

NATIONAL POLLUTANT INVENTORY - REPORTING FORM



Section A : Reporting Facility Information

FACILITY INFORMATION

Registered Company (or other Legal Entity) Name ¹

Facility Name (if different from Registered Name)

Registered Address (if applicable) ^{1, 2}

<input type="text"/>	
<input type="text"/>	
<input type="text"/>	<input type="text"/>

Australian Company Number (ACN) (if applicable) ¹

Australian Business Number (ABN) ²

Street Address of the Facility

<input type="text"/>	
<input type="text"/>	
<input type="text"/>	<input type="text"/>

Environment Agency Licence No.(s) (if applicable) ²

Facility Location (either as AMG ³ or latitude/ longitude co-ordinates)

AMG Zone	AMG Easting	AMG Northing
<input type="text"/>	<input type="text"/>	<input type="text"/>
OR	Latitude	Longitude
	° ' "	° ' "

Australian New Zealand Standard Industrial Classification (ANZSIC) Code

Briefly describe the main activities or processes conducted at this facility

<input type="text"/>
<input type="text"/>
<input type="text"/>

FOR PUBLIC ENQUIRIES

Name (optional)

Position

Telephone Number

Public email address (if applicable)

Web Address (if applicable) for hotlink from NPI internet database

FOR TECHNICAL ENQUIRIES ²

Name

Position

Postal Address for Technical Contact ⁴

<input type="text"/>	
<input type="text"/>	
<input type="text"/>	<input type="text"/>

Telephone number

Technical Contact email address (if applicable)

OTHER

Average number of full time employees, contractors or equivalent working at this facility

¹ Information registered with Australian Securities Commission.

² These fields will not be made public.

³ Australian Map Grid Reference

⁴ Address for technical communications. While the other details listed under "For Technical Queries" will not be made public, the address identified here will be published as the postal address of the reporting facility.

Section B: Substance Emission Information

REPORTING PERIOD: Start Date: __ / __ / __ End Date: __ / __ / __

PART 1 : NPI THRESHOLD DETERMINATION

Category 1 Threshold

In the "Usage" column of Part 2 below, enter your usage of Cat 1 or 1a substances (those in the unshaded boxes) applicable to your operation. The thresholds for these are 10 tonnes/yr (Cat 1), except for Total Volatile Organic Compounds, which is 25 tonnes/yr (Cat 1a).

Category 2 Threshold

In the following table, enter quantity and type of fuel burnt in tonnes per year and the total of these amounts.

Fuel Type	Natural Gas	LPG	Distillate /diesel	Fuel Oil	Waste Oil	Briquettes	Brown Coal	Black Coal	Wood or Wood Waste	Bagasse	Other (please specify)	TOTAL
Fuel Burnt (t/yr)												

Note – Table 1 substances are listed in bold.

Emission Estimation Technique (EET) Codes	
EET codes	EET description
1	Mass balance
2	Engineering calculations
3	Direct measurement
4	Emission factors
5	Approved alternative EET

Q. a) Is one tonne or more of fuel burnt in any one hour during the reporting period ?

YES / NO

Q. b) Is the total fuel burnt in the table above in excess of 400 tonnes per year?

YES / NO

If you answered yes to Q(a) or Q(b), you have tripped the Category 2a threshold and must report emissions of : Carbon monoxide, Fluoride compounds, **Hydrochloric Acid**, NO_x, PM₁₀, PAHs, SO₂, **Total VOC**.

Q. c) Is 60,000 Megawatt hours or more of energy consumed in the reporting period?

YES / NO

Q. d) Is the maximum potential power consumption of the facility rated at 20 megawatts or more ?

YES / NO

Q. e) Does the total fuel burnt exceed 2,000 tonnes per year?

YES / NO

If you have answered yes to question Q(c), Q(d) or Q(e), you have tripped the Category 2b threshold and must report emissions of : Category 2a (listed above) substances, plus **Arsenic**, Beryllium, **Cadmium**, **Chromium (III)**, **Chromium (VI)**, **Copper**, **Lead**, **Mercury**, **Nickel** & their compounds, Magnesium oxide fume, **Nickel carbonyl** & **Nickel subsulfide**, Polychlorinated dioxins & furans.

Category 3 Threshold (Total N & Total P only)

If you emit to water 15 tonnes per year (or more) of Total Nitrogen , or 3 tonnes per year (or more) of Total Phosphorus, you are required to report this/ these emission(s) in the table below.

Please Circle

PART 2 : SUBSTANCE USAGE & EMISSIONS

You are required to report emissions of only those substances that have tripped a threshold. You are not required to report emissions for all substances on this list. Note: entries in the Usage column are to be in tonnes, but in the emissions column entries are to be in kilograms.

SUBSTANCE	CASR No	USAGE ¹ (t/yr)	EMISSIONS TO AIR (kg/yr)						EMISSIONS TO WATER (kg/yr)					EMISSIONS TO LAND (kg/yr)										
			From Stack or Point Sources			From fugitive or non-point sources			Total Emission	Total Emission	EET code(s)					Total Emission	EET code(s)							
			Amount	EET code(s)				Amount			EET code(s)													
1 Acetaldehyde	75-07-0																							
2 Acetic acid (ethanoic acid)	64-19-7																							
3 Acetone	67-64-1																							
4 Acetonitrile	75-05-8																							
5 Acrylamide	79-06-1																							
6 Acrylic acid	79-10-7																							
7 Acrylonitrile (2-propenenitrile)	107-13-1																							
8 Ammonia (total)	N/A																							
9 Aniline (benzenamine)	62-53-3																							
10 Antimony & compounds	7440-36-0																							
11 Arsenic & compounds	7440-38-2																							
12 Benzene	71-43-2																							
13 Benzene hexachloro- (HCB)	118-74-1																							
14 Beryllium & compounds	7440-41-7																							

1. The NPI Threshold categories applicable for each substance can be found in Tables 1 & 2 of the *National Pollutant Inventory Guide*.

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15	Biphenyl (1,1-biphenyl)	92-52-4			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
16	Boron & compounds	7440-42-8			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
17	1,3- Butadiene (vinyl ethylene)	106-99-0			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
18	Cadmium & compounds	7440-43-9			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
19	Carbon disulfide	75-15-0			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
20	Carbon monoxide	630-08-0			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
21	Chlorine	7782-50-5			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
22	Chlorine dioxide	10049-04-4			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
23	Chloroethane (ethyl chloride)	75-00-3			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
24	Chloroform (trichloromethane)	67-66-3			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
25	Chlorophenols (di, tri, tetra)	N/A			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
26	Chromium(III) compounds	7440-47-3			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
27	Chromium(VI) compounds	7440-47-3			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
28	Cobalt & compounds	7440-48-4			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
29	Copper & compounds	7440-50-8			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
30	Cumene (1-methylethylbenzene)	98-82-8			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
31	Cyanide (inorganic) compounds	N/A			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
32	Cyclohexane	110-82-7			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
33	1,2-Dibromoethane	106-93-4			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
34	Dibutyl phthalate	84-74-2			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
35	1,2-Dichloroethane	107-06-2			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
36	Dichloromethane	75-09-2			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
37	Ethanol	64-17-5			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
38	2-Ethoxyethanol	110-80-5			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
39	2-Ethoxyethanol acetate	111-15-9			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
40	Ethyl acetate	141-78-6			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
41	Ethyl butyl ketone	106-35-4			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
42	Ethylbenzene	100-41-4			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
43	Ethylene glycol (1,2-ethanediol)	107-21-1			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
44	Ethylene oxide	75-21-8			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
45	Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
46	Fluoride compounds	N/A			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
47	Formaldehyde (methyl aldehyde)	50-00-0			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
48	Glutaraldehyde	111-30-8			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
49	n-Hexane	110-54-3			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
50	Hydrochloric acid	7647-01-0			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
51	Hydrogen sulfide	7783-06-4			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5
52	Lead & compounds	7439-92-1			1	2	3	4	5			1	2	3	4	5			1	2	3	4	5

1. The NPI Threshold categories applicable for each substance can be found in Tables 1 & 2 of the *National Pollutant Inventory Guide*.

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53	Magnesium oxide fume	1309-48-4			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
54	Manganese & compounds	7439-96-5			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
55	Mercury & compounds	7439-97-6			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
56	Methanol	67-56-1			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
57	2-Methoxyethanol	109-86-4			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
58	2-Methoxyethanol acetate	110-49-6			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
59	Methyl ethyl ketone	78-93-3			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
60	Methyl isobutyl ketone	108-10-1			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
61	Methyl methacrylate	80-62-6			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
62	4,4'-Methylene-bis(2-chloroaniline) (MOCA)	101-14-4			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
63	Methylenebis (phenylisocyanate)	101-68-8			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
64	Nickel & compounds	7440-02-0			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
65	Nickel carbonyl	13463-39-3			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
66	Nickel subsulfide	12035-72-2			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
67	Nitric acid	7697-37-2			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
68	Organo-tin compounds	N/A			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
69	Oxides of Nitrogen	N/A			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
70	Particulate Matter 10.0 um (PM ₁₀)	N/A			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
71	Phenol	108-95-2			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
72	Phosphoric acid	7664-38-2			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
73	Polychlorinated dioxins and furans	N/A			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
74	Polycyclic aromatic hydrocarbons	N/A			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
75	Selenium & compounds	7782-49-2			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
76	Styrene (ethenylbenzene)	100-42-5			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
77	Sulfur dioxide	7446-09-5			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
78	Sulfuric acid	7664-93-9			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
79	1,1,1,2-Tetrachloroethane	630-20-6			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
80	Tetrachloroethylene	127-18-4			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
81	Toluene (methylbenzene)	108-88-3			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
82	Toluene-2,4-diisocyanate	584-84-9			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
83	Total Nitrogen	N/A			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
84	Total Phosphorus	N/A			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
85	Total Volatile Organic Compounds (VOC)	N/A			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
86	1,1,2-Trichloroethane	79-00-5			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
87	Trichloroethylene	79-01-6			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
88	Vinyl Chloride Monomer	75-01-4			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
89	Xylenes (individual or mixed isomers)	1330-20-7			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5
90	Zinc and compounds	7440-66-6			1	2	3	4	5				1	2	3	4	5				1	2	3	4	5

1. The NPI Threshold categories applicable for each substance can be found in Tables 1 & 2 of the *National Pollutant Inventory Guide*.

Section C: Emission Reduction Activities

These activities/equipment modifications describe the ways in which a facility has reduced emissions to air, water and/ or land of the substances used or produced on site. Note that the activity/ technique chosen represents current practice at your facility, whether it has been in place for some time or only recently adopted.

1. CLEANER PRODUCTION ACTIVITIES (Source Reduction)

Please tick the appropriate activities, if any, which best describe source reduction techniques carried out at your facility.

- | | |
|---|--|
| <input type="checkbox"/> A1. Improved maintenance scheduling, record keeping, or procedures | <input type="checkbox"/> A10. Modified packaging |
| <input type="checkbox"/> A2. Change from solvent based to aqueous based raw materials | <input type="checkbox"/> A11. Implemented inspection or monitoring program for potential spill or leak sources |
| <input type="checkbox"/> A3. Changed production schedules to minimise equipment / feedstock changeovers | <input type="checkbox"/> A12. Dust suppression - water sprays / chemical suppression |
| <input type="checkbox"/> A4. Modified process, equipment, layout, or piping | <input type="checkbox"/> A13. Use of "cleaner" raw materials |
| <input type="checkbox"/> A5. Improved procedures for loading, unloading and transfer operations | <input type="checkbox"/> A14. Dust suppression - wind breaks / covered / enclosed stockpiles |
| <input type="checkbox"/> A6. Installation of high-pressure/ low-volume cleaning equipment | <input type="checkbox"/> A15. Other modifications / practices (please specify) |
| <input type="checkbox"/> A7. Installed overflow alarms or automatic shut-off valves | |
| <input type="checkbox"/> A8. Changed product specifications | |
| <input type="checkbox"/> A9. Installed vapour recovery systems | |

2. INSTALLATION OF POLLUTION CONTROL EQUIPMENT ("End of Pipe" Reduction)

These equipment types describe pollution control equipment used to reduce discharges at the end of the process. Please tick the appropriate box if your site currently employs any of these technologies.

- | | | |
|---|---|--|
| <input type="checkbox"/> E1. Electrostatic precipitator | <input type="checkbox"/> E7. Cyclone | <input type="checkbox"/> E14. Other pollution control equipment (please specify below) |
| <input type="checkbox"/> E2. Water / steam injection (gas turbines) | <input type="checkbox"/> E8. Biofilter | |
| <input type="checkbox"/> E3. Fabric filter | <input type="checkbox"/> E9. Low NOx burner | |
| <input type="checkbox"/> E4. Lean / staged combustion | <input type="checkbox"/> E10. Activated carbon filter | |
| <input type="checkbox"/> E5. Scrubber | <input type="checkbox"/> E11. Selective catalytic reduction | |
| <input type="checkbox"/> E6. Flue gas recirculation | <input type="checkbox"/> E12. Incineration | |
| | <input type="checkbox"/> E13. Selective non-catalytic reduction | |

3. OTHER EMISSION REDUCTION INFORMATION ¹

1. For any substances reported to the NPI in the previous reporting year, was there a DECREASE in emissions? (if you answered NO you have completed Section C) YES / NO

2. In the following table please name up to five substances for which there was the greatest percentage reduction in your emissions, and tick the box that most correctly describes why the reduction occurred:

	1	2	3	4	5
Substance Name					
Substance number (from the numbered list in Worksheet B)					
Cleaner production activities*					
Pollution Control Equipment*					
The use of different emission estimation techniques					
Lower production levels					
Other (please specify)					

* Cleaner production and pollution control methods should be specified in Section 1 and 2 respectively.

¹ This section will not be made public.

