ANNUAL RETURN

LICENCE NO	**5042**
LICENCE HOLDER	PASMINCO COCKLE CREEK SMELTER PTY LIMITED
REPORTING PERIOD	01-Mar-2013 to 28-Feb-2014

If your licence has been transferred, suspended, surrendered or revoked by the EPA during this reporting period, cross out the dates above and specify the new dates to which this Annual Return relates below:

REVISED REPORTING PERIOD _____ / _____ / _____ to _____ / _____ / _____

(Note: the revised reporting period also needs to be entered in Section E)

THIS ANNUAL RETURN MUST BE RECEIVED BY THE EPA ON OR BEFORE 29-Apr-2014

Your Annual Return must be completed, including certification in Section E, and supplied to the EPA no later than 60 Days after the end of the reporting period for your licence.

Failure to submit this Annual Return within 60 days after the reporting period ends may result in:

- **the issue of a Penalty Notice for $750 (individuals) or $1500 (corporations);**

OR

- **prosecution.**

Please send your completed Annual Return by **Registered Post** to:

Regulatory and Compliance Support Unit
Environment Protection Authority
PO Box A290
SYDNEY SOUTH NSW 1232

It is an offence to supply any information in this form to the EPA that is false or misleading in a material respect, or to certify a statement that is false or misleading in a material respect.

THERE IS A MAXIMUM PENALTY OF $250,000 FOR A CORPORATION OR $120,000 FOR AN INDIVIDUAL.

Details provided in this Annual Return will be available on the EPA's Public Register in accordance with section 308 of the *Protection of the Environment Operations Act 1997.*

Use the checklist below to ensure that you have completed your Annual Return correctly.
(✓ the boxes)

CHECKLIST		
☐	Section A:	All licence details are correct
☐	Section B1:	You have entered the correct number in the complaints table
☐	Section B2 – B3:	If there are tables, you have provided the required details
☐	Section C:	You have answered question 1, and 2 if applicable
☐	Section D:	If applicable, you have completed all load calculation worksheets
☐	Section E:	You have answered question 1, 2, 3, 4, 5 and 6 if applicable
☐	Section F:	You have answered question 1, 2 and 3 if applicable
☐	Section G:	The Annual Return has been signed by appropriate person(s) and, if applicable, the revised reporting period entered
☐	Make a copy of the completed Annual Return and keep it with your licence records	
☐	Attach a cheque (unless you have paid separately) for the payment of the administrative fee for the next licence fee period	

Please send your completed Annual Return by **Registered Post** to:

Regulatory and Compliance Support Unit
Environment Protection Authority
PO Box A290
SYDNEY SOUTH NSW 1232

A Statement of Compliance - Licence Details

ALL licence holders must check that the licence details in Section A are correct

If there are changes to any of these details**you must advise the EPA and apply as soon as possible for a variation to your licence or for a licence transfer.**

Licence variation and transfer application forms are available on the EPA website at: http://www.epa.nsw.gov.au/licensing, or from regional offices of the EPA, or by contacting us on telephone 02 9995 5700.

If you are applying to vary or transfer your licence you must still complete this Annual Return.

A1 Licence Holder

Licence Number	5042
Licence Holder	PASMINCO COCKLE CREEK SMELTER PTY LIMITED
Trading Name *(if applicable)*	
ABN	30 000 083 670

A2 Premises to which Licence Applies (if applicable)

Common Name (if any)	PASMINCO COCKLE CREEK SMELTER & INCITEC FERTILIZERS
Premises	MAIN ROAD BOOLAROO NSW 2284

A3 Activities to which Licence Applies

Waste Disposal (application to land)
Waste Storage

A4 Other Activities (if applicable)

A5 Fee-Based Activity Classifications

Note that the fee based activity classification is used to calculate the administrative fee.

Fee-based activity	Activity scale	Unit of measure
Waste disposal by application to land		annual capacity
Waste storage - hazardous, restricted solid, liqui	> 0.00	T stored

A6 Assessable Pollutants (Not Applicable)

B Monitoring and Complaints Summary

B1 Number of Pollution Complaints

Number of complaints recorded by the licensee during the reporting period. **If no complaints were received enter nil in the attached box, otherwise complete the table below.**	2

Pollution Complaint Category	Number of Complaints
Air	1
Water	1
Noise	0
Waste	0
Other	0

B2 Concentration Monitoring Summary

For each monitoring point identified in your licence complete all the details for each pollutant listed in the tables provided below.

If concentration monitoring is **not** required by your licence, **no tables** will appear below.
Note that this does not exclude the need to conduct appropriate concentration monitoring of assessable pollutants as required by load-based licensing (if applicable).

Discharge & Monitoring Point 18

Discharge to waters
Effluent quality monitoring, Licensed Discharge and Monitoring Point 18. From Effluent Treatment Plant as shown on drawing titled "Water Monitoring Locations Pasminco Cockle Creek Remediation Site", prepared by RCA Australia, dated 8/1/2013 and attached to EPA file LIC07/838-06.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value

Arsenic	milligrams per litre	230	230	<0.001	0.003	0.011
Cadmium	milligrams per litre	230	230	<0.0001	0.0028	0.094
Lead	milligrams per litre	230	230	<0.0005	0.0018	0.096
Mercury	milligrams per litre	230	230	<0.00005	0.00005	0.0003
pH	pH	230	230	5.6	7.9	9.3
Selenium	milligrams per litre	230	230	<0.001	0.0076	0.012
Total suspended solids	milligrams per litre	230	230	3	14	97
Zinc	milligrams per litre	230	230	0.002	0.196	1.63

* WHERE CONCENTRATIONS ARE LESS THAN DETECTION LIMITS, HALF OF THE LOR HAS BEEN USED.

Monitoring Point 19

Stormwater discharge quality monitoring, Licensed Monitoring Point 19 as shown on drawing titled "Water Monitoring Locations Pasminco Cockle Creek Remediation Site", prepared by RCA Australia, dated 8/1/2013 and attached to EPA file LIC07/838-06.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Arsenic	milligrams per litre	9	9	0.001	0.008	0.015
Cadmium	milligrams per litre	9	9	0.0556	0.075	0.1080
Lead	milligrams per litre	9	9	0.001	0.0276	0.064
Mercury	milligrams per litre	9	9	<0.0001	0.00001	0.0001
Selenium	milligrams per litre	9	9	0.01	0.01	0.01

Total suspended solids	milligrams per litre	9	9	14	319	1670
Zinc	milligrams per litre	9	9	1·76	2·403	3·26

Monitoring Point 21

Groundwater quality monitoring, Licensed Monitoring Point 21 as shown on drawing titled "Water Monitoring Locations Pasminco Cockle Creek Remediation Site", prepared by RCA Australia, dated 8/1/2013 and attached to EPA file LIC07/838-06.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Ammonia	milligrams per litre	2	2	0.04	0.05	0.05
Bicarbonate	milligrams per litre	2	2	37.0	41.0	45.0
Cadmium	milligrams per litre	2	2	0	0	0
Calcium	milligrams per litre	2	2	2.0	2.0	2.0
Chloride	milligrams per litre	2	2	205	220	235
Conductivity	microsiemens per centimetre	2	2	990	994	998
Fluoride	milligrams per litre	2	2	0.3	0.3	0.3
Lead	milligrams per litre	2	2	0	0	0
Magnesium	milligrams per litre	2	2	4.0	4.0	4.0
Oxidation Reduction Potential	millivolts	2	2	-84	37.15	158.3
pH	pH	2	2	4.85	5.28	5.70

Potassium	milligrams per litre	2	2	2.0	2.0	2.0
Sodium	milligrams per litre	2	2	182	200.5	219
Sulfate	milligrams per litre	2	2	92	94	96
Total dissolved solids	milligrams per litre	2	2	643.5	646.1	648.7
Zinc	milligrams per litre	2	2	0.02	0.05	0.07

Monitoring Point 27

Groundwater quality monitoring, Licensed Monitoring Point 27 as shown on drawing titled "Water Monitoring Locations Pasminco Cockle Creek Remediation Site", prepared by RCA Australia, dated 8/1/2013 and attached to EPA file LIC07/838-06.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Ammonia	milligrams per litre	2	2	0.03	0.03	0.03
Bicarbonate	milligrams per litre	2	2	118	134.5	151
Cadmium	milligrams per litre	2	2	1.2	7	12.80
Calcium	milligrams per litre	2	2	12	13	14
Chloride	milligrams per litre	2	2	44	62	80
Conductivity	microsiemens per centimetre	2	2	597	740	883
Fluoride	milligrams per litre	2	2	1.10	1.45	1.80
Lead	milligrams per litre	2	2	0	0	0

Magnesium	milligrams per litre	2	2	15	16	17
Oxidation Reduction Potential	millivolts	2	2	145	199.5	254
pH	pH	2	2	5.73	5.86	5.99
Potassium	milligrams per litre	2	2	4	5.5	7
Sodium	milligrams per litre	2	2	86	113.5	141
Sulfate	milligrams per litre	2	2	102	123	144
Total dissolved solids	milligrams per litre	2	2	388.1	481	574
Zinc	milligrams per litre	2	2	100	287	474

Monitoring Point 34

Deposition monitoring, Licensed Monitoring Point 34 as shown on drawing titled "Amended Air Monitoring Network Pasminco Cockle Creek Remediation Site", prepared by RCA Australia, dated 8/1/2013 and attached to EPA file LIC07/838-06.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Lead	grams per square metre per month	12	12	0.0003 *	0.0007 ^	0.0015
Particulates - Deposited Matter	grams per square metre per month	12	12	0.3	2.1	10.7

* WHEN Pb concentrations less than detection limits half of the limit of reporting has been used

Monitoring Point 37

^ concentrations less than detection limits half the limit of reporting has been used in the mean calculation.

Deposition monitoring, Licensed Monitoring Point 37 as shown on drawing titled "Amended Air Monitoring Network Pasminco Cockle Creek Remediation Site", prepared by RCA Australia, dated 8/1/2013 and attached to EPA file LIC07/838-06.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Lead	grams per square metre per month	12	12	0.0003	0.0006	0.00053
Particulates - Deposited Matter	grams per square metre per month	12	12	0.1	2.1	5.1

Monitoring Point 39

Ambient air monitoring, Licensed Monitoring Point 39 as shown on drawing titled "Amended Air Monitoring Network Pasminco Cockle Creek Remediation Site", prepared by RCA Australia, dated 8/1/2013 and attached to EPA file LIC07/838-06.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Arsenic	micrograms per cubic metre	61	61	0.0002	0.0017	0.0164
Cadmium	micrograms per cubic metre	61	61	0.0002	0.0004	0.0026
Lead	micrograms per cubic metre	61	61	0.0023	0.0150	0.0679
Mercury	micrograms per cubic metre	61	61	0.0002	0.0002	0.0004
M10	micrograms per cubic metre	CONTINUOUS 365	237	0.0	20.7	77.2
Selenium	micrograms per cubic metre	61	61	0.0002	0.0007	0.0027
Total Solid Particles	micrograms per cubic metre	61	61	13.8	46.2	225.0
Zinc	micrograms per cubic metre	61	61	0.0230	0.0549	0.4040

WHEN CONCENTRATIONS ARE LESS THAN DETECTION LIMITS, HALF OF THE LIMIT OF REPORTING HAS BEEN USED.

Monitoring Point 40

Dust deposition monitoring, Licensed Monitoring Point 40 as shown on drawing titled "Amended Air

Monitoring Network Pasminco Cockle Creek Remediation Site", prepared by RCA Australia, dated 8/1/2013 and attached to EPA file LIC07/838-06.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Lead	grams per square metre per month	12	12	0.0003 *	0.0012 ^	0.0041
Particulates - Deposited Matter	grams per square metre per month	12	12	0.2	1.2	2.9

Monitoring Point 41

Deposition monitoring, Licensed Monitoring Point 41 as shown on drawing titled "Amended Air Monitoring Network Pasminco Cockle Creek Remediation Site", prepared by RCA Australia, dated 8/1/2013 and attached to EPA file LIC07/838-06.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Lead	grams per square metre per month	12	11	0.0004 *	0.0055	0.051
Particulates - Deposited Matter	grams per square metre per month	12	11	0.3	8.6	63.2

Monitoring Point 42

Deposition monitoring, Licensed Monitoring Point 42 as shown on drawing titled "Amended Air Monitoring Network Pasminco Cockle Creek Remediation Site", prepared by RCA Australia, dated 8/1/2013 and attached to EPA file LIC07/838-06.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Lead	grams per square metre per month	12	12	0.0003 *	0.0012 ^	0.0039
Particulates - Deposited Matter	grams per square metre per month	12	12	0.2	0.9	2.8

* WHEN Pb CONCENTRATIONS LESS THAN DETECTION LIMITS, HALF OF THE LIMIT OF REPORTING HAS BEEN USED

Monitoring Point 43

^ CONCENTRATIONS LESS THAN DETECTION LIMITS, HALF OF THE LIMIT OF REPORTING HAS BEEN USED. IN THE MEAN CALCULATION.

Ambient air monitoring, Licensed Monitoring Point 43 as shown on drawing titled "Amended Air Monitoring

Network Pasminco Cockle Creek Remediation Site", prepared by RCA Australia, dated 8/1/2013 and attached to EPA file LIC07/838-06.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Arsenic	micrograms per cubic metre	61	61	0.00015	0.00169	0.01082
Cadmium	micrograms per cubic metre	61	61	0.00015	0.00098	0.01476
Lead	micrograms per cubic metre	61	61	0.00283	0.02472	0.15182
Mercury	micrograms per cubic metre	61	61	0.00015	0.00019	0.00025
M10	micrograms per cubic metre	CONTINUOUS 365	156	0.0	21.5	82.7
Selenium	micrograms per cubic metre	61	61	0.00015	0.00077	0.00120
Total Solid Particles	micrograms per cubic metre	61	61	14.0	46.5	190.0
Zinc	micrograms per cubic metre	61	61	0.02334	0.06100	0.19300

Monitoring Point 44

ormwater quality monitoring, Licensed Monitoring Point 44 as shown on drawing titled "Water Monitoring Locations Pasminco Cockle Creek Remediation Site", prepared by RCA Australia, dated 8/1/2013 and attached to EPA file LIC07/838-06.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Arsenic	milligrams per litre	5	5	0.001	0.002	0.004
Cadmium	milligrams per litre	5	5	0.101	0.1142	0.139
Lead	milligrams per litre	5	5	0.002	0.0076	0.016

Mercury	milligrams per litre	5	5	0.0001	0.0001	0.0001
Selenium	milligrams per litre	5	5	0.01	0.03	0.04
Total suspended solids	milligrams per litre	5	5	32	132	300
Zinc	milligrams per litre	5	5	0.731	0.83	0.954

Monitoring Point 45

Groundwater monitoring, Licensed Monitoring Point 45 as shown on drawing titled "Water Monitoring Locations Pasminco Cockle Creek Remediation Site", prepared by RCA Australia, dated 8/1/2013 and attached to EPA file LIC07/838-06.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Ammonia	milligrams per litre	2	2	0.84	0.89	0.93
Bicarbonate	milligrams per litre	2	2	141	144.50	148
Cadmium	milligrams per litre	2	2	4.19	4.27	4.34
Calcium	milligrams per litre	2	2	76	91.50	107
Chloride	milligrams per litre	2	2	90	98	106
Conductivity	microsiemens per centimetre	2	2	1652	1711	1770
Fluoride	milligrams per litre	2	2	2.10	2.25	2.40
Lead	milligrams per litre	2	2	0.02	0.04	0.07
Magnesium	milligrams per litre	2	2	13	14.5	16.

Oxidation Reduction Potential	millivolts	2	2	102	173	244
pH	pH	2	2	6.0	6.55	7.10
Potassium	milligrams per litre	2	2	21	21.5	22
Sodium	milligrams per litre	2	2	267	272.5	278
Sulfate	milligrams per litre	2	2	560	598	636
Total dissolved solids	milligrams per litre	2	2	1073.8	1112 .2	1150.5
Zinc	miiligrams per litre	2	2	12.5	13.35	14.20

Monitoring Point 46

Groundwater monitoring, Licensed Monitoring Point 46 as shown on drawing titled "Water Monitoring Locations Pasminco Cockle Creek Remediation Site", prepared by RCA Australia, dated 8/1/2013 and attached to EPA file LIC07/838-06.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Ammonia	milligrams per litre	2	2	0.01	0.02	0.03
Bicarbonate	milligrams per litre	2	2	4.0	4.0	4.0
Cadmium	milligrams per litre	2	2	0.11	0.19	0.28
Calcium	milligrams per litre	2	2	18	21.5	25
Chloride	milligrams per litre	2	2	32	41	50
Conductivity	microsiemens per centimetre	2	2	339	385.5	432

Fluoride	milligrams per litre	2	2	3·4	3·6	3·8
Lead	milligrams per litre	2	2	0·01	0·01	0·02
Magnesium	milligrams per litre	2	2	5·0	7·0	9·0
Oxidation Reduction Potential	millivolts	2	2	184	246	308
pH	pH	2	2	5·47	5·72	5·96
Potassium	milligrams per litre	2	2	7	8·5	10
S[illegible]m	milligrams per litre	2	2	34	45	56
Sulfate	milligrams per litre	2	2	92	124	156
Total dissolved solids	milligrams per litre	2	2	220·4	250·6	280·8
Zinc	milligrams per litre	2	2	0·67	1·14	1·61

Monitoring Point 47 - COULD NOT BE SAMPLED BECAUSE WELL WAS BLOCKED.

Groundwater quality monitoring, Licensed Monitoring Point 47 as shown on drawing titled "Water Monitoring Locations Pasminco Cockle Creek Remediation Site", prepared by RCA Australia, dated 8/1[illegible]3 and attached to EPA file LIC07/838-06.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Ammonia	milligrams per litre					
Bicarbonate	milligrams per litre					
Cadmium	milligrams per litre					

Calcium	milligrams per litre					
Chloride	milligrams per litre					
Conductivity	microsiemens per centimetre	2	1	165	165	165*
Fluoride	milligrams per litre					
Lead	milligrams per litre					
Magnesium	milligrams per litre					
idation Reduction Potential	millivolts	2	1	313	313	313
pH	pH					
Potassium	milligrams per litre					
Sodium	milligrams per litre					
Sulfate	milligrams per litre					
Total dissolved ds	milligrams per litre					
Zinc	milligrams per litre					

* READING FROM JUNE 20 ONLY.

Monitoring Point 48

Groundwater quality monitoring, Licensed Monitoring Point 48 as shown on drawing titled "Water Monitoring Locations Pasminco Cockle Creek Remediation Site", prepared by RCA Australia, dated 8/1/2013 and attached to EPA file LIC07/838-06.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value

Ammonia	milligrams per litre	2	2	0·07	0·07	0·07
Bicarbonate	milligrams per litre	2	2	2	2	2
Cadmium	milligrams per litre	2	2	2·4	2·4	2·4
Calcium	milligrams per litre	2	2	5	5	5
Chloride	milligrams per litre	2	2	182	188	194
Conductivity	microsiemens per centimetre	2	2	1340	1464·5	1589
Fluoride	milligrams per litre	2	2	0·7	0·8	0·9
Lead	milligrams per litre	2	2	11	22·5	34
Magnesium	milligrams per litre	2	2	14	15	16
Oxidation Reduction Potential	millivolts	2	2	190	316	442
pH	pH	2	2	4·18	4·30	4·42
Potassium	milligrams per litre	2	2	4	4	4
Sodium	milligrams per litre	2	2	242	247	252
Sulfate	milligrams per litre	2	2	297	318·5	340
Total dissolved solids	milligrams per litre	2	2	871	952	1032·9
Zinc	milligrams per litre	2	2	200	202	204

Monitoring Point 49

Groundwater quality monitoring, Licensed Monitoring Point 49 as shown on drawing titled "Water Monitoring Locations Pasminco Cockle Creek Remediation Site", prepared by RCA Australia, dated 8/1/2013 and attached to EPA file LIC07/838-06.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Ammonia	milligrams per litre	2	2	0·01	0·03	0·04
Bicarbonate	milligrams per litre	2	2	56	77	98
Cadmium	milligrams per litre	2	2	0	0	0
Calcium	milligrams per litre	2	2	76	104	132
Chloride	milligrams per litre	2	2	797	1033·5	1270
Conductivity	microsiemens per centimetre	2	2	7250	7610	7970
Fluoride	milligrams per litre	2	2	0·5	0·5	0·5
Lead	milligrams per litre	2	2	0	0	0
Magnesium	milligrams per litre	2	2	146	200	254
Oxidation Reduction Potential	millivolts	2	2	91	225	359
pH	pH	2	2	5·82	5·84	5·86
Potassium	milligrams per litre	2	2	15	18	21
Sodium	milligrams per litre	2	2	1250	1390	1530

Sulfate	milligrams per litre	2	2	1940	2130	2320
Total dissolved solids	milligrams per litre	2	2	4712.5	4946.5	5180.5
Zinc	milligrams per litre	2	2	0.03	0.09	0.15

B3 Volume or Mass Monitoring Summary

For each monitoring point identified in your licence complete the details of the volume or mass monitoring indicated in the tables provided below.

If volume or mass monitoring is not required by your licence, **no tables** will appear below.

Note that this does not exclude the need to conduct appropriate concentration monitoring of assessable pollutants as required by load-based licensing (if applicable).

Discharge & Monitoring Point 18

Discharge to waters
Effluent quality monitoring

Unit of measure	Frequency	No. of measurements made	Lowest result	Mean result	High result
kilolitres per day	Daily	218	81	3318	4499

C Statement of Compliance - Licence Conditions

C1 Compliance with Licence Conditions

(☑ the boxes)

1 Were all conditions of the licence complied with (including monitoring and reporting requirements)? ☐ Yes ☑ No

(✓ a box)

2 If you answered 'No' to question 1, please supply the following details for each non -compliance in the format, or similar format , provided on the following page.

Please use a separate page for each licence condition that has not been complied with.

a) What was the specific licence condition that was not complied with?

b) What were the particulars of the non -compliance?

c) What were the date(s) when the non -compliance occurred, if applicable?

d) If relevant, what was the precise location where the non -compliance occurred?

Attach a map or diagram to the Statement to show the precise location.

e) What were the registrati on numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance?

f) What was the cause of the non-compliance?

g) What action has been, or will be, taken to mitigate any adverse effects of the non -compliance?

h) What action has been, or will be, taken to prevent a recurrence of the non -compliance?

3. How many pages have you attached? 9

Each attached page must be initialled by the person(s) who signs Section G of this Annual Return

C2 Details of Non-Compliance with Licence

Licence condition number not complied with
L1.1
Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)
On 1 – 6 March 2013 (inclusive) an overflow of untreated stormwater occurred via the licensed overflow Point 19 at the South West Dam in the direction of the Triangular Paddock and towards Cockle Creek. The incident was reported to the EPA Hotline on 1March 2013 at 5pm and recorded as Incident No 16248.
If required, further details on particulars of non-compliance
Further details of the non-compliance were provided to the EPA by letter dated 7 March 2013.
Date(s) when the non-compliance occurred, if applicable
1 March 2013 – 6 March 2013
If relevant, precise location where the non-compliance occurred (attach a map or diagram)
The discharge occurred via the licensed overflow Point 19 at the South West Dam in the direction of the Triangular Paddock and towards Cockle Creek.
If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance
NA
Cause of non-compliance
The discharge occurred following a period of heavy rain which filled the South West Dam resulting in the overflow. Pumping form the South West Dam to the ETP and to Saltwater 1A continued during the overflow.
Action taken or that will be taken to mitigate any adverse effects of the non-compliance
In view of the heavy rain, no specific actions were taken to mitigate any adverse effects of the non-compliance, but efforts continued to appropriately manage stormwater on site.
Action taken or that will be taken to prevent a recurrence of the non-compliance
Continue to process stored (untreated) water through the ETP and discharge offsite. Manage dams on site to maximise storage capacity and minimise risk of further overflow incidents.

C2 Details of Non-Compliance with Licence

Licence condition number not complied with
L1.1
Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)
On 1 – 6 March 2013 (inclusive) an overflow of untreated stormwater occurred via the licensed overflow Point 44 at Dam E in the direction of Cockle Creek. The incident was reported to the EPA Hotline on 1March 2013 at 9am and recorded as Incident No 03450.
If required, further details on particulars of non-compliance
Further details of the non-compliance were provided to the EPA by letter dated 7 March 2013.
Date(s) when the non-compliance occurred, if applicable
1 March 2013 – 6 March 2013
If relevant, precise location where the non-compliance occurred (attach a map or diagram)
The discharge occurred via the licensed overflow Point 44 at Dam E in the direction of Cockle Creek.
If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance
NA
Cause of non-compliance
The discharge occurred following a period of heavy rain which filled Dam E resulting in the overflow. Pumping form the Dam E to the ETP continued during the overflow.
Action taken or that will be taken to mitigate any adverse effects of the non-compliance
In view of the heavy rain, no specific actions were taken to mitigate any adverse effects of the non-compliance, but efforts continued to appropriately manage stormwater on site.
Action taken or that will be taken to prevent a recurrence of the non-compliance
Continue to process stored (untreated) water through the ETP and discharge offsite. Manage dams on site to maximise storage capacity and minimise risk of further overflow incidents.

C2 Details of Non-Compliance with Licence

Licence condition number not complied with
L1.1
Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)
On 18 – 20 November 2013 (inclusive) an overflow of untreated stormwater occurred via the licensed overflow Point 44 at Dam E in the direction of Cockle Creek. The incident was reported to the EPA Hotline on 18 November 2013 at 9.45 am and recorded as Incident No C18829.
If required, further details on particulars of non-compliance
Further details of the non-compliance were provided to the EPA by letter dated 27 November 2013.
Date(s) when the non-compliance occurred, if applicable
18 – 20 November 2013
If relevant, precise location where the non-compliance occurred (attach a map or diagram)
The discharge occurred via the licensed overflow Point 44 at Dam E in the direction of Cockle Creek.
If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance
NA
Cause of non-compliance
The discharge occurred following a period of heavy rain which filled Dam E resulting in the overflow. Pumping form the Dam E to the ETP continued during the overflow.
Action taken or that will be taken to mitigate any adverse effects of the non-compliance
In view of the heavy rain, no specific actions were taken to mitigate any adverse effects of the non-compliance, but efforts continued to appropriately manage stormwater on site.
Action taken or that will be taken to prevent a recurrence of the non-compliance
Continue to process stored (untreated) water through the ETP and discharge offsite. Manage dams on site to maximise storage capacity and minimise risk of further overflow incidents.

C2 Details of Non-Compliance with Licence

Licence condition number not complied with
L3.4
Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)
Point 18 Discharge from treatment plant for Cadmium was over 100 percentile concentration limits of 0.04mg/l on 4 occasions out of the 230 days of discharge 19/11/2013 = 0.094mg/l, 25/11/2013 = 0.0595mg/l, 10/12/2013 = 0.0452mg/l, 15/02/2014 = 0.0696mg/l. The mean result 0.0028mg/l being well below the 90 percentile concentration limits of 0.02mg/l.
If required, further details on particulars of non-compliance
NA
Date(s) when the non-compliance occurred, if applicable
19/11/2013, 25/11/2013, 10/12/2013, 15/02/2014
If relevant, precise location where the non-compliance occurred (attach a map or diagram)
Water treatment plant Licence Point 18
If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance
NA
Cause of non-compliance
Elevated levels within feedwater
Action taken or that will be taken to mitigate any adverse effects of the non-compliance
In view of the small number of readings < 2% exceeding the target criteria and the mean result 0.0028mg/l being well below the 90 percentile concentration limits of 0.02mg/l no specific actions were taken. Treated water was within specification within 24 hours in each of the 4 occasions.
Action taken or that will be taken to prevent a recurrence of the non-compliance
Continue to process stored (untreated) water through the ETP and discharge offsite. Continue to review laboratory results and implement any corrective actions if required.

Annual Return

PASMINCO COCKLE CREEK SMELTER PTY LIMITED

C2 Details of Non-Compliance with Licence

Licence condition number not complied with
L3.4
Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)
Point 18 Discharge from treatment plant for Zinc was over 100 percentile concentration limits of 0.4mg/l during 4 periods of operation. The mean result 0.196mg/l over the 230 days of operation was below the 90 percentile concentration limits of 0.2mg/l.
If required, further details on particulars of non-compliance
NA
Date(s) when the non-compliance occurred, if applicable
8/2 – 28/2, 19/11 – 12/12, 28/3 -2/4 and 25/1/2014
If relevant, precise location where the non-compliance occurred (attach a map or diagram)
Water treatment plant Licence Point 18
If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance
NA
Cause of non-compliance
Elevated levels within feedwater. Background zinc levels within site soils.
Action taken or that will be taken to mitigate any adverse effects of the non-compliance
Continued monitoring of laboratory data. Maintain higher Ph levels within water treatment plant to reduce zinc levels. Ensure treatment chemicals are not stored for excessive periods which may result in reduced effectiveness. The mean result 0.196mg/l over the 230 days of operation was below the 90 percentile concentration limits of 0.2mg/l. The NSW drinking water standard for Zinc is 3mg/l or below.
Action taken or that will be taken to prevent a recurrence of the non-compliance
Continue to process stored (untreated) water through the ETP and discharge offsite. Continue to review laboratory results and implement any corrective actions if required.

C2 Details of Non-Compliance with Licence

Licence condition number not complied with
M2.3
Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)
Monitoring Point 47 could not be sampled because well was dry.
If required, further details on particulars of non-compliance
NA
Date(s) when the non-compliance occurred, if applicable
1 March 2013 – 28 February 2014
If relevant, precise location where the non-compliance occurred (attach a map or diagram)
Monitoring Point 47 represented as 'C02'
If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance
NA
Cause of non-compliance
The well was dry. Field records indicated measured well depth at 2.49m BTOC. Historical data indicated well was installed at approximately 9.0m BGL and screened between 2.5 – 9.0m BGL.
Action taken or that will be taken to mitigate any adverse effects of the non-compliance
Monitoring reports by Golder Associates indicate groundwater sampled may not be representative of actual aquifer condition.
Action taken or that will be taken to prevent a recurrence of the non-compliance
Monitoring Point 47 well not to be included in the long term monitoring network in the Groundwater Monitoring & management Plan. Well to be decommissioned.

C2 Details of Non-Compliance with Licence

Licence condition number not complied with
P1.1
Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)
Monitoring Point 41. Samples required = 12 , Samples collected = 11.
If required, further details on particulars of non-compliance
NA
Date(s) when the non-compliance occurred, if applicable
October 2013
If relevant, precise location where the non-compliance occurred (attach a map or diagram)
NA
If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance
NA
Cause of non-compliance
Dust gauge vandalised.
Action taken or that will be taken to mitigate any adverse effects of the non-compliance
Dust gauge replaced.
Action taken or that will be taken to prevent a recurrence of the non-compliance
No action taken.

Annual Return

PASMINCO COCKLE CREEK SMELTER PTY LIMITED

C2 Details of Non-Compliance with Licence

Licence condition number not complied with
P1.1
Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)
Monitoring Point 39. Continuous sampling required, however sampling not possible due to equipment malfunction.
If required, further details on particulars of non-compliance
NA
Date(s) when the non-compliance occurred, if applicable
1 July – 3 September 2013, 16 & 17th January 2014.
If relevant, precise location where the non-compliance occurred (attach a map or diagram)
NA
If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance
NA
Cause of non-compliance
Equipment (TEOM machine) malfunction.
Action taken or that will be taken to mitigate any adverse effects of the non-compliance
TEOM machine serviced, repaired and calibrated.
Action taken or that will be taken to prevent a recurrence of the non-compliance
Regular servicing of TEOM units.

C2 Details of Non-Compliance with Licence

Licence condition number not complied with
Monitoring Point 43
Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)
Continuous sampling required however sampling not possible due to equipment malfunction (software related).
If required, further details on particulars of non-compliance
N/A
Date(s) when the non-compliance occurred, if applicable
6 March - 30 September 2013
If relevant, precise location where the non-compliance occurred (attach a map or diagram)
N/A
If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance
N/A
Cause of non-compliance
Equipment (TEOM machine) malfunction
Action taken or that will be taken to mitigate any adverse effects of the non-compliance
TEOM machine serviced, repaired and calibrated
Action taken or that will be taken to prevent a recurrence of the non-compliance
Regular service

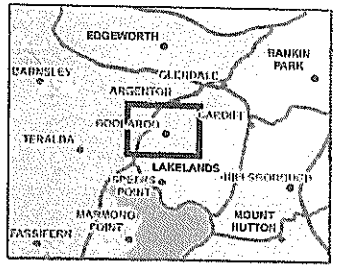
C2 Details of Non-Compliance with Licence

Licence condition number not complied with
P1.1
Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)
Continuous sampling required however sampling not possible due to equipment malfunction (software related).
If required, further details on particulars of non-compliance
NA
Date(s) when the non-compliance occurred, if applicable
6 March – 30 September 2013
If relevant, precise location where the non-compliance occurred (attach a map or diagram)
NA
If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance
NA
Cause of non-compliance
Equipment (TEOM machine) malfunction.
Action taken or that will be taken to mitigate any adverse effects of the non-compliance
TEOM machine serviced, repaired and calibrated.
Action taken or that will be taken to prevent a recurrence of the non-compliance
Regular servicing of TEOM units.

PASMINCO COCKLE CREEK SMELTER SITE, BOOLAROO, NSW

FERRIER HODGSON

SHALLOW GROUNDWATER CONTOURS - BIANNUAL GROUNDWATER SAMPLING EVENT, DECEMBER 2013



LEGEND

- Shallow Monitoring Well
- Pumping Wells
- (30.59) Groundwater Level Elevation (m AHD)
- Shallow Groundwater Contour (m AHD)

Remediation Work Areas

- Cardiff West Estate
- Munibung Hill
- Triangular Paddock
- Old Smelter Site
- Mixed Use Zone
- Cell
- IFL Property

DRAFT

NOTE

Gauging data for 124S and 138S not available due to flood water. Gauging data for 137S, BH9 and MW05 not available as well had been destroyed.

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1. Aerial Photography Copyright NearMap Pty Ltd
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Image Georeferenced by Golder and intended
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More information can be found here:
http://www.nearmap.com/

2. Base map data copyright MapInfo Australia Pty Ltd

0 50 100 200 300 400 metres

SCALE (at A3) 1:7,500

Coordinate System: GDA 1994 MGA Zone 56

PROJECT: 137625003
DATE: 21/01/2014
DRAWN: FA / KB
CHECKED: KY

FIGURE 3

Golder Associates

D Statement of Compliance - Load-Based Fee Calculation Worksheets

If you are not required to monitor assessable pollutants by your licence, no worksheets will appear below. Please go to Section E.

If assessable pollutants have been identified on your licence (see licence condition L2), complete the following worksheets for each assessable pollutant to determine your load-based fee for the licence fee period to which this Annual Return relates.

Loads of assessable pollutants must be calculated using any of the methods provided in the EPA's Load Calculation Protocol for the relevant activity. A Load Calculation Protocol would have been sent to you with your licence. If you require additional copies you can download the Protocol from the EPA's website or you can contact us on telephone 02 9995 5700.

You are required to keep all records used to calculate licence fees for four years after the licence fee was paid or became payable, whichever is the later date.

PENALTIES APPLY FOR SUPPLYING FALSE OR MISLEADING INFORMATION

D1 - D8 (Not Applicable)

E Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan (PIRMP) Under Section 153A of the POEO Act 1997

1 Have you prepared a PIRMP as required under s153A of the Protection of the Environment Operations Act 1997?

(✓ a box) ☑ Yes ☐ No

If you answered 'Yes' to question 1, please tick the appropriate box to indicate the following:

2 Is the PIRMP available at the premises?

(✓ a box) ☑ Yes ☐ No

3 Is the PIRMP available in a prominent position on a publicly accessible web site?

(✓ a box) ☑ Yes ☐ No

If the PIRMP is available on a publicly accessible web site please indicate clearly below the address of the web site where the PIRMP can be accessed:

Web site Address: www.pasminco.com.au

4 Has the PIRMP been tested?

(✓ a box) ☑ Yes ☐ No

If you answered 'Yes' to question 4 please indicate clearly below the date that the PIRMP was last tested:

The PIRMP was last tested on: 3 MARCH 2014.

5 Has the PIRMP been updated?

(✓ a box) ☐ Yes ☑ No

If you answered 'Yes' to question 5 please indicate clearly below the date that the PIRMP was last updated:

The PIRMP was last updated on:

6 How many times has the PIRMP been activated in this reporting period? 2

If the PIRMP has been activated, please indicate clearly below the date/s when the PIRMP was activated:

The PIRMP was activated on: 1/3/2013, 18/11/2013,

The EPA's guidelines for preparation of pollution incident response management plans are available at

http://www.epa.nsw.gov.au/legislation/20120227eqpreppirmp.htm

F Statement of Compliance - Requirement to Publish Pollution Monitoring Data Under Section 66(6) of the POEO Act 1997

1 Are there any conditions attached to your licence that require pollution monitoring to be undertaken?

(✓ a box) ☑ Yes ☐ No

If you answered 'Yes' to question 1, please tick the appropriate box to indicate the following:

2 Do you operate a web site?

(✓ a box) ☑ Yes ☐ No

3 Is the pollution monitoring data published on your web site in accordance with the EPA's written requirements for publishing pollution monitoring data?

(✓ a box) ☑ Yes ☐ No

If you publish pollution monitoring data on a web site please indicate clearly below the address of the web site where the pollution monitoring data can be accessed:

Web site address: www.pasminco.com.au

The EPA's written requirements for publishing pollution monitoring data are available at http://www.epa.nsw.gov.au/legislation/20120263reqpubpmdata.htm

Note - if you do not maintain a web site, you must provide a copy of any monitoring data that relates to pollution, to any person requests a copy of the data at no charge to the person requesting the data.

G Signature and Certification

This Annual Return may only be signed by a person(s) with legal authority to sign it as set out in the categories below. **Please tick (✓) the box** next to the category that describes how this Annual Return is being signed.

If you are uncertain about who is entitled to sign or which category to tick, please contact us on telephone 02 9995 5700.

If the licence holder is:		the Annual Return must be signed and certified:
an individual	☐	by the individual licence holder, or
	☐	by a person approved in writing by the EPA to sign on the licence holder's behalf
a company	☐	by affixing the common seal in accordance with Corporations Act 2001, or
	☐	by 2 directors, or
	☐	by a director and a company secretary, or
	☐	if a proprietary company that has a sole director who is also the sole company secretary – by that director, or
	☑	by a person delegated to sign on the company's behalf in accordance with the Corporations Act 2001 **and** approved in writing by the EPA to sign on the company's behalf.
a public authority (other than a council)	☐	by the Chief Executive Officer of the public authority, or
	☐	by a person delegated to sign on the public authority's behalf in accordance with its legislation **and** approved in writing by the EPA to sign on the public authority's behalf.
a local council	☐	by the General Manager in accordance with s.377 of the Local Government Act 1993, or
	☐	by affixing the seal of the council in a manner authorised under that Act.

It is an offence to supply any information in this form that is false or misleading in a material respect, or to certify a statement that is false or misleading in a material respect. There is a maximum penalty of $250,000 for a corporation or $120,000 for an individual.

I/We

- *declare that the information in the Monitoring and Complaints Summary in section B of this Annual Return is correct and not false or misleading in a material respect, and*
- *certify that the information in the Statement of Compliance in sections A, C, D, E and F and any pages attached to Section C is correct and not false or misleading in a material respect.*

If your licence has been transferred, suspended, surrendered or revoked by the EPA during this reporting period, cross out the dates below and specify the new dates to which this Annual Return relates below:

For the reporting period 01-Mar-2013 to 28-Feb-2014 or ____/____/____ to ____/____/____

SIGNATURE:_____ SIGNATURE:_____

NAME: (printed) PETER McCLUSKEY

DEED ADMINISTRATOR

POSITION: PASMINCO COCKLE CREEK SMELTER PTY LTD (DOCA) "PCCS"

DATE: 23 / 7 / 2014

NAME: (printed)_____

POSITION:_____

DATE:_____/_____/_____

SEAL(if signing under seal)

PLEASE ENSURE THAT ALL APPROPRIATE BOXES HAVE BEEN COMPLETED AND THAT THE CHECKLIST ON PAGE 2 OF THE ANNUAL RETURN HAS BEEN COMPLETED