100gms, fisher wasp nest
31	2017	5	Schultz, Peter			25-Jan-18	Pest Management	Tuggeranong-Pest Mgte	2	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			200	used 200gms
31	2017	6	Schultz, Peter			25-Jan-18	Pest Management	Inner North-Pest Mgte	2	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			200	used 200gms
31	2017	7	Schultz, Peter			25-Jan-18	Pest Management	Gungahlin-Pest Mgte	2	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			200	used 200gms
31	2017	8	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	27-Jan-18	Pest Management	Woden/Weston-Pest Mgte	12	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		200	yarra creek
31	2017	9	Agostini, Jess	Copelin, Malcolm	Warren, Daniel	27-Jan-18	Pest Management	Inner South-Pest Mgte	15	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		150	various
31	2017	10	Evans, Gabriel	Roberts, Jayne		27-Jan-18	Pest Management	S&R South	1	Insect Pests	Oval Surrounds	Buildings & Structures	Tempo			0			ml			12	pearce
31	2017	11	Evans, Gabriel	Roberts, Jayne		27-Jan-18	Pest Management	S&R South	2	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Red Dye	Simanex 900	1	100	110	L	ml	g	100	pearce
31	2017	12	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	29-Jan-18	Pest Management	S&R South	8	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									1900	used lockout and micropest and biosea(5l/ha)
31	2017	13	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	29-Jan-18	Pest Management	S&R South	12	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
31	2017	14	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	29-Jan-18	Pest Management	S&R South	4	Pests & Disease	Oval Surrounds	Buildings & Structures	Tempo			0			ml			30	woden, phillip, hughes
31	2017	15	Evans, Gabriel			29-Jan-18	Pest Management	S&R North	8	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	hall
31	2017	16	Copelin, Malcolm	Warren, Daniel	Agostini, Jess	30-Jan-18	Pest Management	S&R South	13	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	stirling
31	2017	17	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	30-Jan-18	Pest Management	S&R South	2	Pests & Disease	Oval Surrounds	Buildings & Structures	Tempo			0			ml			20	stirlling
31	2017	18	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	30-Jan-18	Pest Management	City-Pest Mgte	2	Pests & Disease	Floral displays	Plant Foliage	Saprol	Omite 300		130	100		ml	g		100	roses
31	2017	19	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	30-Jan-18	Pest Management	Inner South-Pest Mgte	2	Pests & Disease	Floral displays	Plant Foliage	Saprol	Omite 300		130	100		ml	g		100	roses
31	2017	20	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	30-Jan-18	Pest Management	Woden/Weston-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Saprol	Omite 300		130	100		ml	g		10	roses
31	2017	21	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	30-Jan-18	Pest Management	Tuggeranong-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Saprol	Omite 300		130	100		ml	g		30	roses
31	2017	22	Patterson, Daniel	Evans, Gabriel		30-Jan-18	Pest Management	Belconnen-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Saprol	Omite 300		130	100		ml	g		10	roses

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
31	2017	23	Patterson, Daniel	Evans, Gabriel		30-Jan-18	Pest Management	S&R North	15	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
31	2017	24	Agostini, Jess			30-Jan-18	Pest Management	S&R South	1	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									250	used primo, MLR8
31	2017	25	Copelin, Malcolm	Warren, Daniel	Agostini, Jess	30-Jan-18	Pest Management	S&R North	27	Insect Pests	Turf areas	Irrigated grass	Acelepryn						ml			5900	750ml/ha. scarabs
31	2017	26	Patterson, Daniel			30-Jan-18	Pest Management	Inner South-Pest Mgte	5	Insect Pests	Turf areas	Irrigated grass	Acelepryn						ml			300	lennox, scarabs
32	2017	1	Copelin, Malcolm	Agostini, Jess		01-Feb-18	Pest Management	Yarralumla Nursery	6	General Weed	Cycle paths	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	450	section 8
32	2017	2	Copelin, Malcolm	Agostini, Jess		01-Feb-18	Pest Management	S&R North	6	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	watson, majura
32	2017	3	Copelin, Malcolm	Agostini, Jess		01-Feb-18	Pest Management	S&R North	2	Insect Pests	Oval Surrounds	Buildings & Structures	Tempo			0			ml			20	pests
32	2017	4	Copelin, Malcolm	Agostini, Jess		01-Feb-18	Pest Management	Tuggeranong-Pest Mgte	2	Insect Pests	Open Space	Dryland grass	Tempo			0			ml			100	ants
32	2017	5	Evans, Gabriel			01-Feb-18	Pest Management	S&R North	8	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	gungahlin
32	2017	6	Warren, Daniel			01-Feb-18	Pest Management	S&R North	8	Plant Health	Turf areas	Irrigated grass	Plant Health product									2000	used biosea
32	2017	7	Patterson, Daniel	Evans, Gabriel		02-Jan-18	Pest Management	S&R North	4	Plant Health	Turf areas	Irrigated grass	Plant Health product									1200	used biosea
32	2017	8	Patterson, Daniel	Evans, Gabriel		02-Feb-18	Pest Management	S&R North	4	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	gungahlin
32	2017	9	Patterson, Daniel	Evans, Gabriel		02-Feb-18	Pest Management	Belconnen-Pest Mgte	4	Insect Pests	Open Space	Dryland grass	Tempo			0			ml			150	ants
32	2017	10	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	02-Feb-18	Pest Management	Yarralumla Nursery	6	General Weed	Cycle paths	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	section 9,10
32	2017	11	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	02-Feb-18	Pest Management	S&R North	5	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	120	majura
32	2017	12	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	02-Feb-18	Pest Management	S&R South	5	General Weed	Oval Surrounds	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	120	curtin dpf
32	2017	13	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	02-Feb-18	Pest Management	S&R South	2	Insect Pests	Oval Surrounds	Buildings & Structures	Tempo			0			ml			30	insects
32	2017	14	Copelin, Malcolm	Agostini, Jess	Patterson, Daniel	03-Feb-18	Pest Management	Yarralumla Nursery	14	General Weed	Paths & pavings	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	650	sections 1,2,3. soil yard
32	2017	15	Agostini, Jess	Patterson, Daniel	Evans, Gabriel	03-Feb-18	Pest Management	Woden/Weston-Pest Mgte	16	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		300	yarra ck, fisher, weston
32	2017	16	Schultz, Peter			03-Feb-18	Pest Management	Inner North-Pest Mgte	3	Insect Pests	Open Space	Dryland grass	Tempo			100			ml			120	ants nest x4, dickson

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32	2017	17	Schultz, Peter			03-Feb-18	Pest Management	Woden/Weston-Pest Mgte	3	Insect Pests	Open Space	Dryland grass	Tempo			100			ml			100	chifley, torrens ants x3
32	2017	18	Copelin, Malcolm	Agostini, Jess		05-Feb-18	Pest Management	S&R South	15	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	450	various
34	2017	1	Copelin, Malcolm	Agostini, Jess		15-Feb-18	Pest Management	Inner South-Pest Mgte	16	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	450	adelaide ave
34	2017	2	Patterson, Daniel	Hourigan, Celia	Warren, Daniel	15-Feb-18	Pest Management	S&R North	24	Insect Pests	Oval Surrounds	Buildings & Structures	Tempo			0			ml			120	hall,palmerston, gungahlin pavillions
34	2017	3	Copelin, Malcolm	Agostini, Jess		16-Feb-18	Pest Management	Inner South-Pest Mgte	16	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	450	various shrub beds
34	2017	4	Warren, Daniel			16-Feb-18	Pest Management Overhead	S&R North	6	Insect Pests	Oval Surrounds	Buildings & Structures	Tempo			0			ml			150	various
34	2017	5	Schultz, Peter			16-Feb-18	Pest Management	Belconnen-Pest Mgte	2	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			150	used 150gms
34	2017	6	Schultz, Peter			16-Feb-18	Pest Management	Woden/Weston-Pest Mgte	1	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			100	used 100gms
34	2017	7	Copelin, Malcolm	Agostini, Jess	Hourigan, Celia	17-Feb-18	Pest Management	Tuggeranong-Pest Mgte	28	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		600	stormwater
34	2017	8	Schultz, Peter			17-Feb-18	Pest Management	Tuggeranong-Pest Mgte	6	Sucker Control	Open Space	Trees	Glyphosate			20			L			2	cut and dab
34	2017	9	Copelin, Malcolm	Agostini, Jess		19-Feb-18	Pest Management	Inner South-Pest Mgte	16	General Weed	Medians	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		380	various, medians, footpaths, kerbs, gutters
34	2017	10	Patterson, Daniel	Warren, Daniel		19-Feb-18	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	london cct carparks
34	2017	11	Patterson, Daniel	Warren, Daniel		19-Feb-18	Pest Management	Inner South-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	260	monaro hwy shrub beds
34	2017	12	Copelin, Malcolm	Agostini, Jess		20-Feb-18	Pest Management	Inner South-Pest Mgte	10	General Weed	Roadside Features	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		300	kerb and gutter, red hill/deakin
34	2017	13	Patterson, Daniel	Hourigan, Celia		20-Feb-18	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	london cct carparks
34	2017	14	Patterson, Daniel	Hourigan, Celia		20-Feb-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	monaro hwy
34	2017	15	Warren, Daniel			20-Feb-18	Pest Management	Inner South-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	griffith/kingston shrub beds

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34	2017	16	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	21-Feb-18	Pest Management	Inner South-Pest Mgte	22	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	850	red hill/griffith o/s
34	2017	17	Patterson, Daniel	Hourigan, Celia		21-Feb-18	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	civic pool carpark
34	2017	18	Patterson, Daniel	Hourigan, Celia		21-Feb-18	Pest Management	Inner South-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	monaro hwy shrub beds
34	2017	19	Schultz, Peter			21-Feb-18	Pest Management	Tuggeranong-Pest Mgte	2	European Wasps	Open Space	Dryland grass	Permethin Dust			200			g			200	gordon wasps. used 200gms
35	2017	1	Copelin, Malcolm	Agostini, Jess		22-Feb-18	Pest Management	Inner South-Pest Mgte	16	General Weed	Roadside Features	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	lanyon dr, monaro hwy
35	2017	2	Patterson, Daniel	Warren, Daniel		22-Feb-18	Pest Management	City-Pest Mgte	8	General Weed	Building Surrounds	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	canb house, melb building
35	2017	3	Patterson, Daniel	Warren, Daniel		22-Feb-18	Pest Management	Inner South-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	various shrub beds
35	2017	4	Patterson, Daniel	Warren, Daniel		23-Jan-18	Pest Management	City-Pest Mgte	8	General Weed	Building Surrounds	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	city west building surrounds
35	2017	5	Patterson, Daniel	Warren, Daniel		23-Feb-18	Pest Management	Inner South-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	various shrub beds
33	2017	9	Copelin, Malcolm	Agostini, Jess	Hourigan, Celia	10-Feb-18	Pest Management	Yarralumla Nursery	18	General Weed	Paths & pavings	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	700	various sections
33	2017	10	Patterson, Daniel	Hourigan, Celia	Copelin, Malcolm	10-Feb-18	Pest Management	Woden/Weston-Pest Mgte	16	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		300	holder
33	2017	11	Schultz, Peter			10-Feb-18	Pest Management	Gungahlin-Pest Mgte	3	Insect Pests	Open Space	Dryland grass	Tempo			0			ml			80	ants x2
33	2017	12	Schultz, Peter			10-Feb-18	Pest Management	Woden/Weston-Pest Mgte	3	Insect Pests	Open Space	Dryland grass	Tempo			0			ml			70	ants x 3
33	2017	13	Patterson, Daniel	Hourigan, Celia		12-Feb-18	Pest Management	S&R North	16	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
33	2017	14	Copelin, Malcolm	Agostini, Jess		12-Feb-18	Pest Management	S&R North	3	Insect Pests	Oval Surrounds	Buildings & Structures	Tempo			0			ml			25	various
33	2017	15	Copelin, Malcolm	Agostini, Jess		12-Feb-18	Pest Management	S&R North	8	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	lyneham
33	2017	16	Copelin, Malcolm	Agostini, Jess		12-Feb-18	Pest Management	S&R South	5	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	kambah
33	2017	17	Copelin, Malcolm			13-Feb-18	Pest Management	S&R South	6	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
33	2017	18	Copelin, Malcolm			13-Feb-18	Pest Management	S&R South	2	Insect Pests	Oval Surrounds	Buildings & Structures	Tempo			0			ml			20	kambah

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33	2017	19	Patterson, Daniel	Hourigan, Celia		13-Feb-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	canb ave
33	2017	20	Patterson, Daniel	Hourigan, Celia	Warren, Daniel	13-Feb-18	Pest Management	S&R North	12	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	600	charnwood
33	2017	21	Patterson, Daniel	Hourigan, Celia	Warren, Daniel	13-Feb-18	Pest Management	S&R North	2	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	60	narrabundah
33	2017	22	Schultz, Peter			13-Feb-18	Pest Management	Belconnen-Pest Mgte	1	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			100	wasp, florey. 100gms
33	2017	23	Schultz, Peter			13-Feb-18	Pest Management	Inner North-Pest Mgte	1	European Wasps	Open Space	Dryland grass	Permethin Dust			100			g			100	100gms, o'conor
33	2017	24	Patterson, Daniel	Hourigan, Celia	Warren, Daniel	14-Feb-18	Pest Management	S&R North	24	Insect Pests	Oval Surrounds	Buildings & Structures	Tempo			0			ml			150	various
35	2017	6	Copelin, Malcolm	Agostini, Jess		23-Feb-18	Pest Management	Inner South-Pest Mgte	16	General Weed	Roadways	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	long gully, hindmarsh dr, forrest
35	2017	7	Copelin, Malcolm	Warren, Daniel	Patterson, Daniel	24-Feb-18	Pest Management	Tuggeranong-Pest Mgte	28	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		400	various storm water
35	2017	8	Schultz, Peter			24-Feb-18	Pest Management	Woden/Weston-Pest Mgte	3	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			300	used 300gms
35	2017	9	Schultz, Peter			24-Feb-18	Pest Management	Woden/Weston-Pest Mgte	3	Insect Pests	Open Space	Dryland grass	Tempo			0			ml			40	ants nest x 3. phillip and torrens
35	2017	10	Schultz, Peter			26-Feb-18	Pest Management	Woden/Weston-Pest Mgte	1	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			100	wasp nest, curtin. used 100gms
35	2017	11	Schultz, Peter			26-Feb-18	Pest Management	Inner South-Pest Mgte	1	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			100	wasp nest, griffith. used 100gms
35	2017	12	Copelin, Malcolm	Agostini, Jess		27-Feb-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	canberra ave shrub beds
35	2017	13	Copelin, Malcolm	Agostini, Jess		27-Feb-18	Pest Management	Tuggeranong-Pest Mgte	10	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		100	various sites
35	2017	14	Patterson, Daniel	Hourigan, Celia		27-Feb-18	Pest Management	City-Pest Mgte	4	General Weed	Building Surrounds	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	80	sydney building.
35	2017	15	Patterson, Daniel	Hourigan, Celia		27-Feb-18	Pest Management	Inner South-Pest Mgte	9	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	320	various shrub beds
35	2017	16	Patterson, Daniel	Hourigan, Celia	Warren, Daniel	28-Feb-18	Pest Management	Inner South-Pest Mgte	21	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	fyshwick shrub beds
38	2017	1	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	15-Mar-18	Pest Management	Inner South-Pest Mgte	10	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	450	various

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38	2017	2	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	15-Mar-18	Pest Management	Environmental Weed Mgte	10	Selective Weeds	Roadways	Dryland grass	Garlon 600	Agral 600	Red Dye	170	20	100	ml	ml	ml	600	monaro hwy, adelaide ave, hindmarsh dr. kakhi
38	2017	3	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	15-Mar-18	Pest Management	Woden/Weston-Pest Mgte	4	Sucker Control	Open Space	Trees	Garlon 600	Agral 600		170	20		ml	ml		50	suckers
38	2017	4	Hourigan, Celia			15-Mar-18	Pest Management	Inner South-Pest Mgte	6	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	narrabundah
38	2017	5	Hourigan, Celia			15-Mar-18	Pest Management	Inner North-Pest Mgte	2	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			250	used 250gms.
38	2017	6	Warren, Daniel			16-Mar-18	Pest Management	Environmental Weed Mgte	8	Selective Weeds	Roadways	Dryland grass	Garlon 600	Agral 600		170	20		ml	ml		200	kahki weed
38	2017	7	Hourigan, Celia			16-Mar-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	20	maryborough park, fyshwick
38	2017	8	Hourigan, Celia			15-Mar-18	Pest Management	Tuggeranong-Pest Mgte	2	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			300	used 300gms
38	2017	9	Hourigan, Celia			16-Mar-18	Pest Management	Inner South-Pest Mgte	2	Sucker Control	Open Space	Trees	Glyphosate			1			L			1	suckers
38	2017	10	Copelin, Malcolm	Evans, Gabriel	Warren, Daniel	17-Mar-18	Pest Management	Belconnen-Pest Mgte	20	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		200	karinga
38	2017	11	Hourigan, Celia	Agostini, Jess		17-Mar-18	Pest Management	Gungahlin-Pest Mgte	6	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		100	mitchel stormwater
38	2017	12	Schultz, Peter			17-Mar-18	Pest Management	Inner South-Pest Mgte	6	Sucker Control	Open Space	Trees	Roundup			1			L			2	sucker
38	2017	13	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	19-Mar-18	Pest Management	Inner South-Pest Mgte	24	General Weed	Open Space	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	750	various parks
38	2017	14	Hourigan, Celia	Patterson, Daniel		19-Mar-18	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	pool carpark
38	2017	15	Patterson, Daniel	Hourigan, Celia		19-Mar-18	Pest Management	Inner South-Pest Mgte	6	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	narrabundah laneways
38	2017	16	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	20-Mar-18	Pest Management	Inner South-Pest Mgte	13	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	various sites
38	2017	17	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	20-Mar-18	Pest Management	S&R South	8	Selective Weeds	Open Space	Dryland grass	Glyphosate	Red Dye		1	100		L	ml		40	paspalum
38	2017	18	Patterson, Daniel	Hourigan, Celia		20-Mar-18	Pest Management	City-Pest Mgte	12	General Weed	Building Surrounds	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	city west, west roe

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
38	2017	19	Hourigan, Celia	Patterson, Daniel		20-Mar-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	narrabundah
38	2017	20	Copelin, Malcolm	Warren, Daniel		21-Mar-18	Pest Management	Inner South-Pest Mgte	11	Fungal disease	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	260	red hill look out
38	2017	21	Copelin, Malcolm	Warren, Daniel		21-Mar-18	Pest Management	S&R South	5	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Red Dye		1	100		L	ml		40	greenway
38	2017	22	Patterson, Daniel	Hourigan, Celia		21-Mar-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Laneways	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	narrabundah
38	2017	23	Schultz, Peter			21-Mar-18	Pest Management	Inner South-Pest Mgte	2	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			200	griffith, wasps
38	2017	24	Schultz, Peter			21-Mar-18	Pest Management	Gungahlin-Pest Mgte	1	Insect Pests	Parkland features	Buildings & Structures	Permethin Dust			0			g			50	used 50gms. paper wasp in play ground
39	2017	1	Copelin, Malcolm	Warren, Daniel	Agostini, Jess	22-Mar-18	Pest Management	Inner South-Pest Mgte	22	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	750	weston park
39	2017	2	Copelin, Malcolm	Warren, Daniel	Agostini, Jess	22-Mar-18	Pest Management	S&R South	2	Pre-emergent	Oval Surrounds	Dryland grass	Dimension EW									300	narrabundah baseball
39	2017	3	Patterson, Daniel			22-Mar-18	Pest Management	City-Pest Mgte	4	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	80	civic depot carpark
39	2017	4	Patterson, Daniel			22-Mar-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	320	fyshwick depot shrub beds, molonglo ski centre
39	2017	5	Copelin, Malcolm	Agostini, Jess		23-Mar-18	Pest Management	Inner South-Pest Mgte	12	General Weed	Open Space	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	lennox gardens
39	2017	6	Copelin, Malcolm	Agostini, Jess		23-Mar-18	Pest Management	Inner South-Pest Mgte	2	Selective Weeds	Open Space	Dryland grass	Fusilade 212	Agral 600		400	20		ml	ml		20	lennox, weston park
39	2017	7	Patterson, Daniel	Hourigan, Celia		23-Mar-18	Pest Management	City-Pest Mgte	12	General Weed	Building Surrounds	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	city west building surrounds, glebe park
39	2017	8	Patterson, Daniel	Hourigan, Celia		23-Mar-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	50	molonglo ski centre
39	2017	9	Copelin, Malcolm	Agostini, Jess		24-Mar-18	Pest Management	Inner South-Pest Mgte	6	General Weed	Paths & pavings	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	120	kingston, manuka shops
39	2017	10	Copelin, Malcolm	Agostini, Jess		24-Mar-18	Pest Management	Gungahlin-Pest Mgte	12	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		100	stormwater
39	2017	11	Patterson, Daniel	Hourigan, Celia		24-Mar-18	Pest Management	City-Pest Mgte	8	General Weed	Paths & pavings	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	bus interchange

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39	2017	12	Patterson, Daniel	Hourigan, Celia		24-Mar-18	Pest Management	Gungahlin-Pest Mgte	4	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		100	stormwater
39	2017	13	Schultz, Peter			24-Mar-18	Pest Management	Belconnen-Pest Mgte	1	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			100	used 100gms, kaleen wasp
39	2017	14	Schultz, Peter			24-Mar-18	Pest Management	Inner North-Pest Mgte	1	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			100	used 100gms, downer wasps
39	2017	15	Schultz, Peter			24-Mar-18	Pest Management	City-Pest Mgte	1	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			100	used 100gms, black mountain wasps
39	2017	16	Schultz, Peter			24-Mar-18	Pest Management	Woden/Weston-Pest Mgte	3	Sucker Control	Open Space	Trees	Roundup			20			L			1	cut and dab suckers
39	2017	17	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	26-Mar-18	Pest Management	Inner North-Pest Mgte	36	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		350	stormwater
39	2017	18	Hourigan, Celia	Patterson, Daniel		26-Mar-18	Pest Management	Inner South-Pest Mgte	4	Sucker Control	Open Space	Trees	Roundup			20			L			2	bowen park
39	2017	19	Patterson, Daniel	Hourigan, Celia		27-Mar-18	Pest Management	City-Pest Mgte	6	Pests & Disease	Open Space	Plant Foliage	Mallet	Procide		50	50			ml		120	glebe, vet park
39	2017	20	Patterson, Daniel	Hourigan, Celia		27-Mar-18	Pest Management	Belconnen-Pest Mgte	2	Pests & Disease	Open Space	Plant Foliage	Mallet	Procide		50	50			ml		10	margeret timpson park
39	2017	21	Patterson, Daniel	Hourigan, Celia		27-Mar-18	Floriade 17	General-non specific	4	Pests & Disease	Open Space	Plant Foliage	Mallet	Procide		50	50			ml		40	archbishops residents
39	2017	22	Patterson, Daniel	Hourigan, Celia		27-Mar-18	Pest Management	Gungahlin-Pest Mgte	4	Pests & Disease	Open Space	Plant Foliage	Mallet	Procide		50	50			ml		30	nicholls entry statement
39	2017	23	Copelin, Malcolm			27-Mar-18	Pest Management	Inner South-Pest Mgte	2	Pests & Disease	Ornamental plants	Plant Foliage	Procide	Mallet		50	50		ml			125	hyatt, lennox, english gardens
39	2017	24	Copelin, Malcolm			27-Mar-18	Pest Management	Woden/Weston-Pest Mgte	1	Pests & Disease	Ornamental plants	Plant Foliage	Mallet	Procide		50	50			ml		10	eddison park
39	2017	25	Copelin, Malcolm			27-Mar-18	Pest Management	Tuggeranong-Pest Mgte	1	Pests & Disease	Ornamental plants	Plant Foliage	Mallet	Procide		50	50			ml		60	tugg town park
39	2017	26	Copelin, Malcolm			27-Mar-18	Pest Management	S&R South	4	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									2050	used biosea, nitro tee
39	2017	27	Patterson, Daniel			28-Mar-18	Pest Management	S&R North	8	Plant Health	Turf areas	Irrigated grass	Plant Health product									2000	used biosea
39	2017	28	Copelin, Malcolm	Warren, Daniel	Agostini, Jess	28-Mar-18	Pest Management	Inner South-Pest Mgte	22	General Weed	Paths & pavings	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	kingston forshore
40	2017	1	Copelin, Malcolm	Agostini, Jess		29-Mar-18	Pest Management	S&R South	6	Pre-emergent	Oval Surrounds	Irrigated grass	Dimension EW			2						950	various
40	2017	2	Copelin, Malcolm	Agostini, Jess		29-Mar-18	Pest Management	Tuggeranong-Pest Mgte	2	Insect Pests	Open Space	Dryland grass	Tempo			0			ml			80	wanniasa

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40	2017	3	Copelin, Malcolm	Agostini, Jess		29-Mar-18	Pest Management	Inner North-Pest Mgte	2	Insect Pests	Open Space	Dryland grass	Tempo			0			ml			90	various
40	2017	4	Patterson, Daniel	Hourigan, Celia		29-Mar-18	Pest Management	City-Pest Mgte	8	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	glebe park
40	2017	5	Patterson, Daniel	Hourigan, Celia		29-Mar-18	Pest Management	Inner South-Pest Mgte	4	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			200	used 200gms
40	2017	6	Warren, Daniel			29-Mar-18	Pest Management	Inner South-Pest Mgte	6	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	kingston foreshore
40	2017	7	Patterson, Daniel	Hourigan, Celia		03-Apr-18	Pest Management	City-Pest Mgte	12	General Weed	Open Space	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	glebe park
40	2017	8	Patterson, Daniel	Hourigan, Celia		03-Apr-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Open Space	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	ski club
40	2017	9	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	03-Apr-18	Pest Management	Inner South-Pest Mgte	2	Selective Weeds	Oval Surrounds	Dryland grass	Primo Maxx			0			ml			300	narrabundah
40	2017	10	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	03-Apr-18	Pest Management	S&R South	4	Plant Health	Turf areas	Irrigated grass	Plant Health product									850	various
40	2017	11	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	03-Apr-18	Pest Management	Environmental Weed Mgte	8	Selective Weeds	Open Space	Hardstanding areas	Lynx			10			g			200	various
40	2017	12	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	03-Apr-18	Pest Management	Inner South-Pest Mgte	8	Sucker Control	Open Space	Trees	Garlon 600	Agral 600		170	20		ml	ml		200	various
40	2017	13	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	04-Apr-18	Pest Management	Yarralumla Nursery	6	General Weed	Open Space	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	550	section 8
40	2017	14	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	04-Apr-18	Pest Management	Inner South-Pest Mgte	13	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	weston park
40	2017	15	Patterson, Daniel	Hourigan, Celia		04-Apr-18	Pest Management	S&R North	14	Plant Health	Turf areas	Irrigated grass	Plant Health product									2800	various ovals
40	2017	16	Patterson, Daniel	Hourigan, Celia		04-Apr-18	Pest Management	S&R North	1	Insect Pests	Oval Surrounds	Buildings & Structures	Tempo			0			ml			10	spiders
40	2017	17	Patterson, Daniel	Hourigan, Celia		04-Apr-18	Pest Management	Environmental Weed Mgte	1	Selective Weeds	Aquatic Areas	Plant Foliage	Glyphosate			1			L			10	alligator weed, lake g
41	2017	1	Patterson, Daniel	Hourigan, Celia		05-Apr-18	Pest Management	Belconnen-Pest Mgte	4	Insect Pests	Open Space	Dryland grass	Tempo			0			ml			50	dunlop park
41	2017	2	Patterson, Daniel	Hourigan, Celia		05-Apr-18	Pest Management	City-Pest Mgte	4	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	glebe park
41	2017	3	Copelin, Malcolm	Warren, Daniel		05-Apr-18	Pest Management	Yarralumla Nursery	15	General Weed	Paths & pavings	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	850	various sections

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41	2017	4	Copelin, Malcolm	Warren, Daniel		05-Apr-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	75	weston park
41	2017	5	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	06-Apr-18	Pest Management	Inner South-Pest Mgte	20	General Weed	Open Space	Irrigated grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	450	weston park, engllish gardens
41	2017	6	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	06-Apr-18	Pest Management	City-Pest Mgte	4	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	glebe
41	2017	7	Patterson, Daniel	Hourigan, Celia		06-Apr-18	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	city walk
41	2017	8	Hourigan, Celia	Patterson, Daniel		06-Apr-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	ski club
41	2017	9	Copelin, Malcolm	Warren, Daniel	Agostini, Jess	07-Apr-18	Pest Management	Yarralumla Nursery	13	General Weed	Paths & pavings	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	50	100	L	g	ml	600	various ections
41	2017	10	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	07-Apr-18	Pest Management	Inner South-Pest Mgte	9	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		100	various
41	2017	11	Patterson, Daniel	Hourigan, Celia		07-Apr-18	Pest Management	City-Pest Mgte	8	General Weed	Roadside Features	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	hobart ave, darwin pl
41	2017	12	Patterson, Daniel	Hourigan, Celia		07-Apr-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		150	deakin
41	2017	13	Schultz, Peter			07-Apr-18	Pest Management	Inner South-Pest Mgte	4	Sucker Control	Open Space	Trees	Roundup			20			L			1	yarralumla
41	2017	14	Schultz, Peter			07-Apr-18	Pest Management	Inner South-Pest Mgte	2	Insect Pests	Open Space	Dryland grass	Tempo			0			ml			30	ants, weston park
41	2017	15	Hourigan, Celia			09-Apr-18	Pest Management	City-Pest Mgte	6	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	jolimont, police centre
41	2017	16	Hourigan, Celia			09-Apr-18	Pest Management	S&R North	2	Insect Pests	Oval Surrounds	Buildings & Structures	Tempo			0			ml			10	spiders
41	2017	17	Copelin, Malcolm	Agostini, Jess		09-Apr-18	Pest Management	Inner South-Pest Mgte	16	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
41	2017	18	Copelin, Malcolm	Warren, Daniel	Patterson, Daniel	10-Apr-18	Pest Management	Yarralumla Nursery	10	General Weed	Paths & pavings	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
41	2017	19	Copelin, Malcolm	Warren, Daniel	Agostini, Jess	10-Apr-18	Pest Management	Inner South-Pest Mgte	8	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	weston park
41	2017	20	Patterson, Daniel	Hourigan, Celia		10-Apr-18	Pest Management	Inner South-Pest Mgte	8	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	ski club

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41	2017	21	Patterson, Daniel	Hourigan, Celia	Warren, Daniel	11-Apr-18	Pest Management	City-Pest Mgte	12	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	city walk, garemma place
41	2017	22	Patterson, Daniel	Hourigan, Celia	Warren, Daniel	11-Apr-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Parkland features	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	dfo lograils
41	2017	23	Patterson, Daniel	Hourigan, Celia		11-Apr-18	Pest Management	Inner South-Pest Mgte	2	General Weed	Paths & pavings	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	40	causeway footpath
41	2017	24	Copelin, Malcolm	Agostini, Jess		11-Apr-18	Pest Management	Woden/Weston-Pest Mgte	14	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		1000	various
42	2017	1	Patterson, Daniel	Hourigan, Celia		12-Apr-18	Pest Management	City-Pest Mgte	6	General Weed	Building Surrounds	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	various
42	2017	2	Copelin, Malcolm			12-Apr-18	Pest Management	Woden/Weston-Pest Mgte	8	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		350	various stormwater
42	2017	3	Copelin, Malcolm	Agostini, Jess		13-Apr-18	Pest Management	Woden/Weston-Pest Mgte	14	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		250	long gully, stormwater
42	2017	4	Patterson, Daniel	Hourigan, Celia		13-Apr-18	Pest Management	City-Pest Mgte	8	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	ainslie ave, civic square
42	2017	5	Patterson, Daniel	Hourigan, Celia		13-Apr-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Roadside Features	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	fyshwick lograils
42	2017	6	Patterson, Daniel	Hourigan, Celia		13-Apr-18	Pest Management	S&R North	4	Sucker Control	Oval Surrounds	Trees	Garlon 600	Red Dye		170	100		ml	ml		20	kaleen
42	2017	7	Copelin, Malcolm	Agostini, Jess	Hourigan, Celia	14-Apr-18	Pest Management	City-Pest Mgte	2	Plant Health	Floral displays	Plant Foliage	Plant Health product									400	city hill, used hydration, nitrophoskia blue 4kg
42	2017	8	Patterson, Daniel	Hourigan, Celia	Agostini, Jess	14-Apr-18	Pest Management	Belconnen-Pest Mgte	4	Insect Pests	Open Space	Dryland grass	Tempo			0			ml			200	ants
42	2017	9	Patterson, Daniel	Hourigan, Celia		16-Apr-18	Pest Management	S&R North	16	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
42	2017	10	Copelin, Malcolm	Agostini, Jess		16-Apr-18	Pest Management	S&R South	16	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
42	2017	11	Copelin, Malcolm	Agostini, Jess		17-Apr-18	Floriade 17	General-non specific	1	Pests & Disease	Floral displays	Plant Foliage	Banrot 400			40			g			150	annuals
42	2017	12	Copelin, Malcolm	Agostini, Jess		17-Apr-18	Floriade 17	General-non specific	2	Plant Health	Floral displays	Plant Foliage	Ferilizer			0			g			20	used nitrophoskia 20kg
42	2017	13	Copelin, Malcolm	Agostini, Jess		17-Apr-18	Floriade 17	General-non specific	11	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Red Dye		1	100		L	ml		750	garden beds
42	2017	14	Copelin, Malcolm	Agostini, Jess		17-Apr-18	Floriade 17	General-non specific	2	Plant Health	Floral displays	Plant Foliage	Plant Health product									400	used gypsum
42	2017	15	Copelin, Malcolm	Agostini, Jess		18-Apr-18	Floriade 17	General-non specific	3	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Red Dye		1	100		L	ml		150	annuals beds

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
42	2017	16	Agostini, Jess	Copelin, Malcolm		18-Feb-18	Pest Management	S&R South	11	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	450	various
44	2017	1	Patterson, Daniel			26-Apr-18	Pest Management	S&R North	8	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
44	2017	2	Copelin, Malcolm	Agostini, Jess		26-Apr-18	Pest Management	S&R South	16	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	450	various
44	2017	3	Schultz, Peter			26-Apr-18	Pest Management	Tuggeranong-Pest Mgte	2	Insect Pests	Open Space	Dryland grass	Tempo			0			ml			60	tugg ants
44	2017	4	Schultz, Peter			26-Apr-18	Pest Management	Inner South-Pest Mgte	1	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			100	used 100gms grams. weston park wasps
44	2017	5	Schultz, Peter			26-Apr-18	Pest Management	Inner North-Pest Mgte	1	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			100	used 100gms, turner wasp
44	2017	6	Copelin, Malcolm	Agostini, Jess		27-Apr-18	Pest Management	S&R North	12	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	dickson, majura
44	2017	7	Copelin, Malcolm	Agostini, Jess		27-Apr-18	Pest Management	S&R South	2	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	40	forrestry oval
44	2017	8	Copelin, Malcolm	Agostini, Jess		27-Apr-18	Floriade 17	General-non specific	2	Plant Health	Floral displays	Plant Foliage	Plant Health product									400	annuals
44	2017	9	Patterson, Daniel			27-Apr-18	Pest Management	S&R North	8	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	kaleen, hawker
44	2017	10	Patterson, Daniel	Roberts, Jayne		28-Apr-18	Pest Management	S&R North	12	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	various
44	2017	11	Copelin, Malcolm	Adrian, Tristan		28-Apr-18	Pest Management	Environmental Weed Mgte	12	Selective Weeds	Open Space	Plant Foliage	Garlon 600	Agral 600		170	20		ml	ml		450	kambah pool rd, tugg express way. blackberries
44	2017	12	Patterson, Daniel	Hourigan, Celia		30-Apr-18	Pest Management	S&R North	16	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	500	kaleen, holt, charnwood
44	2017	13	Copelin, Malcolm	Agostini, Jess		30-Apr-18	Pest Management	S&R South	8	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	450	woden pk, chisolm
44	2017	14	Copelin, Malcolm	Agostini, Jess		30-Apr-18	Pest Management	S&R South	6	Plant Health	Oval Surrounds	Dryland grass	Plant Health product									1500	various ovals. used biosea
44	2017	15	Copelin, Malcolm	Agostini, Jess		30-Apr-18	Pest Management	S&R South	2	Plant Health	Oval Surrounds	Dryland grass	Plant Health product									400	used lockout. chisolm oval
44	2017	16	Copelin, Malcolm	Agostini, Jess		01-May-18	Pest Management	S&R South	4	Pre-emergent	Oval Surrounds	Dryland grass	Dimension EW									1000	phillip, greenway
44	2017	17	Copelin, Malcolm	Agostini, Jess		01-May-18	Pest Management	S&R South	2	Insect Pests	Oval Surrounds	Dryland grass	Tempo			0			ml			200	ants, isabella oval
44	2017	18	Copelin, Malcolm	Agostini, Jess		01-May-18	Pest Management	City-Pest Mgte	2	Pests & Disease	Floral displays	Plant Foliage	Ecocarb	Eco Oil		400			ml			50	roses, glebe and vet park
44	2017	19	Copelin, Malcolm	Agostini, Jess		01-May-18	Pest Management	Inner South-Pest Mgte	2	Pests & Disease	Floral displays	Plant Foliage	Ecocarb	Eco Oil		400			ml			45	roses, i/s

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
44	2017	20	Copelin, Malcolm	Agostini, Jess		01-May-18	Pest Management	Woden/Weston-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Ecocarb	Eco Oil		400			ml			5	roses, eddison park
44	2017	21	Copelin, Malcolm	Agostini, Jess		01-May-18	Pest Management	Tuggeranong-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Ecocarb	Eco Oil		400			ml			25	roses, tugg town park
44	2017	22	Patterson, Daniel	Hourigan, Celia		01-May-18	Pest Management	Belconnen-Pest Mgte	1	Pests & Disease	Floral displays	Plant Foliage	Ecocarb	Eco Oil		400			ml			10	roses, marg timpson park
44	2017	23	Patterson, Daniel	Hourigan, Celia		01-May-18	Pest Management	S&R North	15	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	500	holt, giralang, hawker
44	2017	24	Copelin, Malcolm	Agostini, Jess		02-May-18	Pest Management	S&R South	13	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	mawson, deakin, griffith
44	2017	25	Patterson, Daniel			02-May-18	Pest Management	S&R South	6	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	narrabundah
45	2017	1	Patterson, Daniel	Hourigan, Celia		03-May-18	Pest Management	S&R South	8	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	narrabundah
45	2017	2	Patterson, Daniel	Hourigan, Celia		03-May-18	Pest Management	S&R North	5	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	holt
45	2017	3	Copelin, Malcolm	Agostini, Jess		03-May-18	Pest Management	S&R North	15	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	750	various
45	2017	4	Copelin, Malcolm	Agostini, Jess		03-May-18	Floriade 17	General-non specific	1	Pests & Disease	Building Surrounds	Buildings & Structures	Tomcat									100	rat, mice bait
45	2017	5	Copelin, Malcolm	Agostini, Jess		04-May-18	Pest Management	City-Pest Mgte	2	Plant Health	Turf areas	Irrigated grass	Plant Health product									450	city hill, glebe park
45	2017	6	Copelin, Malcolm	Agostini, Jess		04-May-18	Floriade 17	General-non specific	2	Plant Health	Turf areas	Irrigated grass	Banrot 400			60			g			300	soil drench
45	2017	7	Patterson, Daniel	Hourigan, Celia		05-May-18	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	city walk, akuna st
45	2017	8	Copelin, Malcolm	Agostini, Jess		05-May-18	Pest Management	Environmental Weed Mgte	12	Selective Weeds	Open Space	Plant Foliage	Garlon 600	Agral 600	Red Dye	170	20	100	ml	ml	ml	450	various south region
45	2017	9	Patterson, Daniel	Hourigan, Celia		05-May-18	Pest Management	Environmental Weed Mgte	4	Selective Weeds	Open Space	Plant Foliage	Garlon 600	Agral 600	Red Dye	170	20	100	ml	ml	ml	80	ginnenderra dr, mcgegor
45	2017	10	Patterson, Daniel	Hourigan, Celia		07-May-18	Pest Management	S&R North	16	Plant Health	Turf areas	Dryland grass	Plant Health product									3200	used boisea
45	2017	11	Copelin, Malcolm			08-May-18	Pest Management	S&R South	7	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	greenway, phillip
45	2017	12	Patterson, Daniel	Hourigan, Celia		08-May-18	Pest Management	S&R North	16	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	600	holt, jamison
45	2017	13	Copelin, Malcolm	Patterson, Daniel	Agostini, Jess	09-May-18	Pest Management	S&R North	15	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	500	gungahlin
45	2017	14	Copelin, Malcolm	Patterson, Daniel	Agostini, Jess	09-May-18	Pest Management	S&R North	4	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	greenway

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45	2017	15	Copelin, Malcolm	Patterson, Daniel	Agostini, Jess	09-May-18	Pest Management	S&R North	3	General Weed	Oval Surrounds	Dryland grass	Plant Health product									840	used pro motz, gungahlin
46	2017	1	Copelin, Malcolm	Agostini, Jess		10-May-18	Pest Management	Inner South-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	hume open space and shrub beds
46	2017	2	Hourigan, Celia	Patterson, Daniel		10-May-18	Pest Management	S&R North	16	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	hall showground, jamison
46	2017	3	Copelin, Malcolm	Agostini, Jess		10-May-18	Pest Management	S&R South	7	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Red Dye	Simanex 900	1	100	110	L	ml	g	250	kambah
46	2017	4	Patterson, Daniel	Hourigan, Celia		11-May-18	Pest Management	S&R North	12	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	hawker, holt
46	2017	5	Patterson, Daniel	Hourigan, Celia		11-May-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Oval Surrounds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	veladrome
46	2017	6	Copelin, Malcolm	Agostini, Jess		11-May-18	Pest Management	Inner South-Pest Mgte	15	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	280	deakin, red hill,
46	2017	7	Copelin, Malcolm	Agostini, Jess		12-May-18	Floriade 17	General-non specific	12	Plant Health	Floral displays	Mulched or cultivated	Plant Health product				0					1000	used liquid gyspum 500mls/100l. urea 18kgs, prolivic blue 42kgs
46	2017	8	Patterson, Daniel	Hourigan, Celia		12-May-18	Pest Management	City-Pest Mgte	6	General Weed	Building Surrounds	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	casino, convention centre surrounds
46	2017	9	Schultz, Peter			12-May-18	Pest Management	Inner South-Pest Mgte	4	Sucker Control	Open Space	Trees	Roundup			20			L			1	yarra suckers
46	2017	10	Patterson, Daniel	Hourigan, Celia		14-May-18	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	law courts carpark
46	2017	11	Hourigan, Celia	Patterson, Daniel		14-May-18	Pest Management	Inner South-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	monaro highway shrub beds
46	2017	12	Copelin, Malcolm	Agostini, Jess		14-May-18	Pest Management	Inner South-Pest Mgte	7	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	adelaide ave shrub beds
46	2017	13	Patterson, Daniel	Hourigan, Celia		15-May-18	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	moose heads carpark, canberra theatre surrounds
46	2017	14	Patterson, Daniel	Hourigan, Celia		15-May-18	Pest Management	Inner South-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	monaro shrub beds
46	2017	15	Copelin, Malcolm	Agostini, Jess		15-May-18	Pest Management	Inner South-Pest Mgte	13	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	400	adelaide ave, state circle shrub beds

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46	2017	16	Copelin, Malcolm	Agostini, Jess		15-May-18	Floriade 17	General-non specific	10	Plant Health	Floral displays	Plant Foliage	Plant Health product									900	annuals and bulbs
46	2017	17	Copelin, Malcolm	Agostini, Jess		16-May-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	yarra shrub beds
46	2017	18	Patterson, Daniel	Hourigan, Celia		16-May-18	Pest Management	City-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	clover leaf shrub beds
46	2017	19	Patterson, Daniel	Hourigan, Celia		16-May-18	Pest Management	Inner South-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	canb ave shrub beds
46	2017	20	Schultz, Peter			16-May-18	Pest Management	Tuggeranong-Pest Mgte	2	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			150	used 150gms. wasps
47	2017	1	Copelin, Malcolm	Agostini, Jess		17-May-18	Pest Management	Inner South-Pest Mgte	16	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	450	yarra o/s
47	2017	2	Patterson, Daniel	Hourigan, Celia		17-May-18	Pest Management	City-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	various shrub beds
47	2017	3	Hourigan, Celia	Patterson, Daniel		17-May-18	Pest Management	Inner South-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	monaro highway shrub beds
47	2017	4	Copelin, Malcolm	Agostini, Jess		18-May-18	Floriade 17	General-non specific	4	Pre-emergent	Floral displays	Mulched or cultivated	Surflan			0			ml			65	annuals and bulbs
47	2017	5	Copelin, Malcolm	Agostini, Jess		18-May-18	Floriade 17	General-non specific	6	Plant Health	Floral displays	Plant Foliage	Plant Health product									1040	liquid fert, annuals and bulbs
47	2017	6	Copelin, Malcolm	Agostini, Jess		18-May-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	yarra o/s
47	2017	7	Patterson, Daniel	Hourigan, Celia		18-May-18	Pest Management	City-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	london cct shrub beds
47	2017	8	Patterson, Daniel	Hourigan, Celia		18-May-18	Pest Management	Inner South-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	DFO shrub beds
47	2017	9	Copelin, Malcolm	Agostini, Jess	Hourigan, Celia	19-May-18	Pest Management	Tuggeranong-Pest Mgte	30	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		480	stormwater
47	2017	10	Schultz, Peter			19-May-18	Pest Management	Woden/Weston-Pest Mgte	4	Sucker Control	Open Space	Trees	Roundup			20			L			1	mawson/philip suckers
47	2017	11	Copelin, Malcolm	Agostini, Jess		21-May-18	Pest Management	Inner South-Pest Mgte	13	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	open space
47	2017	12	Copelin, Malcolm	Agostini, Jess		21-May-18	Floriade 17	General-non specific	3	Plant Health	Floral displays	Plant Foliage	Plant Health product									420	annuals and bulbs
47	2017	13	Hourigan, Celia			21-May-18	Pest Management	City-Pest Mgte	4	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	250	section 19 capark

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47	2017	14	Hourigan, Celia			21-May-18	Pest Management	Inner South-Pest Mgte	2	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	narrabundah shrub beds
47	2017	15	Copelin, Malcolm	Agostini, Jess		22-May-18	Pest Management	Inner South-Pest Mgte	14	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	325	canb ave, griffith
47	2017	16	Hourigan, Celia	Patterson, Daniel		22-May-18	Pest Management	City-Pest Mgte	12	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	capital hill, section 19
47	2017	17	Hourigan, Celia	Patterson, Daniel		22-May-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Roadside Features	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	80	dairy flat road, log barriers
47	2017	18	Patterson, Daniel	Hourigan, Celia		23-May-18	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	civic pool carpark
47	2017	19	Patterson, Daniel	Hourigan, Celia		23-May-18	Pest Management	Inner South-Pest Mgte	8	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Red Dye	Simanex 900	1	100	110	L	ml	g	350	narrabundah/ hindmarsh dr shrub beds
47	2017	20	Copelin, Malcolm	Agostini, Jess		23-May-18	Floriade 17	General-non specific	9	Plant Health	Floral displays	Mulched or cultivated	Plant Health product									800	used urea 13kgs, NPK 30kgs
47	2017	21	Copelin, Malcolm	Agostini, Jess		23-May-18	Pest Management	Inner South-Pest Mgte	5	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	griffith parkland
48	2017	1	Copelin, Malcolm	Agostini, Jess		24-May-18	Pest Management	Inner South-Pest Mgte	16	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	350	red hiill, hindmarsh, shrub beds
48	2017	2	Patterson, Daniel	Hourigan, Celia		24-May-18	Pest Management	City-Pest Mgte	8	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	civic pool car park and surrounds
48	2017	3	Patterson, Daniel	Hourigan, Celia		24-May-18	Pest Management	Inner South-Pest Mgte	8	General Weed	Shrub beds	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	120	various
48	2017	4	Copelin, Malcolm	Agostini, Jess		25-May-18	Pest Management	Inner South-Pest Mgte	10	General Weed	Shrub beds	Mulched or cultivated	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	yarra shrub beds
48	2017	5	Copelin, Malcolm	Agostini, Jess		25-May-18	Floriade 17	General-non specific	6	Plant Health	Floral displays	Mulched or cultivated	Plant Health product									950	annuals
48	2017	6	Patterson, Daniel			25-May-18	Pest Management	City-Pest Mgte	4	General Weed	Carparks & pedestrian areas	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	150	allara st carpark
48	2017	7	Patterson, Daniel			25-May-18	Pest Management	Inner South-Pest Mgte	3	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	narrabundah open space
48	2017	8	Copelin, Malcolm	Agostini, Jess	Patterson, Daniel	26-May-18	Pest Management	Tuggeranong-Pest Mgte	21	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		350	stormwater
48	2017	9	Copelin, Malcolm	Agostini, Jess	Patterson, Daniel	26-May-18	Pest Management	City-Pest Mgte	3	General Weed	Roadways	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	northbourne ave

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
48	2017	10	Schultz, Peter			26-May-18	Pest Management	Inner South-Pest Mgte	4	Sucker Control	Open Space	Trees	Glyphosate			20	100		L			1	suckers
48	2017	11	Patterson, Daniel	Hourigan, Celia		29-May-18	Pest Management	City-Pest Mgte	8	General Weed	Paths & pavings	Hardstanding areas	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	100	cityy west bus interchange
48	2017	12	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	29-May-18	Pest Management	Inner South-Pest Mgte	14	General Weed	Open Space	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	barton, kingston
48	2017	13	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	29-May-18	Floriade 17	General-non specific	2	Plant Health	Floral displays	Mulched or cultivated	Plant Health product									400	bulbs
48	2017	14	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	30-May-18	Pest Management	Inner South-Pest Mgte	18	General Weed	Roadways	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	kingston, monaro hwy, canb ave
48	2017	15	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	30-May-18	Floriade 17	General-non specific	2	Plant Health	Floral displays	Mulched or cultivated	Plant Health product									14	annuals
48	2017	16	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	30-May-18	Floriade 17	General-non specific	2	Pests & Disease	Floral displays	Mulched or cultivated	Banrot 400			60			g			40	annuals
48	2017	17	Patterson, Daniel	Hourigan, Celia		30-May-18	Pest Management	S&R North	16	Plant Health	Turf areas	Irrigated grass	Plant Health product									2220	used biosea
48	2017	18	Schultz, Peter			30-May-18	Pest Management	Inner South-Pest Mgte	1	European Wasps	Open Space	Dryland grass	Permethin Dust			0			g			100	lennox, wasp nest. 100gms
49	2017	1	Copelin, Malcolm	Warren, Daniel		31-May-18	Pest Management	Inner South-Pest Mgte	21	General Weed	Roadways	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	300	canb ave, adelaide ave, monaro highway
50	2017	1	Patterson, Daniel	Hourigan, Celia		07-Jun-18	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	350	west belconnen
50	2017	2	Copelin, Malcolm	Agostini, Jess		07-Jun-18	Pest Management	Tuggeranong-Pest Mgte	12	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	700	various roads
50	2017	3	Copelin, Malcolm	Agostini, Jess		07-Jun-18	Pest Management	Woden/Weston-Pest Mgte	3	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	100	hughes
50	2017	4	Copelin, Malcolm	Agostini, Jess		07-Jun-18	Pest Management	Inner South-Pest Mgte	1	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	450	flynn dr
50	2017	5	Hourigan, Celia			08-Jun-18	Pest Management	Belconnen-Pest Mgte	6	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	west belsonnen
50	2017	6	Copelin, Malcolm	Agostini, Jess		08-Jun-18	Floriade 17	General-non specific	2	Pre-emergent	Floral displays	Mulched or cultivated	Surflan			0			ml			30	annuals and bulbs
50	2017	7	Copelin, Malcolm	Agostini, Jess		08-Jun-18	Floriade 17	General-non specific	14	Plant Health	Floral displays	Mulched or cultivated	Plant Health product									1400	various
50	2017	8	Copelin, Malcolm	Agostini, Jess	Hourigan, Celia	09-Jun-18	Floriade 17	General-non specific	4	Pre-emergent	Floral displays	Mulched or cultivated	Surflan			0			ml			80	annuals and bulbs
50	2017	9	Copelin, Malcolm	Agostini, Jess	Hourigan, Celia	09-Jun-18	Floriade 17	General-non specific	8	Plant Health	Floral displays	Mulched or cultivated	Plant Health product									900	annuals and bulbs

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
50	2017	10	Schultz, Peter			09-Jun-18	Pest Management	Inner South-Pest Mgte	4	Sucker Control	Open Space	Trees	Roundup			1			L			1	cut and dab
50	2017	11	Copelin, Malcolm	Agostini, Jess		12-Jun-18	Floriade 17	General-non specific	4	Plant Health	Floral displays	Mulched or cultivated	Plant Health product									450	annuals and bulbs
50	2017	12	Copelin, Malcolm	Agostini, Jess		12-Jun-18	Floriade 17	General-non specific	2	Pests & Disease	Floral displays	Plant Foliage	Banrot 400			60			g			450	annuals and bulbs
50	2017	13	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	13-Jun-18	Pest Management	Woden/Weston-Pest Mgte	8	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	250	curtin
50	2017	14	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	13-Jun-18	Pest Management	Tuggeranong-Pest Mgte	24	Domestic & Enviro Pests	Aquatic Areas	Irrigated grass	Insecticide			0			ml			900	C.hourigan and D.patterson also worked on this project. poisoning carp fadden hills pond. used rotadone 1.1kg per 100l
50	2017	15	Patterson, Daniel	Hourigan, Celia		13-Jun-18	Pest Management	Inner South-Pest Mgte	6	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	100	various
49	2017	2	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	31-May-18	Floriade 17	General-non specific	1	Pre-emergent	Floral displays	Mulched or cultivated	Surflan			0			ml			5	annuals and bulbs
49	2017	3	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	31-May-18	Floriade 17	General-non specific	2	Plant Health	Floral displays	Mulched or cultivated	Plant Health product									250	used biosea, bulbs and annuals
49	2017	4	Patterson, Daniel	Hourigan, Celia	Russell, Louis	31-May-18	Pest Management	S&R South	4	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product				95					800	used biosea, lockout. chisolm, greenway
49	2017	5	Patterson, Daniel	Hourigan, Celia		31-May-18	Pest Management	S&R North	12	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									2000	used biosea
49	2017	6	Patterson, Daniel	Hourigan, Celia		01-Jun-18	Pest Management	S&R South	2	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									250	used biosea. gowrie
49	2017	7	Agostini, Jess	Warren, Daniel	Copelin, Malcolm	01-Jun-18	Pest Management	Inner South-Pest Mgte	4	General Weed	Roadways	Dryland grass	Glyphosate	Simanex 900	Red Dye	1	110	100	L	g	ml	200	canb ave
49	2017	8	Warren, Daniel	Agostini, Jess	Copelin, Malcolm	01-Jun-18	Floriade 17	General-non specific	8	Plant Health	Shrub beds	Mulched or cultivated	Plant Health product									1400	garden beds
49	2017	9	Copelin, Malcolm	Warren, Daniel	Agostini, Jess	01-Jun-18	Floriade 17	General-non specific	6	Pre-emergent	Floral displays	Mulched or cultivated	Surflan			0			ml			25	annuals and bulbs
49	2017	10	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	02-Jun-18	Pest Management	Tuggeranong-Pest Mgte	30	General Weed	Aquatic Areas	Hardstanding areas	Glyphosate	Red Dye		1	100		L	ml		300	d.patterson and c.hourigan aslo spraying. various sites
49	2017	11	Schultz, Peter			02-Jun-18	Pest Management	Inner North-Pest Mgte	6	Sucker Control	Aquatic Areas	Trees	Glyphosate			20			L			1	suckers, stormwater
49	2017	12	Patterson, Daniel			04-Jun-18	Pest Management	Belconnen-Pest Mgte	8	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	520	west belconne roads

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49	2017	13	Copelin, Malcolm			05-Jun-18	Floriade 17	General-non specific	7	Plant Health	Floral displays	Plant Foliage	Plant Health product									1250	usedamino gro, rhitzovital, nitro humos, urea 11kg, npk 24kg. annuals and bulbs
49	2017	14	Copelin, Malcolm			05-Jun-18	Floriade 17	General-non specific	1	Pre-emergent	Floral displays	Mulched or cultivated	Surflan			0			ml			70	annuals and bulbs
49	2017	15	Patterson, Daniel	Hourigan, Celia		05-Jun-18	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Red Dye	Urigan	1	100	0	L	ml	kg	400	west belconnen roads
49	2017	16	Patterson, Daniel	Hourigan, Celia		06-Jun-18	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Medians	Mulched or cultivated	Urigan	Glyphosate	Red Dye	0	1	100	kg	L	ml	350	west belconnen roads
49	2017	17	Copelin, Malcolm	Agostini, Jess		06-Jun-18	Pest Management	Inner South-Pest Mgte	4	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	450	curruthers st - curtin
49	2017	18	Copelin, Malcolm	Agostini, Jess		06-Jun-18	Pest Management	Tuggeranong-Pest Mgte	8	Pre-emergent	Medians	Mulched or cultivated	Urigan	Glyphosate	Red Dye	0	1	100	kg	L	ml	700	kambah, drakeford dr, kambah pool road, sulwood dr
49	2017	19	Agostini, Jess	Copelin, Malcolm		06-Jun-18	Pest Management	Woden/Weston-Pest Mgte	2	Pre-emergent	Medians	Mulched or cultivated	Urigan	Glyphosate	Red Dye	0	1	100	kg	L	ml	100	hughes
51	2017	1	Patterson, Daniel	Hourigan, Celia		14-Jun-18	Pest Management	Belconnen-Pest Mgte	14	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	500	scullin
51	2017	2	Copelin, Malcolm	Agostini, Jess		14-Jun-18	Pest Management	Tuggeranong-Pest Mgte	14	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	wanniassa, sulwood
51	2017	3	Copelin, Malcolm	Agostini, Jess		14-Jun-18	Floriade 17	General-non specific	2	Plant Health	Floral displays	Mulched or cultivated	Ferilizer			0			g			450	annuals
51	2017	4	Warren, Daniel	Duffell, John		14-Jun-18	Pest Management	Woden/Weston-Pest Mgte	10	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	250	hughes, garran, chifely, o'malley
51	2017	5	Warren, Daniel	Duffell, John		14-Jun-18	Pest Management	Tuggeranong-Pest Mgte	6	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	200	sulwood dr
51	2017	6	Copelin, Malcolm	Agostini, Jess		15-Jun-18	Floriade 17	General-non specific	2	Pre-emergent	Floral displays	Mulched or cultivated	Surflan			0			ml			10	annuals and bulbs
51	2017	7	Copelin, Malcolm	Agostini, Jess		15-Jun-18	Floriade 17	General-non specific	6	Plant Health	Floral displays	Mulched or cultivated	Ferilizer			0			g			450	also used urea 2kg,NPK 3kg
51	2017	8	Duffell, John	Warren, Daniel		15-Jun-18	Pest Management	Inner South-Pest Mgte	8	Sucker Control	Open Space	Trees	Glyphosate			1			L			3	cut and dab
51	2017	9	Warren, Daniel	Copelin, Malcolm	Agostini, Jess	16-Jun-18	Floriade 17	General-non specific	20	Plant Health	Floral displays	Mulched or cultivated	Plant Health product									1800	c.hourigan and d.patterson.... annuals and bulbs. used biomax, boron amino, aminoplus
51	2017	10	Schultz, Peter			16-Jun-18	Pest Management	Inner North-Pest Mgte	4	Sucker Control	Open Space	Trees	Roundup			1			L			1	cut and dab, haig park

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52	2017	3	Copelin, Malcolm	Agostini, Jess		21-Jun-18	Floriade 17	General-non specific	2	Pre-emergent	Floral displays	Mulched or cultivated	Surflan			0			ml			35	annuals and bulbs
52	2017	4	Copelin, Malcolm	Agostini, Jess		21-Jun-18	Floriade 17	General-non specific	2	Plant Health	Floral displays	Plant Foliage	Ferilizer			0			g			450	used amino gro, rhitzovital, nitro humos
52	2017	5	Warren, Daniel	Duffell, John		21-Jun-18	Pest Management	Tuggeranong-Pest Mgte	8	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	yamba dr, melrose
52	2017	6	Warren, Daniel	Duffell, John		21-Jun-18	Pest Management	Woden/Weston-Pest Mgte	8	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	150	yamba, hindmarsh, melrose
52	2017	7	Patterson, Daniel	Hourigan, Celia		22-Jun-18	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	300	belconnen way, evatt
52	2017	8	Warren, Daniel	Duffell, John		22-Jun-18	Pest Management	Woden/Weston-Pest Mgte	16	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	700	various roads
52	2017	9	Copelin, Malcolm	Agostini, Jess	Hourigan, Celia	23-Jun-18	Floriade 17	General-non specific	5	Plant Health	Floral displays	Plant Foliage	Ferilizer			0			g			850	annuals and bulbs
52	2017	10	Copelin, Malcolm	Agostini, Jess	Hourigan, Celia	23-Jun-18	Floriade 17	General-non specific	4	Pre-emergent	Floral displays	Mulched or cultivated	Surflan			0			ml			50	annuals and bulbs
52	2017	11	Copelin, Malcolm	Agostini, Jess	Hourigan, Celia	23-Jun-18	Pest Management	S&R South	18	Environmental Weed	Open Space	Dryland grass	Glyphosate			1			L			600	used kennock not in chemical list. project at equestrian park
52	2017	12	Schultz, Peter			23-Jun-18	Pest Management	Inner North-Pest Mgte	1	Sucker Control	Open Space	Trees	Roundup			1			L			0	cut and dab
52	2017	13	Patterson, Daniel	Hourigan, Celia		25-Jun-18	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	300	melba, belconnen way
52	2017	14	Copelin, Malcolm	Agostini, Jess		25-Jun-18	Pest Management	Tuggeranong-Pest Mgte	12	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	450	drakeford dr
52	2017	15	Copelin, Malcolm	Agostini, Jess		25-Jun-18	Floriade 17	General-non specific	4	Plant Health	Floral displays	Plant Foliage	Plant Health product									450	used amino gro, nitro humos,rhitzovital
52	2017	16	Warren, Daniel	Duffell, John		25-Jun-18	Pest Management	Tuggeranong-Pest Mgte	12	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	isabella dr
52	2017	17	Warren, Daniel	Duffell, John		25-Jun-18	Pest Management	Woden/Weston-Pest Mgte	4	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	100	athlon dr
52	2017	18	Warren, Daniel	Duffell, John		26-Jun-18	Pest Management	Woden/Weston-Pest Mgte	6	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	300	athlon dr, beasly st
52	2017	19	Warren, Daniel	Duffell, John		26-Jun-18	Pest Management	Tuggeranong-Pest Mgte	3	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	200	isabella r, johnson dr
52	2017	20	Copelin, Malcolm	Agostini, Jess		26-Jun-18	Pest Management	Tuggeranong-Pest Mgte	8	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	300	drakeford dr, calwell
52	2017	21	Patterson, Daniel	Hourigan, Celia		26-Jun-18	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	700	belco way, coulter dr

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52	2017	22	Copelin, Malcolm	Agostini, Jess		27-Jun-18	Pest Management	Woden/Weston-Pest Mgte	3	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	110	hughes, chifely
52	2017	23	Copelin, Malcolm	Agostini, Jess		27-Jun-18	Pest Management	Tuggeranong-Pest Mgte	7	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	300	banks, conder
52	2017	24	Copelin, Malcolm	Agostini, Jess		27-Jun-18	Floriade 17	General-non specific	2	Pre-emergent	Floral displays	Mulched or cultivated	Surflan			0			ml			35	annuals and bulbs
52	2017	25	Copelin, Malcolm	Agostini, Jess		27-Jun-18	Floriade 17	General-non specific	2	Plant Health	Floral displays	Mulched or cultivated	Ferilizer			0			g			450	annuals and ulbs
52	2017	26	Patterson, Daniel	Hourigan, Celia		27-Jun-18	Pest Management	Belconnen-Pest Mgte	14	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	500	coulter dr
52	2017	27	Warren, Daniel	Duffell, John		27-Jun-18	Pest Management	Woden/Weston-Pest Mgte	16	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	600	various
51	2017	11	Patterson, Daniel	Hourigan, Celia		18-Jun-18	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	sculin, kingsford smith dr
51	2017	12	Copelin, Malcolm	Agostini, Jess		18-Jun-18	Pest Management	Woden/Weston-Pest Mgte	4	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	150	hindmarsh dr
51	2017	13	Warren, Daniel	Duffell, John		18-Jun-18	Pest Management	Tuggeranong-Pest Mgte	12	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	650	various roads
51	2017	14	Warren, Daniel	Duffell, John		18-Jun-18	Pest Management	Woden/Weston-Pest Mgte	4	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	150	yamba dr, hindmarsh dr
51	2017	15	Copelin, Malcolm	Agostini, Jess		19-Jun-18	Floriade 17	General-non specific	2	Pre-emergent	Floral displays	Mulched or cultivated	Surflan			0			ml			25	annuals and bulbs
51	2017	16	Copelin, Malcolm	Agostini, Jess		19-Jun-18	Floriade 17	General-non specific	10	Plant Health	Floral displays	Mulched or cultivated	Ferilizer			0			g			900	also used NPK 15kgs, urea 8kgs
51	2017	17	Patterson, Daniel	Hourigan, Celia		19-Jun-18	Pest Management	Belconnen-Pest Mgte	14	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	300	belco way, southern cross dr
51	2017	18	Warren, Daniel	Duffell, John		19-Jun-18	Pest Management	Tuggeranong-Pest Mgte	16	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	600	gowrie, fadden
51	2017	19	Patterson, Daniel	Hourigan, Celia		20-Jun-18	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	southern cross dr, page
51	2017	20	Copelin, Malcolm	Warren, Daniel	Duffell, John	20-Jun-18	Pest Management	Woden/Weston-Pest Mgte	20	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	700	phillip, hindmarsh dr
51	2017	21	Copelin, Malcolm	Warren, Daniel	Duffell, John	20-Jun-18	Floriade 17	General-non specific	2	Pre-emergent	Floral displays	Mulched or cultivated	Surflan			0			ml			35	annuals and bulbs
51	2017	22	Warren, Daniel	Copelin, Malcolm	Duffell, John	20-Jun-18	Floriade 17	General-non specific	2	Plant Health	Floral displays	Mulched or cultivated	Ferilizer			0			g			450	annuals and bulbs
52	2017	1	Copelin, Malcolm	Agostini, Jess		21-Jun-18	Pest Management	Tuggeranong-Pest Mgte	10	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	athlonn dr,greenway

PeriodID	Financial Year	LineNumber	Operator1	Operator2	Operator3	Date	CostCentre	Project	Hours	PestType	AssetType	SurfaceType	Chemical1	Chemical2	Chemical3	Rate1	Rate2	Rate3	Measure1	Measure2	Measure3	Mixed Chemical Use	Remarks
52	2017	2	Copelin, Malcolm	Agostini, Jess		21-Jun-18	Pest Management	Woden/Weston-Pest Mgte	2	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	50	o'malley
1	2018	1	Copelin, Malcolm	Agostini, Jess		28-Jun-18	Pest Management	S&R South	6	Plant Health	Oval Surrounds	Irrigated grass	Plant Health product									1200	Used Biosea - Woden , Greenway, Gowrie, Phillip
1	2018	2	Copelin, Malcolm	Agostini, Jess		29-Jun-18	Pest Management	Tuggeranong-Pest Mgte	12	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	Condor, Gordon Tharwa drive and woodcock drive
1	2018	3	Copelin, Malcolm	Agostini, Jess		29-Jun-18	Pest Management	Woden/Weston-Pest Mgte	4	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	100	Hindmarsh drive
1	2018	4	Patterson, Daniel	Hourigan, Celia		29-Jun-18	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	Coulter drive belconnen
1	2018	5	Warren, Daniel	Duffell, John		29-Jun-18	Pest Management	Tuggeranong-Pest Mgte	12	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	250	Tharwa drive
1	2018	6	Warren, Daniel	Duffell, John		26-Jun-18	Pest Management	Woden/Weston-Pest Mgte	4	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	50	Hindmarsh drive
1	2018	7	Patterson, Daniel	Hourigan, Celia		30-Jun-18	Pest Management	Gungahlin-Pest Mgte	12	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	400	Gungarlin Drive, Mitchell
1	2018	8	Copelin, Malcolm	Hourigan, Celia	Warren, Daniel	30-Jun-18	Pest Management	Gungahlin-Pest Mgte	12	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	450	Gungarlin Drive
1	2018	9	Copelin, Malcolm	Agostini, Jess	Warren, Daniel	30-Jun-18	Pest Management	Inner North-Pest Mgte	10	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	350	Madura Pky, Majura Road
1	2018	10	Schultz, Peter			30-Jun-18	Pest Management	Belconnen-Pest Mgte	2	Insect Pests	Open Space	Dryland grass	Tempo			0			ml			40	Kaleen ants x 2
1	2018	11	Schultz, Peter			30-Jun-18	Pest Management	Woden/Weston-Pest Mgte	4	Insect Pests	Open Space	Dryland grass	Tempo			0			ml			100	Phillip and Lyons x 4
1	2018	12	Patterson, Daniel	Hourigan, Celia		02-Jul-18	Pest Management	Belconnen-Pest Mgte	16	Pre-emergent	Medians	Mulched or cultivated	Glyphosate	Urigan	Red Dye	1	0	100	L	kg	ml	600	Cook belconnen way and Ginderra drive