

Mines and Petroleum Regulations Amendment Regulations 2025

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Petroleum and Geothermal Energy Resources Act 1967
Petroleum and Geothermal Energy Resources (Registration Fees)
Act 1967
Petroleum Pipelines Act 1969
Petroleum (Submerged Lands) Act 1982
Petroleum (Submerged Lands) Registration Fees Act 1982

Mines and Petroleum Regulations Amendment Regulations 2025

Made by the Governor in Executive Council.

Part 1 — Preliminary

1. Citation

These regulations are the *Mines and Petroleum Regulations Amendment Regulations 2025*.

2. Commencement

These regulations come into operation as follows —

- (a) Part 1 — on the day on which these regulations are published on the WA legislation website (*publication day*);
- (b) Parts XX and XX — on the day on which the *Petroleum Legislation Amendment Act 2024* section 33 comes into operation;
- (c) the rest of the regulations — on the day after publication day.

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**Part 2 — *Petroleum and Geothermal Energy Resources
(Environment) Regulations 2012* amended**

3. Regulations amended

This Part amends the *Petroleum and Geothermal Energy Resources (Environment) Regulations 2012*.

4. Regulation 1 amended

In regulation 1 delete “*Petroleum and Geothermal Energy Resources*” and insert:

Petroleum, Geothermal Energy and Greenhouse Gas Storage

5. Regulation 3 amended

In regulation 3 delete “activity or geothermal activity” and insert:

activity, geothermal activity or greenhouse gas activity

6. Regulation 4 amended

- (1) In regulation 4 delete “regulations, unless the contrary intention appears —” and insert:

regulations —

- (2) In regulation 4 delete the definition of *produced formation water*.

(3) In regulation 4 insert in alphabetical order:

greenhouse gas activity —

- (a) means any operations or works carried out in the State —
 - (i) under a greenhouse gas instrument; or
 - (ii) relating to a GHG operation that may have an environmental impact;and
- (b) includes all of the following —
 - (i) seismic or other surveys;
 - (ii) drilling;
 - (iii) construction and installation of a facility;
 - (iv) operation of a facility;
 - (v) modification of a facility;
 - (vi) decommissioning, dismantling or removing a facility;
 - (vii) processing or transporting greenhouse gas;
 - (viii) injection or storage of greenhouse gas in a well, reservoir or subsurface formation;
 - (ix) care and maintenance of land, waters or infrastructure;
 - (x) rehabilitation of land or waters;

greenhouse gas instrument means any of the following —

- (a) a GHG exploration permit;
- (b) a GHG drilling reservation;
- (c) a GHG retention lease;

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- (d) a GHG injection licence;
- (e) a GHG access authority;
- (f) a GHG special prospecting authority;
- (g) any other authority or consent granted by instrument under the Act for the carrying out of operations or works in the State relating to a GHG operation;

produced formation water means natural aqueous fluid recovered from a natural reservoir or resources pool in association with petroleum or a regulated substance;

- (4) In regulation 4 in the definition of ***activity*** delete “activity or a geothermal activity;” and insert:

activity, a geothermal activity or a greenhouse gas activity;

- (5) In regulation 4 in the definition of ***geothermal activity***:

- (a) in paragraph (j) delete “energy;” and insert:

energy; and

- (b) after paragraph (j) insert:

- (k) care and maintenance of land, waters or infrastructure; and
- (l) rehabilitation of land or waters;

- (6) In regulation 4 in the definition of *instrument holder* delete “instrument or a geothermal instrument” and insert:

instrument, a geothermal instrument or a greenhouse gas instrument

- (7) In regulation 4 in the definition of *operator* paragraph (b)(i) and (ii) delete “instrument or geothermal instrument” and insert:

instrument, geothermal instrument or greenhouse gas instrument

- (8) In regulation 4 in the definition of *petroleum activity*:

- (a) in paragraph (b) after “petroleum” insert:

or regulated substance

- (b) in paragraph (j) delete “petroleum;” and insert:

petroleum; and

- (c) after paragraph (j) insert:

- (k) care and maintenance of land, waters or infrastructure; and

- (l) rehabilitation of land or waters;

7. Regulation 15 amended

In regulation 15(8) after “concentration of petroleum” insert:

or regulated substance

Part 3 — *Petroleum and Geothermal Energy Resources (Hydraulic Fracturing) Regulations 2017* amended

8. Regulations amended

This Part amends the *Petroleum and Geothermal Energy Resources (Hydraulic Fracturing) Regulations 2017*.

9. Regulation 1 amended

In regulation 1 delete “*Petroleum and Geothermal Energy Resources*” and insert:

Petroleum, Geothermal Energy and Greenhouse Gas Storage

Part 4 — *Petroleum and Geothermal Energy Resources (Registration Fees) Regulations 1990* amended

10. Regulations amended

This Part amends the *Petroleum and Geothermal Energy Resources (Registration Fees) Regulations 1990*.

11. Regulation 1 replaced

Delete regulation 1 and insert:

1. Citation

These regulations are the *Petroleum, Geothermal Energy and Greenhouse Gas Storage (Registration Fees) Regulations 1990*.

**Part 5 — *Petroleum and Geothermal Energy Resources
Regulations 1987* amended**

12. Regulations amended

This Part amends the *Petroleum and Geothermal Energy Resources Regulations 1987*.

13. Regulation 1 replaced

Delete regulation 1 and insert:

1. Citation

These regulations are the *Petroleum, Geothermal Energy and Greenhouse Gas Storage Regulations 1987*.

14. Regulation 1A amended

In regulation 1A insert in alphabetical order:

additive means a substance that may be safely added to petroleum;

document, in relation to service and lodgment, includes —

- (a) an application for a permit, lease or licence; and
- (b) an application for an extension, a variation, a renewal or a withdrawal; and
- (c) a nomination for the purpose of section 46 or 127A of the Act; and
- (d) an instrument for the purpose of section 42 or 99 of the Act; and
- (e) an instrument of transfer under section 72 of the Act; and

- (f) an instrument evidencing a dealing under section 75 of the Act;

15. Regulation 1B inserted

After regulation 1A insert:

1B. Additives to petroleum

For the purpose of paragraph (b)(ii) of the definition of *petroleum* in section 5(1) of the Act, a prescribed additive is one that has a functional purpose for the recovery of petroleum or a regulated substance.

16. Regulation 4 amended

In regulation 4 delete “prescribed” and insert:

approved

Note: The heading to amended regulation 4 is to read:

Form of instrument of transfer approved (Act s. 72(3)(a))

17. Regulation 5 amended

In regulation 5(1)(f), (g) and (h) delete “*Petroleum and Geothermal Energy Resources*” and insert:

Petroleum, Geothermal Energy and Greenhouse Gas Storage

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18. Regulations 6 and 7 inserted

After regulation 5 insert:

6. Service of documents

- (1) A registered holder must provide an email address for the service of documents by electronic means.
- (2) If the Minister is required to serve a document on the registered holder, the Minister may serve the document as an email attachment to the email address provided by the registered holder.
- (3) A document served by email on a registered holder is taken to have been served —
 - (a) if it is sent before 4.30 pm on a working day — on that day; or
 - (b) otherwise — on the next working day.

7. Lodging documents through Department's website

- (1) A document that is required under the Act to be lodged may be lodged as an electronic version by means of the Department's website.
- (2) A document that is lodged electronically after 4.30 pm on a working day and before 8.30 am on the next working day is taken to have been lodged at 8.30 am on that next working day.
- (3) The Minister may at any time require a person who has lodged a document electronically to lodge it in hard copy form at the Department's customer service counter at Mineral House, 100 Plain Street, East Perth WA 6004.

19. Schedule 1 replaced

Delete Schedule 1 and insert:

Schedule 1 — Prescribed fees

[r. 3(1)]

Column 1 Item	Column 2 Provision of Act	Column 3 Amount of prescribed fee (\$)
1.	s. 31(1)(f)	8 740.00
2.	s. 34(1)(a)	8 320.00
3.	s. 37A(2)(e)	8 320.00
4.	s. 40(2)(c)	8 740.00
5.	s. 40(4)(b)	8 740.00
6.	s. 43B(1)(f)	8 320.00
7.	s. 43F(3)(d)	7 190.00
8.	s. 48A(2)(e)	8 320.00
9.	s. 48A(2A)(d)	8 320.00
10.	s. 48BB(3)(d)	8 320.00
11.	s. 48CA(3)(d)	8 320.00
12.	s. 48F(2)(d)	8 320.00
13.	s. 48F(2A)(c)	8 320.00
14.	s. 51(1)(e)	8 950.00
15.	s. 58(1)(a)	8 740.00

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Column 1 Item	Column 2 Provision of Act	Column 3 Amount of prescribed fee (\$)
16.	s. 61(2)(e)	8 740.00
17.	s. 64(2)(d)	8 320.00
18.	s. 69HI(1)(g)	8 250.00
19.	s. 73(2)	167.00
20.	s. 73(3)(b)	156.00
21.	s. 80(1)	149.00
22.	s. 81(3)	142.00
23.	s. 105(2)(d)	8 740.00
24.	s. 137(a)	2 400.00

20. Schedule 2 amended

- (1) Delete the heading to Schedule 2 and the reference after it and insert:

**Schedule 2 — Form of instrument of transfer of
title under *Petroleum, Geothermal Energy and
Greenhouse Gas Storage Act 1967* s. 72**

[r. 4]

- (2) In Schedule 2 delete “*Petroleum and Geothermal Energy Resources Act 1967*” and insert:

Petroleum, Geothermal Energy and Greenhouse Gas Storage Act 1967

- (3) In Schedule 2 delete “*Petroleum and Geothermal Energy Resources Regulations 1987*” and insert:

Petroleum, Geothermal Energy and Greenhouse Gas Storage Regulations 1987

- (4) In Schedule 2 delete “*Petroleum and Geothermal Energy Resources Act 1967*” and insert:

Petroleum, Geothermal Energy and Greenhouse Gas Storage Act 1967

**Part 6 — Petroleum and Geothermal Energy Resources
(Resource Management and Administration)
Regulations 2015 amended**

21. Regulations amended

This Part amends the *Petroleum and Geothermal Energy Resources (Resource Management and Administration) Regulations 2015*.

22. Regulation 1 amended

In regulation 1 delete “*Petroleum and Geothermal Energy Resources*” and insert:

Petroleum, Geothermal Energy and Greenhouse Gas Storage

23. Regulation 3 amended

Delete regulation 3(a) to (c) and insert:

- (a) to ensure that operations relating to the exploration for petroleum, regulated substances, geothermal energy resources or greenhouse gas storage formations, or the recovery of petroleum, regulated substances or geothermal energy, or injection operations relating to greenhouse gas substances, in the State are —
 - (i) carried out in a proper and workmanlike manner and, in the case of operations relating to the exploration for or recovery of petroleum, in accordance with good oil-field practice; and

- (ii) compatible with the optimum long-term recovery of petroleum, regulated substances and geothermal energy; and
 - (iii) carried out in a way that reduces the risk of aquifer contamination or, in the case of injection operations relating to greenhouse gas substances, aquifer contamination outside the storage formation;
- and
- (b) to ensure that the Minister is informed, in a timely and consistent manner, of —
 - (i) the exploration for petroleum, regulated substances, geothermal energy resources or greenhouse gas storage formations; and
 - (ii) the discovery of petroleum, regulated substances or geothermal energy resources; and
 - (iii) the appraisal of discoveries; and
 - (iv) development and production operations relating to the recovery of petroleum, regulated substances or geothermal energy; and
 - (v) injection operations relating to greenhouse gas substances; and
 - (vi) the results of operations referred to in subparagraph (iv) or (v);
- and
- (c) to provide a framework for encouraging the adequate collection and retention and timely dissemination of petroleum, regulated substances and geothermal energy resources and greenhouse gas data; and

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24. Regulation 4 amended

- (1) In regulation 4 delete “In these regulations, unless the contrary intention appears —” and insert:

(1) In these regulations —

- (2) In regulation 4 delete the definition of *survey*.

- (3) In regulation 4 insert in alphabetical order:

engineering enhancement —

- (a) means an action taken by an individual to facilitate storage of a greenhouse gas substance in an identified GHG storage formation; and
- (b) includes —
 - (i) remediating an existing well from a previous operation that penetrates the storage formation; and
 - (ii) managing formation pressure; and
 - (iii) increasing the injectivity potential;

survey means a geochemical survey, a geological survey, or a geophysical survey, the data from which is intended for use in —

- (a) the exploration for —
 - (i) petroleum; or
 - (ii) regulated substances; or
 - (iii) geothermal energy resources; or
 - (iv) potential GHG storage formations; or
 - (v) sites for the injection of greenhouse gas;
- or

- (b) the appraisal of a discovery of —
 - (i) petroleum; or
 - (ii) regulated substances; or
 - (iii) geothermal energy resources; or
 - (iv) potential GHG storage formations; or
 - (v) sites for the injection of greenhouse gas;or
- (c) the recovery of petroleum, regulated substances or geothermal energy; or
- (d) the injection and permanent storage of greenhouse gas substances;

survey applicant means an instrument holder, or an applicant for an instrument, who makes an application under regulation 6(1);

- (4) In regulation 4 in the definition of **integrity** delete paragraph (b) and insert:

- (b) is able to contain reservoir fluid, petroleum, a greenhouse gas substance or any other substance; and

- (5) In regulation 4 in the definition of **well integrity hazard** after paragraph (b)(ii) insert:

- (iia) a GHG storage formation; or

- (6) At the end of regulation 4 insert:

- (2) For the purposes of paragraph (b) of the definition of **regulated substance** in section 5(1) of the Act, the following are regulated substances —

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- (a) hydrogen;
- (b) helium.

25. Regulation 6 amended

- (1) Delete regulation 6(1) and insert:

- (1) A survey applicant may apply to the Minister for approval to undertake a survey.

- (2) In regulation 6(2)(b):

- (a) in subparagraph (ix) delete “instrument holder;” and insert:

survey applicant;

- (b) in subparagraph (xi) delete “instrument holder” (each occurrence) and insert:

survey applicant

26. Regulation 8 amended

- Delete regulation 8(1) and insert:

- (1) The Minister may ask a survey applicant to provide further written information about the proposed survey.

27. Regulation 9 amended

In regulation 9(3) delete “instrument holder” and insert:

survey applicant

28. Regulation 10 amended

After regulation 10(2)(a)(iii)(II) insert:

(IIA) a GHG storage formation; or

29. Regulation 11 amended

After regulation 11(2)(a)(iii)(II) insert:

(IIA) a GHG storage formation; or

30. Regulation 16 amended

In regulation 16(1)(c)(ii) delete “petroleum,” and insert:

petroleum or a regulated substance,

31. Regulation 34 amended

In regulation 34 delete “section 44 or 48J” and insert:

section 44(1)(a) or (b) or 48J(1)(a) or (b) or 54AA(1)(a) or (b)

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32. Regulation 36 amended

In regulation 36(1) in the definition of *discovery assessment report*:

- (a) in paragraph (b) delete “petroleum” and insert:

resources

- (b) in paragraphs (c) and (e) after “petroleum” insert:

or regulated substance

- (c) in paragraphs (f) and (g) delete “in the petroleum” and insert:

or regulated substance in the resources

33. Regulation 37 amended

Delete regulations 37(2)(b) and (c) and insert:

- (b) in the case of a petroleum retention lessee or a geothermal retention lessee — the information listed in Schedule 2 Division 2; or

- (c) in the case of a GHG retention lessee — the information listed in Schedule 2 Division 2A; or

- (d) in the case of a petroleum licensee or a geothermal licensee — the information listed in Schedule 2 Division 3.

34. Part 6 heading amended

In the heading to Part 6 after “**petroleum**” insert:

or regulated substance

35. Regulation 41 amended

In regulation 41:

(a) delete “from a petroleum” and insert:

or a regulated substance from a resources

(b) in paragraph (b) delete “petroleum,” and insert:

petroleum or regulated substance,

(c) in paragraph (b)(i) delete “petroleum” and insert:

resources

(d) in paragraph (b)(ii) after “petroleum” insert:

or a regulated substance

36. Regulation 47 amended

In regulation 47(1)(b)(ii) delete “petroleum.” and insert:

petroleum or regulated substance.

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37. Regulation 50 amended

- (1) In regulation 50(1) in the definition of *major change*:
- (a) after “petroleum” (1st occurrence) insert:

or a regulated substance
 - (b) in paragraph (a) delete “petroleum pool” and insert:

resources pool
 - (c) in paragraph (b) delete “petroleum pools” and insert:

resources pools
 - (d) in paragraph (d) after “petroleum” (2nd occurrence) insert:

or a regulated substance
- (2) In regulation 50(2) after “petroleum” (2nd occurrence) insert:

or a regulated substance

38. Part 6 Division 5 heading amended

In the heading to Part 6 Division 5 after “**petroleum**” insert:

or regulated substance

39. Regulation 58 amended

- (1) In regulation 58(1):
- (a) after “petroleum” (2nd occurrence) insert:

or a regulated substance
 - (b) delete “petroleum” (3rd occurrence) and insert:

resources
 - (c) delete “petroleum pool.” and insert:

resources pool.
- (2) In regulation 58(2)(d) delete “petroleum; and” and insert:

petroleum or a regulated substance; and

Note: The heading to amended regulation 58 is to read:

Application

40. Regulation 60 amended

- In regulation 60(a)(i) delete “petroleum; and” and insert:

petroleum or a regulated substance; and

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41. Part 7 heading amended

In the heading to Part 7 delete “**petroleum**” and insert:

petroleum, regulated substances

42. Regulation 62 amended

(1) In regulation 62(1) in the definition of *significant event*:

(a) in paragraphs (a) and (b) delete “petroleum” and insert:

petroleum, a regulated substance

(b) in paragraph (c) delete “petroleum” (1st occurrence) and insert:

petroleum, a regulated substance

(c) in paragraph (c) delete “petroleum” (2nd occurrence) and insert:

resources

(d) in paragraph (d) after “petroleum” insert:

or regulated substance

(e) in paragraph (e) delete “petroleum” and insert:

resources

(2) Delete regulation 62(3).

- (3) In regulation 62(4) delete “3” and insert:

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- (4) In regulation 62(4) in the Penalty delete “Penalty:” and insert:

Penalty for this subregulation:

- (5) In regulation 62(5)(a)(ii)(I):

- (a) delete “petroleum” (1st occurrence) and insert:

resources

- (b) delete “petroleum; or” and insert:

petroleum or regulated substance; or

43. Part 8 Division 4 Subdivision 3 heading amended

In the heading to Part 8 Division 4 Subdivision 3 delete
“**Production**” and insert:

Other

44. Regulations 79A and 79B inserted

At the end of Part 8 Division 4 Subdivision 3 insert:

79A. Report on work commitments other than wells or surveys

An instrument holder commits an offence if the instrument holder —

- (a) in compliance with a condition to which the instrument is subject, conducts any work, other than a well activity or under a survey; and
- (b) does not give the Minister a report detailing the results of that work and the relevance of the observations and interpretations to the evaluation of the petroleum, regulated substance, geothermal energy resource or GHG storage potential of the instrument area —
 - (i) within 12 months after the day on which the work is completed; or
 - (ii) if the Minister authorises the instrument holder to give the report within another period — the other period.

Penalty for this subregulation: a fine of \$7 000.

79B. GHG report from licensee

- (1) In this regulation —

annual GHG accounting report means a report that includes the information listed in Schedule 17 Division 6;

annual GHG injection report means a report that includes the information listed in Schedule 17 Division 4;

monthly GHG accounting report means a report that includes the information listed in Schedule 17 Division 5;

monthly GHG injection report means a report that includes the information listed in Schedule 17 Division 3.

- (2) A GHG licensee commits an offence if the licensee does not give the Minister a monthly GHG injection report or a monthly GHG accounting report for the licence area within the period —
- (a) starting on the last day of the month to which the report relates; and
 - (b) ending 15 days after that day.

Penalty for this subregulation: a fine of \$7 000.

- (3) A GHG licensee commits an offence if the licensee does not give the Minister an annual GHG injection report or an annual GHG accounting report for the licence area within the period —
- (a) starting on the last day of the financial year to which the report relates; and
 - (b) ending 4 months after that day.

Penalty for this subregulation: a fine of \$7 000.

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45. Regulation 80 amended

In regulation 80(1) delete the Table and insert:

Table

Item	Core, cutting or sample	Quantity of core, cutting or sample	Period for giving core, cutting or sample
1.	Ditch cutting	200 grams dry weight per sample interval	Within 12 months after the rig release date.
2.	Full hole conventional core	Whole of the core	Within 12 months after the rig release date.
3.	Gaseous petroleum and regulated substance samples	300 cm ³ at reservoir pressure per test interval	Within 12 months after completion of the test during which the sample was collected.
4.	Fluid petroleum and regulated substance samples	1 L per test interval	Within 12 months after completion of the test during which the sample was collected.
5.	Sidewall core material	All material collected	Within 12 months after the rig release date.
6.	Palynological, paleontological or petrological material	All material produced	Within 12 months after the rig release date.

46. Part 9 heading replaced

Delete the heading to Part 9 and insert:

Part 9 — Release of technical information about petroleum, regulated substances, geothermal energy and greenhouse gas

47. Regulation 82 amended

In regulation 82(3):

- (a) in paragraph (d) delete “48A” and insert:

48A, 48BB

- (b) in paragraph (f) after “petroleum” (1st occurrence) insert:
or regulated substance

- (c) in paragraph (g) delete “50A” and insert:

50AA, 50A, 50B

48. Regulation 90A inserted

After regulation 90 insert:

90A. Release of information from greenhouse gas reports

Despite anything else in this Division, the Minister must publish on the Department’s website in the Western Australian Petroleum and Geothermal

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Information Management System (WAPIMS) database, the following —

- (a) information contained in a monthly GHG accounting report (as defined in regulation 79B(1)) — within 15 days after the Minister receives the report;
- (b) information contained in an annual GHG accounting report (as defined in regulation 79B(1)) — within 30 days after the Minister receives the report;
- (c) information listed in Schedule 17 Division 4 item 14 of the annual GHG injection report (as defined in regulation 79B(1)) — within 3 years after the Minister receives the report.

49. Regulation 91 amended

In regulation 91(2) in the Table delete item 4 and insert:

4.	<p>A survey that collected 3D seismic data as non-exclusive data if either of the following was required to be produced as a condition of the grant of an instrument —</p> <ul style="list-style-type: none">(a) the 3D data;(b) 2D data extracted from the 3D data, contained in a seismic extracted data grid.	<p>For the 3D data — the day 15 years after the acquisition of the data was completed.</p> <p>For the extracted 2D data — the day 5 years after the acquisition of the 3D data was completed.</p>
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5.	<p>A survey that collected 3D seismic data as non-exclusive data if neither of the following was required to be produced as a condition of the grant of an instrument —</p> <ul style="list-style-type: none"> (a) the 3D data; (b) 2D data extracted from the 3D data, contained in a seismic extracted data grid. 	<p>For the 3D data — the day 15 years after the acquisition of the data was completed.</p> <p>For the extracted 2D data — the day 6 years after the acquisition of the 3D data was completed.</p>
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50. Regulation 92 amended

In regulation 92(2)(c) delete “petroleum” and insert:

petroleum, a regulated substance, a greenhouse gas substance

51. Schedule 1 amended

In Schedule 1 item 4 delete “petroleum,” and insert:

petroleum or regulated substances,

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52. Schedule 2 amended

- (1) Delete the heading to Schedule 2 Division 1 and insert:

Division 1 — Required information: petroleum, geothermal or GHG permittee or holder of petroleum, geothermal or GHG drilling reservation

- (2) In Schedule 2 item 2:

- (a) in paragraph (a) delete “evaluation” and insert:

evaluations

- (b) in paragraph (b):

- (i) delete “evaluation” and insert:

evaluations

- (ii) delete “identified.” and insert:

identified or potential GHG storage formations that have been assessed.

- (3) Delete the heading to Schedule 2 Division 2 and insert:

Division 2 — Required information: petroleum retention lessee or geothermal retention lessee

- (4) In Schedule 2 item 7:

- (a) in paragraph (a) delete “evaluation” and insert:

evaluations

- (b) in paragraph (b) delete “evaluation” and insert:
- evaluations
- (5) In Schedule 2 item 11:
- (a) delete “petroleum” (1st occurrence) and insert:
- resources
- (b) in paragraphs (c) and (d) after “petroleum” insert:
- and regulated substances
- (6) Delete Schedule 2 Division 3 and insert:

Division 2A — Required information: GHG retention lessee

Item	Description of information
13.	A description of work and expenditure commitments as detailed in the lease.
14.	For all work, evaluations and studies carried out in relation to the lease — <ul style="list-style-type: none">(a) the total expenditure on the work, evaluations and studies; and(b) the results of the work, evaluations and studies, including details about any potential GHG storage formations that have been assessed.
15.	A list of the reports submitted to the Minister in accordance with these regulations during the year.
16.	Details of the lessee’s plans for further evaluation work, including work that is to be carried out in the lease area.

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Item	Description of information
17.	For the work, evaluations and studies expected to be carried out in relation to the lease during the next year of the lease — <ul style="list-style-type: none">(a) a description of work commitments and expenditure estimates; and(b) a description of the measures taken by the lessee to prepare for the work mentioned in paragraph (a).
18.	Any other information that is required to be included in the annual assessment report by a condition of the lease.

Division 3 — Required information: petroleum licensee or geothermal licensee

Item	Description of information
19.	For all work, evaluations and studies carried out in relation to the licence — <ul style="list-style-type: none">(a) the total expenditure on the work, evaluations and studies; and(b) the results of the work, evaluations and studies, including details about any leads and prospects identified.
20.	Details of any activities the licensee plans to undertake in the licence area in compliance with a condition of the licence.
21.	A list of the reports submitted to the Minister in accordance with these regulations during the year.
22.	Details of the licensee's plans for further evaluation of the licence area, including work that is to be carried out in the licence area and is not covered by item 14.
23.	A production forecast for each producing or potential development project.

Item	Description of information
24.	For a year after the first year of the licence, the following information about each resources pool or geothermal resources area situated in the licence area — <ul style="list-style-type: none">(a) a description of the pool or geothermal resources area;(b) any new information relating to the evaluation of the pool or geothermal resources area;(c) an estimate of the quantity of petroleum and regulated substance in the pool, or geothermal energy resources in the geothermal resources area, at the end of the previous year;(d) an estimate of the quantity of recoverable petroleum and regulated substance in the pool, or recoverable geothermal energy in the geothermal resources area, at the end of the previous year;(e) any new or revised data upon which the estimates in paragraphs (c) and (d) are based, including a report of any study carried out that has resulted in a revised estimate;(f) a table summarising the quantities mentioned in paragraphs (c) and (d) by reference to resources and reserves.
25.	The total amount of petroleum and regulated substances produced or geothermal energy recovered during the year.
26.	The amount of each substance injected into an underground formation during the year.
27.	The amount of each substance flared or vented during the year.
28.	Any other information that is required to be included in accordance with a condition of the licence.

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53. Schedule 3 amended

- (1) Delete Schedule 3 items 1 to 3 and insert:
 1. Evidence and data showing that the field contains petroleum or a regulated substance, including details of the structure, extent and location of discovered resources pools.
 2. Estimates of the volume of petroleum or regulated substances in place and recoverable petroleum or regulated substances, including data supporting the estimates.
 3. A description of the following —
 - (a) the possible resources pools in the field;
 - (b) the applicant's plans (if any) to explore for resources pools;
 - (c) how any resources pools of commercial quantity can be incorporated into the development of the licence area.
- (2) In Schedule 3 item 4(a) delete "petroleum" and insert:

resources
- (3) In Schedule 3 item 5 after "petroleum" insert:

or regulated substances
- (4) In Schedule 3 item 7 delete "from a petroleum" and insert:

or regulated substances from a resources

- (5) In Schedule 3 item 10(a) and (b) delete “petroleum;” and insert:

petroleum or regulated substances;

- (6) In Schedule 3 item 12 delete “petroleum” and insert:

petroleum, regulated substances

- (7) Delete Schedule 3 item 13(b) and (c) and insert:

- (b) any petroleum or regulated substance production by a well that is from more than 1 resources pool;
- (c) any petroleum or regulated substance production from a resources pool that is through more than 1 well.

- (8) In Schedule 3 item 14(d) delete “petroleum;” and insert:

petroleum or regulated substances;

- (9) In Schedule 3 item 15 delete “petroleum.” and insert:

petroleum or regulated substances.

54. Schedule 4 amended

In Schedule 4 item 14 delete “petroleum.” and insert:

petroleum or regulated substance.

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55. Schedule 5 amended

In Schedule 5 item 9 delete “petroleum” and insert:

petroleum, regulated substance

56. Schedule 6 replaced

Delete Schedule 6 and insert:

Schedule 6 — Final well activity data

[r. 73(1)]

Item	Type of data	Standard submission method	Standard formats
1.	Well index sheet	Online or portable hard drive	PDF
2.	If generated, raw data, edited field data and processed data from log runs (any results from measurements while drilling (MWD) and logging while drilling (LWD), wireline data)	Online or portable hard drive	DLIS or LAS with complete header information
3.	Log displays for all generated logs	Online or portable hard drive	PDF or TIFF
4.	If generated, edited field data and processed data for borehole deviation surveys	Online or portable hard drive	DLIS, ASCII, LAS or XLSX with complete header information

Item	Type of data	Standard submission method	Standard formats
5.	If generated, petrophysical, geochemical or other sample analyses	Online or portable hard drive	ASCII or XLSX with complete header information

57. Schedule 7 amended

- (1) In Schedule 7 item 5 after “producing,” insert:

injecting,
- (2) In Schedule 7 item 14 delete “petroleum” and insert:

resources
- (3) In Schedule 7 item 27 delete “petroleum” and insert:

petroleum, regulated substance

58. Schedule 8 replaced

Delete Schedule 8 and insert:

Schedule 8 — Well completion data

[r. 74(1)]

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Item	Type of data	Standard submission method	Standard formats
1.	Well index sheet	Online or portable hard drive	PDF
2.	Raw data, edited field data and processed data from any log runs (any results from measurements while drilling (MWD) and logging while drilling (LWD), wireline data)	Online or portable hard drive	DLIS or LAS with complete header information
3.	Log displays for all log runs	Online or portable hard drive	PDF or TIFF
4.	Mudlogging data	Online or portable hard drive	ASCII or LAS with complete header information
5.	Mudlog displays	Online or portable hard drive	PDF or TIFF
6.	Edited field data and processed data for borehole deviation surveys	Online or portable hard drive	DLIS, ASCII, LAS or XLSX with complete header information
7.	If generated, data from velocity surveys including the following — (a) raw data; (b) processed data; (c) checkshot and time/depth analysis	Online or portable hard drive	DLIS, SEG-Y or ASCII with complete header information

Item	Type of data	Standard submission method	Standard formats
8.	Velocity survey displays	Online or portable hard drive	TIFF, JPEG or PDF
9.	Interpretative log analysis	Online or portable hard drive	DLIS, ASCII, LAS or XLSX with complete header information
10.	Petrophysical, geochemical or other sample analyses	Online or portable hard drive	ASCII or XLSX with complete header information
11.	Composite well log	Online or portable hard drive	TIFF, JPEG or PDF
12.	Photography of the core and sidewall core, in both natural and UV light	Online or portable hard drive	JPEG, PNG or TIFF

59. Schedule 9 amended

(1) In Schedule 9 item 2 after “cost” insert:

and the final cost

(2) In Schedule 9 item 6 after “producing,” insert:

injecting,

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- (3) In Schedule 9 item 7(a) after “the” (1st occurrence) insert:

geodetic datum,

- (4) Delete Schedule 9 item 9 and insert:

9. Either —

- (a) the spud date; or
- (b) if the well is a sidetrack — the kick-off date.

- (5) In Schedule 9 item 11 delete “Kelly bushing” and insert:

rotary table

- (6) In Schedule 9 item 17 delete “horizon.” and insert:

horizon or the storage formation.

- (7) Delete Schedule 9 item 18 and insert:

18. If applicable, the depth of perforation in the resources pool, the geothermal resources area or the storage formation.

- (8) Delete Schedule 9 item 40 and insert:

40. Well test reporting and associated digital data.

- (9) In Schedule 9 item 41 delete “petroleum or geothermal” and insert:

petroleum, regulated substance, geothermal or GHG storage

- (10) In Schedule 9 item 42 delete “petroleum” and insert:

petroleum, regulated substance

60. Schedule 11 replaced

Delete Schedule 11 and insert:

Schedule 11 — Survey acquisition data

[r. 76(1)]

Division 1 — Seismic surveys

Item	Type of data	Standard submission method	Standard formats
1.	Navigation, elevation and bathymetry data	Online or portable hard drive	UKOOA with complete header information
2.	Spatial data for the survey, in the form of —	Online or portable hard drive	For 2D — polyline shapefile
	(a) for a 2-dimensional seismic survey — line ends and bends; or		For 3D — polygon shapefile
	(b) for a 3-dimensional seismic survey — a		

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Item	Type of data	Standard submission method	Standard formats
	polygon outline of the acquisition area		
3.	Seismic field data	Portable hard drive, LTO or 3592 cartridge	SEG-D or SEG-Y with complete header information
4.	Seismic support data, including observers' logs	Online or portable hard drive	PDF or XLSX
5.	If acquired, uphole data	Online or portable hard drive	ASCII

Division 2 — Other surveys

Item	Type of data	Standard submission method	Standard formats
6.	Field data	Online or portable hard drive	ASCII or other industry-recognised standard non-proprietary binary format, with accompanying format description
7.	Field support and navigation data	Online or portable hard drive	ASCII
8.	Spatial data for the survey, in the form of —	Online or portable hard drive	For 2D — polyline shapefile
	(a) for other 2-dimensional		For 3D — polygon shapefile

Item	Type of data	Standard submission method	Standard formats
	surveys — line ends and bends; or (b) for other 3-dimensional surveys — a polygon outline of the acquisition area		

61. Schedule 13 replaced

Delete Schedule 13 and insert:

Schedule 13 — Processed survey data

[r. 77(1)]

Division 1 — 2D seismic surveys

Item	Type of data	Standard submission method	Standard formats
1.	All generated processed data including the following — (a) raw and final stacked data; (b) raw and final migrated data; (c) data generated from any other processing	Online or portable hard drive	SEG-Y with complete header information

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Item	Type of data	Standard submission method	Standard formats
2.	Final processed navigation, elevation and bathymetry data	Online or portable hard drive	UKOOA with complete header information
3.	Shotpoint to common depth point (CDP) relationship	Online or portable hard drive	ASCII
4.	Data for both stacked and migrated velocities, including the following — (a) line number; (b) shotpoint or CDP; (c) time versus root mean square (RMS) pairs	Online or portable hard drive	ASCII or SEG-Y with complete header information

Division 2 — 3D seismic surveys

Item	Type of data	Standard submission method	Standard formats
5.	All generated processed data including the following — (a) raw and final stacked data; (b) raw and final migrated data; (c) data generated from any other processing	Online or portable hard drive	SEG-Y with complete header information

Item	Type of data	Standard submission method	Standard formats
6.	Final processed navigation, elevation and bathymetry data, including final processed (grid) bin coordinates	Online or portable hard drive	UKOOA with complete header information
7.	Final navigation data in the form of the following — (a) final processed (grid) bin coordinates; (b) polygon showing the outline of the full fold area	Online or portable hard drive	Shapefile
8.	Data for both stacked and migrated velocities, including the following — (a) bin number; (b) time versus root mean square (RMS) pairs	Online or portable hard drive	ASCII or SEG-Y with complete header information
9.	2D data subset, if the 3-dimensional survey collected data as non-exclusive data	Online or portable hard drive	SEG-Y with complete header information

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Item	Type of data	Standard submission method	Standard formats
10.	All generated processed data	Online or portable hard drive	ASCII or other industry-recognised standard non-proprietary binary format, with accompanying format description
11.	Georeferenced final processed images	Online or portable hard drive	GeoPDF and GeoTIFF
12.	Polygon showing the outline of the processed area	Online or portable hard drive	Shapefile

62. Schedule 15 replaced

Delete Schedule 15 and insert:

Schedule 15 — Interpretative survey data

[r. 78(1)]

Item	Type of data	Standard submission method	Standard formats
1.	Digital interpretation map displays	Online or portable hard drive	PDF, TIFF, JPEG or other standard picture format

63. Schedule 16 amended

- (1) Delete Schedule 16 item 5(c) and insert:
 - (c) a description of the velocity field used to convert time to depth (including ASCII data) and the basis for the velocity field (for example, wells and seismic surveys used); and
- (2) In Schedule 16 item 6 after “bathymetric” insert:

or elevation

64. Schedule 17 amended

- (1) Delete the heading to Schedule 17 and the reference after it and insert:

**Schedule 17 — Production and GHG injection
reports**

[r. 79(1), 79B(1)]

- (2) In Schedule 17 item 1(f) after “petroleum” insert:

or regulated substances
- (3) In Schedule 17 item 2 after “petroleum” (each occurrence) insert:

or regulated substance

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- (4) At the end of Schedule 17 insert:

Division 3 — Information for monthly GHG injection report

Item	Description of information
5.	For each well in the licence area — <ul style="list-style-type: none">(a) the well's identification name and number; and(b) a summary of all work performed on the well during the month; and(c) the results of any tests conducted during the month; and(d) the well's operational status at the end of the month; and(e) the daily values during the month for pressure and temperature, at both the wellhead and the bottom of the well bore, and the injection rate; and(f) if the well was shut in at any time during the month — the shut-in wellhead pressure and temperature; and(g) the number of days of greenhouse gas injection during the month; and(h) the cumulative quantities of greenhouse gas substance injected, or each other substance produced or injected, as at the end of the month.
6.	For the licence area — <ul style="list-style-type: none">(a) the total quantities of greenhouse gas substance, and each other substance produced or injected, during the month; and(b) the average composition of each greenhouse gas substance injected during the month; and(c) the sources of greenhouse gas substance injected; and(d) the physical and chemical properties and amount of each other substance injected into or extracted from an underground formation during the month as part of any engineering enhancements.

Division 4 — Information for annual GHG injection report

Item	Description of information
7.	For all work, evaluations and studies carried out in relation to the licence — <ul style="list-style-type: none"> (a) the total expenditure on the work, evaluations and studies; and (b) the results of the work, evaluations and studies, including details about any potential GHG storage formations that have been assessed.
8.	Details of any activities the licensee plans to undertake in the licence area in compliance with a condition of the licence.
9.	A list of the reports submitted to the Minister in accordance with these regulations during the year.
10.	Details of the licensee's plans for further evaluation of the licence area, including work that is to be carried out in the licence area and is not covered by item 8.
11.	For a year after the first year of the licence, the following information about each identified GHG storage formation situated in the licence area — <ul style="list-style-type: none"> (a) information about the chemical composition and physical properties of the injected greenhouse gas substance and any incidental GHG-related substances, including isotopic compositions; (b) the amount of each greenhouse gas substance injected; (c) information about the location and direction of movement of the GHG substances injected, including a comparison with the prediction set out in Part A of an approved site plan for that storage formation; (d) the results of maintenance operations and well-bore integrity tests; (e) an estimate of the remaining storage capacity of the formation at the end of the year;

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Item	Description of information
	(f) an estimate of the pressure behaviour within the formation and, wherever available, information on pressure measurements, including the results of pressure transient tests.
12.	The physical and chemical properties and amount of each substance injected into or extracted from an underground formation during the year as part of any engineering enhancements.
13.	The amount of each substance flared or vented during the year.
14.	All monitoring reports and data relevant to an approved site plan available to the licensee at the end of the year.
15.	Any other information that is required to be included in accordance with a condition of the licence.

Division 5 — Information for monthly GHG accounting report

Item	Description of information
16.	A monthly GHG accounting report must contain — <ul style="list-style-type: none">(a) the quantity of greenhouse gas substance put into the system, as measured at —<ul style="list-style-type: none">(i) the source of the greenhouse gas substance; or(ii) if the greenhouse gas substance becomes the responsibility of the licensee at a point other than its source, that point;and(b) the quantity of greenhouse gas substance measured at the last measuring point before injection; and(c) the average composition of each greenhouse gas substance injected; and

Item	Description of information
	<ul style="list-style-type: none"> (d) the maximum and minimum injection rates during the month; and (e) the quantity of the greenhouse gas substance lost, and emissions of additional greenhouse gases generated, in each of the following processes — <ul style="list-style-type: none"> (i) compression; (ii) transportation; (iii) injection; and (f) an explanation of how each of the quantities mentioned in paragraph (e) was worked out; and (g) the quantity of greenhouse gas substance lost from the well bore; and (h) the quantity of greenhouse gas substance lost from the storage formation; and (i) the quantity of greenhouse gases emitted from the discharge of produced formation fluids.

Division 6 — Information for annual GHG accounting report

Item	Description of information
17.	<p>An annual GHG accounting report must contain —</p> <ul style="list-style-type: none"> (a) the quantity of greenhouse gas substance injected into the storage formation during the year; and (b) the cumulative quantity of greenhouse gas substance stored as at the end of the year; and (c) the quantity of greenhouse gas substance lost, and emissions of additional greenhouse gases generated, in each of the following processes — <ul style="list-style-type: none"> (i) compression;

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Item	Description of information
	(ii) transportation;
	(iii) injection;
	and
(d)	a summary of the measurements made under the monitoring and verification plan contained in the approved site plan, including a summary of the interpretation of those measurements; and
(e)	the quantity of greenhouse gas substance lost from the well bore; and
(f)	the quantity of greenhouse gas substance lost from the storage formation; and
(g)	an explanation of how losses of the greenhouse gas substance were estimated or measured; and
(h)	an assessment of the accuracy of the measurement or estimation of the quantities of the greenhouse gas substance.

**Part 7 — *Petroleum Pipelines (Environment)*
Regulations 2012 amended**

65. Regulations amended

This Part amends the *Petroleum Pipelines (Environment) Regulations 2012*.

66. Regulation 1 amended

In regulation 1 after “*Petroleum*” insert:

and Greenhouse Gas

67. Regulation 4 amended

In regulation 4 in the definition of *pipeline activity*:

(a) in paragraph (g) delete “pipeline;” and insert:

pipeline; and

(b) after paragraph (g) insert:

(h) transport of greenhouse gas by pipeline; and

(i) care and maintenance of land, waters and infrastructure in relation to a pipeline; and

(j) rehabilitation of land or waters in relation to a pipeline;

68. Regulation 18 amended

(1) In regulation 18(1) in the Penalty delete “Penalty:” and insert:

Penalty for this subregulation:

- (2) In regulation 18(2) in the Penalty delete “Penalty:” and insert:

Penalty for this subregulation:

Part 8 — *Petroleum Pipelines Regulations 1970* amended

69. Regulations amended

This Part amends the *Petroleum Pipelines Regulations 1970*.

70. Regulation 1 replaced

Delete regulation 1 and insert:

1. Citation

These regulations are the *Petroleum and Greenhouse Gas Pipelines Regulations 1970*.

71. Regulations 2 and 3 inserted

After regulation 1 insert:

2. Terms used

In these regulations —

additive means a substance that may be safely added to petroleum;

document, in relation to service and lodgment, includes —

- (a) an application for a licence made under section 8; and
- (b) a security to which section 13 applies; and
- (c) the instrument used for an application for a licence variation made under section 15; and
- (d) the instrument used to give a licensee a direction under section 41.

3. Additives to petroleum

For the purpose of paragraph (b)(ii) of the definition of *petroleum* in section 4(1) of the Act, a prescribed additive is —

- (a) 1 that has a functional purpose for the conveyance of petroleum in a pipeline such as an odorant or an anti-corrosive; or
- (b) hydrogen blended into petroleum for the purpose of conveyance in a pipeline and of a quantity that is approved by the Minister.

72. Regulation 4C amended

In regulation 4C delete “prescribed” and insert:

approved

73. Regulations 5 and 6 inserted

After regulation 4D insert:

5. Service of documents

- (1) A pipeline licensee must provide an email address for the service of documents by electronic means.
- (2) If the Minister is required to serve a document on the licensee, the Minister may serve the document as an email attachment to the email address provided by the licensee.
- (3) A document served by email on a licensee is taken to have been served —
 - (a) if it is sent before 4.30 pm on a working day — on that day; or

(b) otherwise — on the next working day.

6. Lodging documents through Department’s website

- (1) A document that is required under the Act to be lodged may be lodged as an electronic version by means of the Department’s website.
- (2) A document that is lodged electronically after 4.30 pm on a working day and before 8.30 am on the next working day is taken to have been lodged at 8.30 am on that next working day.
- (3) The Minister may at any time require a person who has lodged a document electronically to lodge it in hard copy form at the Department’s customer service counter at Mineral House, 100 Plain Street, East Perth WA 6004.

74. Regulation 23 amended

- (1) In regulation 23(1) after “petroleum” (each occurrence) insert:

or a greenhouse gas substance

- (2) In regulation 23(2):

- (a) delete the passage that begins with “Where” and ends with “as to — ” and insert:

Where the pipeline is repaired after the escape of the petroleum or a greenhouse gas substance or ignition of petroleum or a greenhouse gas substance from the pipeline, the licensee must immediately submit a written report to the Minister giving full information as to —

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- (b) in paragraph (a) delete “petroleum; and” and insert:

petroleum or a greenhouse gas substance; and

- (c) in paragraph (b) after “petroleum” insert:

or a greenhouse gas substance

- (d) in paragraph (c) delete “petroleum; and” and insert:

petroleum or a greenhouse gas substance; and

- (e) in paragraph (d) after “petroleum” insert:

or a greenhouse gas substance

75. Regulations 27 to 32 inserted

After regulation 26 insert:

27. Requirement to provide annual pipeline performance report

- (1) A licensee must give the Minister a report (an *annual pipeline performance report*) for each year of a term of the licence within —
- (a) 30 days after the day on which the year of the term ends; or
- (b) if the Minister authorises the licensee to give the annual pipeline performance report within another period — the other period.

Penalty for this subregulation: a fine of \$10 000.

- (2) An annual pipeline performance report must contain information that demonstrates the performance of the pipeline licensee in maintaining the integrity of the pipeline and may include any other information that the licensee believes is relevant to the title.

28. Reports may be combined

A licensee with more than 1 licence may combine the annual pipeline performance reports into a single document with the written agreement of the Minister.

29. Pipeline performance report for part of year

- (1) This regulation applies if —
 - (a) a licence ceases to be in force (whether the licence has expired or been cancelled, revoked, surrendered or terminated); and
 - (b) the term of the licence was not a whole number of years.
- (2) The Minister may, by written notice, require the licence holder to give a pipeline performance report to the Minister for the period at the end of the term that was not a year of the term.
- (3) The notice must specify the date by which the report must be given, which date must be at least 30 days after the day on which the notice is given.
- (4) A licence holder must comply with a notice given to the licence holder under subregulation (2).
Penalty for this subregulation: a fine of \$10 000.

30. Terms used

In this regulation and regulations 31 and 32 —
commencement day means the day on which section 27 comes into operation;

transitional period means the period of 12 months beginning on commencement day.

31. Existing pipeline activities

- (1) In this regulation —

existing pipeline activity means a pipeline activity undertaken by a licence holder before commencement day that continues on or after that day.

- (2) Regulation 27(1) does not apply in relation to an existing pipeline activity until — in the case where, before the end of the transitional period, the licence holder undertaking the pipeline activity is due to file its first annual pipeline performance report — the day after the end of the transitional period.

32. Terminated pipeline activity

- (1) In this regulation —

terminated pipeline activity means a pipeline activity for which the licence has expired or been cancelled, revoked, surrendered or terminated.

- (2) Regulation 29(2) does not apply in relation to a terminated pipeline activity until — in the case where, before the end of the transitional period, the licence holder has received written notice from the Minister requiring the licence holder to give an assessment report to the Minister — the day after the end of the transitional period.

Part 9 — *Petroleum (Submerged Lands) (Environment) Regulations 2012* amended

76. Regulations amended

This Part amends the *Petroleum (Submerged Lands) (Environment) Regulations 2012*.

77. Regulation 1 amended

In regulation 1 after “*Petroleum*” insert:

and Greenhouse Gas Storage

78. Regulation 3 amended

In regulation 3:

(a) delete “activity” (1st occurrence) and insert:

activity, or greenhouse gas activity,

(b) in paragraph (b)(i) delete “petroleum”.

79. Regulation 4 amended

(1) In regulation 4 delete “regulations, unless the contrary intention appears —” and insert:

regulations —

(2) In regulation 4 delete the definitions of:

instrument holder

operator

produced formation water

recordable incident

reportable incident

- (3) In regulation 4 insert in alphabetical order:

activity means a petroleum activity or a greenhouse gas activity;

greenhouse gas activity —

- (a) means any operations or works carried out in the State —
 - (i) under a greenhouse gas instrument; or
 - (ii) relating to a GHG operation that may have an environmental impact;and
- (b) includes all of the following —
 - (i) seismic or other surveys;
 - (ii) drilling;
 - (iii) construction and installation of a facility;
 - (iv) operation of a facility;
 - (v) modification of a facility;
 - (vi) decommissioning, dismantling or removing a facility;
 - (vii) construction and installation of a pipeline;
 - (viii) operation of a pipeline;
 - (ix) modification of a pipeline;
 - (x) decommissioning, dismantling or removing a pipeline;
 - (xi) processing or transporting greenhouse gas;

- (xii) injection or storage of greenhouse gas in a well, reservoir or subsurface formation;
- (xiii) care and maintenance of submerged land, waters or infrastructure;
- (xiv) rehabilitation of submerged land or waters;

greenhouse gas instrument means any of the following —

- (a) a GHG exploration permit;
- (b) a GHG retention lease;
- (c) a GHG injection licence;
- (d) a GHG access authority;
- (e) a GHG special prospecting authority;
- (f) any other authority or consent granted by instrument under the Act for the carrying out of operations or works in the State relating to a GHG operation;

instrument holder, for an activity, means the registered holder of a petroleum instrument or a greenhouse gas instrument for the activity, and includes a permittee, lessee, licensee, pipeline licensee, infrastructure licensee or registered holder of an access authority or special prospecting authority for the activity;

operator, in relation to an activity, means —

- (a) if there is a person recorded by the Minister as the operator of the activity under regulation 41 — that person; or

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- (b) in any other case —
 - (i) if there is a petroleum instrument or greenhouse gas instrument for the activity — the person responsible to the instrument holder for the overall management and operation of the activity (whether or not the activity has commenced); or
 - (ii) if there is no petroleum instrument or greenhouse gas instrument for the activity — the person carrying out the activity;

produced formation water means natural aqueous fluid recovered from a natural reservoir or resources pool in association with petroleum or a regulated substance;

recordable incident, for an operator of an activity, means an incident arising from the activity that —

- (a) breaches an environmental performance objective or environmental performance standard in the environment plan for the activity; and
- (b) is not a reportable incident;

reportable incident, for an operator of an activity, means —

- (a) an incident that is classified as a reportable incident under the environment plan for the activity; or
- (b) an incident arising from the activity if —
 - (i) the incident has caused, or has the potential to cause, an adverse environmental impact; and

- (ii) under the environmental risk assessment process described in the environment plan for the activity, that environmental impact is categorised as moderate or more serious than moderate;
- (4) In regulation 4 in the definition of ***environment plan***:
 - (a) delete “a petroleum” and insert:

an
 - (b) delete “petroleum” (2nd occurrence).
- (5) In regulation 4 in the definition of ***environmental impact*** delete “a petroleum” and insert:

an
- (6) In regulation 4 in the definition of ***petroleum activity***:
 - (a) in paragraph (b) delete “petroleum” and insert:

petroleum, or regulated substance,
 - (b) in paragraph (n) delete “petroleum;” and insert:

petroleum; and
 - (c) after paragraph (n) insert:
 - (o) care and maintenance of submerged land, waters or infrastructure; and
 - (p) rehabilitation of submerged land or waters;

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80. Regulation 15 amended

In regulation 15(8) after “concentration of petroleum” insert:

or regulated substance

81. Regulation 18 amended

In regulation 18(1)(a) and (b) delete “petroleum”.

82. Various references to “petroleum activity” amended

In the provisions listed in the Table:

- (a) delete “a petroleum activity” (each occurrence) and insert:

an activity

- (b) delete “the petroleum activity” (each occurrence) and insert:

the activity

- (c) delete “a proposed petroleum activity” and insert:

a proposed activity

Table

r. 5	r. 6
r. 7(1), (2) and (3)	r. 8(1)

r. 9(1) and (2)	r. 11(1)(a), (b) and (c), (4)(a), (b) and (c), (5)(c), (6)(b) and (8)(a), (b), (c) and (d)
r. 12(2)(b) and (7)	r. 13
r. 14(1), (2)(a), (3)(a), (4)(a), (5)(a) and (6)(a) and (b)	r. 15(1), (3)(a), (5), (8), (9)(a) and (b) and (10)(a)
r. 16(a)	r. 17(1)(c) and (2)(a)
r. 18(1) and (2)	r. 19(1)
r. 20(1)	r. 23(1) and (3)(b)
r. 24	r. 25(1)
r. 26(1) and (6)(a)	r. 27(1) and (2)
r. 28(1)	r. 29(1)
r. 30(1)	r. 31(1) and (2)(a)
r. 32(2) and (6)(a)	r. 33(1) and (2)
r. 34(1) def. of <i>reporting period</i>	r. 34(2), (3), (4), (5)(b), (6) and (7)
r. 35	r. 37(1), (2), (3), (4) and (5)
r. 38(1), (3), (4) and (5)	r. 39(1)
r. 40(1)	r. 41

r. 83

83. Various penalties amended

In the provisions listed in the Table:

- (a) delete “Penalty” and insert:

Penalty for this subregulation

- (b) delete “for an offence under subregulation (10)” and insert:

for this subregulation

Table

r. 7(1)	r. 8(1)
r. 11(7) and (10)	r. 18(1) and (2)
r. 19(7) and (8)	r. 20(1)
r. 28(1)	r. 29(1)
r. 30(1)	r. 31(1)
r. 32(2)	r. 33(1)
r. 34(2), (4), (6) and (7)	r. 37(1), (3) and (4)
r. 38(1), (3), (4) and (5)	

Note: The headings to the amended regulations listed in the Table are to read as set out in the Table:

Table

Amended regulation	Regulation heading
r. 5	References to activity

Amended regulation	Regulation heading
r. 6	Approved environment plan required for activity
r. 7	Activity must comply with approved environment plan
r. 8	Activity must not continue if new or increased environmental impact or environmental risk identified
r. 18	Revision because of a change, or proposed change, of circumstances or activity

**Part 10 — *Petroleum (Submerged Lands) (Pipelines)*
Regulations 2022 amended**

84. Regulations amended

This Part amends the *Petroleum (Submerged Lands) (Pipelines) Regulations 2022*.

85. Regulation 1 amended

In regulation 1 after “*Petroleum*” insert:

and Greenhouse Gas Storage

86. Regulations 2A and 2B inserted

After regulation 2 insert:

2A. Term used: additive

In these regulations —

additive means a substance that may be safely added to petroleum.

2B. Additives to petroleum

For the purpose of paragraph (b)(ii) of the definition of ***petroleum*** in section 4(1) of the Act, a prescribed additive is —

- (a) 1 that has a functional purpose for the conveyance of petroleum in a pipeline such as an odorant or an anti-corrosive; or
- (b) hydrogen blended into petroleum for the purpose of conveyance in a pipeline and of a quantity that is approved by the Minister.

87. Part 2 Division 2A inserted

At the end of Part 2 insert:

Division 2A — Pipeline performance report

10A. Terms used

In this Division —

commencement day means the day on which this Division comes into operation;

existing pipeline licence means a licence to construct or operate a pipeline that was granted by the Minister before commencement day that continues on or after that day;

terminated pipeline licence means a licence to construct or operate a pipeline that has expired or been cancelled, revoked, surrendered or terminated;

transitional period means the period of 12 months beginning on commencement day.

10B. Requirement to provide annual pipeline performance report

- (1) A pipeline licensee must give the Minister a report (an *annual pipeline performance report*) for each year of a term of the pipeline licence within —
 - (a) 30 days after the day on which the year of the term ends; or
 - (b) if the Minister authorises the pipeline licensee to give the annual pipeline performance report within another period — the other period.

Penalty for this subregulation: a fine of \$10 000.

- (2) An annual pipeline performance report must contain information that demonstrates the performance of the

pipeline licensee in maintaining the integrity of the pipeline and may include any other information that the licensee believes is relevant to the pipeline licence.

10C. Reports may be combined

A pipeline licensee with more than 1 pipeline licence may combine the annual pipeline performance reports into a single document with the written agreement of the Minister.

10D. Pipeline performance report for part of year

- (1) This regulation applies if —
 - (a) a pipeline licence ceases to be in force (whether it has expired or been cancelled, revoked, surrendered or terminated); and
 - (b) the term of the pipeline licence was not a whole number of years.
- (2) The Minister may, by written notice, require the pipeline licensee to give a pipeline performance report to the Minister for the period at the end of the term that was not a year of the term.
- (3) The notice must specify the date by which the report must be given, which date must be at least 30 days after the day on which the notice is given.
- (4) A pipeline licensee must comply with a notice given to the licensee under subregulation (2).

Penalty for this subregulation: a fine of \$10 000.

10E. Existing pipeline licence

Regulation 10B(1) does not apply in relation to an existing pipeline licence until — in the case where, before the end of the transitional period, the pipeline licensee is due to file its first annual pipeline

performance report — the day after the end of the transitional period.

10F. Terminated pipeline licence

Regulation 10D(2) does not apply in relation to a terminated pipeline licence until — in the case where, before the end of the transitional period, the pipeline licensee has received a written notice from the Minister requiring the licensee to give an assessment report to the Minister — the day after the end of the transitional period.

**Part 11 — *Petroleum (Submerged Lands) Registration
Fees Regulations 1990* amended**

88. Regulations amended

This Part amends the *Petroleum (Submerged Lands)
Registration Fees Regulations 1990*.

89. Regulation 1 replaced

Delete regulation 1 and insert:

1. Citation

These regulations are the *Petroleum and Greenhouse
Gas Storage (Submerged Lands) Registration Fees
Regulations 1990*.

**Part 12 — *Petroleum (Submerged Lands)*
Regulations 1990 amended**

90. Regulations amended

This Part amends the *Petroleum (Submerged Lands) Regulations 1990*.

91. Regulation 1 amended

Delete regulation 1 and insert:

1. Citation

These regulations are the *Petroleum and Greenhouse Gas Storage (Submerged Lands) Regulations 1990*.

92. Regulation 2A amended

In regulation 2A insert in alphabetical order:

additive means a substance that may be safely added to petroleum;

document, in relation to service and lodgment, includes —

- (a) an application for a permit, lease or licence; and
- (b) an application for an extension, a variation, a renewal or withdrawal; and
- (c) a nomination for the purpose of section 36 of the Act; and
- (d) an instrument of consent and an instrument in writing; and
- (e) an instrument of transfer under section 78 of the Act; and

- (f) an instrument evidencing a dealing under section 81 of the Act;

93. Regulation 2B inserted

After regulation 2A insert:

2B. Additives to petroleum

For the purpose of paragraph (b)(ii) of the definition of *petroleum* in section 4(1) of the Act, a prescribed additive is one that has a functional purpose for the recovery of petroleum or a regulated substance.

94. Regulation 4 amended

In regulation 4 delete “prescribed” and insert:

approved

95. Regulation 5 amended

In regulation 5(1)(f), (g) and (h) after “*Petroleum*” insert:

and Greenhouse Gas Storage

96. Regulations 6 and 7 inserted

After regulation 5 insert:

6. Service of documents

- (1) A registered holder must provide an email address for the service of documents by electronic means.

- (2) If the Minister is required to serve a document on the registered holder, the Minister may serve the document as an email attachment to the email address provided by the registered holder.
- (3) A document served by email on a registered holder is taken to have been served —
 - (a) if it is sent before 4.30 pm on a working day — on that day; or
 - (b) otherwise — on the next working day.

7. Lodging documents through Department's website

- (1) A document that is required under the Act to be lodged may be lodged as an electronic version by means of the Department's website.
- (2) A document that is lodged electronically after 4.30 pm on a working day and before 8.30 am on the next working day is taken to have been lodged at 8.30 am on that next working day.
- (3) The Minister may at any time require a person who has lodged a document electronically to lodge it in hard copy form at the Department's customer service counter at Mineral House, 100 Plain Street, East Perth WA 6004.

97. Schedule 1 replaced

Delete Schedule 1 and insert:

Schedule 1 — Prescribed fees

[r. 3(1)]

Column 1 Item	Column 2 Provision of Act	Column 3 Amount of prescribed fee (\$)
1.	s. 21(1)(f)	8 740.00
2.	s. 24(1)(a)	8 320.00
3.	s. 30(2)(c)	8 740.00
4.	s. 30(4)(b)	8 740.00
5.	s. 38A(2)(e)	8 320.00
6.	s. 38A(2A)(d)	8 320.00
7.	s. 38BB(2)(d)	8 320.00
8.	s. 38CA(2)(d)	8 320.00
9.	s. 38F(2)(d)	8 320.00
10.	s. 38F(2A)(c)	8 320.00
11.	s. 41(1)(e)	8 950.00
12.	s. 48(1)(a)	8 740.00
13.	s. 51(2)(e)	8 740.00
14.	s. 54(2)(d)	8 320.00
15.	s. 60B(2)(d)	8 320.00
16.	s. 60J(2)(d)	7 550.00
17.	s. 64(1)(f)	8 740.00
18.	s. 71(2)(e)	8 740.00

Column 1 Item	Column 2 Provision of Act	Column 3 Amount of prescribed fee (\$)
19.	s. 74AQ(1)(g)	8 250.00
20.	s. 79(2)	167.00
21.	s. 79(3)(b)	156.00
22.	s. 86(1)	149.00
23.	s. 87(3)	142.00
24.	s. 111(2)(d)	8 740.00
25.	s. 141	233.00

98. Schedule 2 amended

- (1) Delete the heading to Schedule 2 and the reference after it and insert:

**Schedule 2 — Form of instrument of transfer of title
 under *Petroleum and Greenhouse Gas Storage
 (Submerged Lands) Act 1982 s. 78***

[r. 4]

- (2) In Schedule 2 after “*Petroleum*” (each occurrence) insert:

and Greenhouse Gas Storage

(3) In Schedule 2 after “*Petroleum*” insert:

and Greenhouse Gas Storage

Consultation Draft

Part 13 — *Petroleum (Submerged Lands) (Resource Management and Administration) Regulations 2015* amended

99. Regulations amended

This Part amends the *Petroleum (Submerged Lands) (Resource Management and Administration) Regulations 2015*.

100. Regulation 1 amended

In regulation 1 after “*Petroleum*” insert:

and Greenhouse Gas Storage

101. Regulation 3 amended

Delete regulation 3(a) to (c) and insert:

- (a) to ensure that operations relating to the exploration for petroleum, regulated substances or greenhouse gas storage formations, or the recovery of petroleum or regulated substances or injection operations relating to greenhouse gas substances, in the State are —
 - (i) carried out in a proper and workmanlike manner and, in the case of operations relating to the exploration for or recovery of petroleum, in accordance with good oil-field practice; and
 - (ii) compatible with the optimum long-term recovery of petroleum and regulated substances; and
 - (iii) carried out in a way that reduces the risk of aquifer contamination or, in the case of injection operations relating to

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greenhouse gas substances, aquifer contamination outside the storage formation;

and

- (b) to ensure that the Minister is informed, in a timely and consistent manner, of —
 - (i) the exploration for petroleum, regulated substances or greenhouse gas storage formations; and
 - (ii) the discovery of petroleum or regulated substances; and
 - (iii) the appraisal of discoveries; and
 - (iv) development and production operations relating to the recovery of petroleum or regulated substances; and
 - (v) injection operations relating to greenhouse gas substances; and
 - (vi) the results of operations referred to in subparagraph (iv) or (v);
- and
- (c) to provide a framework for encouraging the adequate collection and retention and timely dissemination of petroleum, regulated substances and greenhouse gas data; and

102. Regulation 4 amended

- (1) In regulation 4 delete “In these regulations, unless the contrary intention appears —” and insert:

(1) In these regulations —

- (2) In regulation 4 delete the definition of *survey*.

(3) In regulation 4 insert in alphabetical order:

engineering enhancement —

- (a) means an action taken by an individual to facilitate storage of a greenhouse gas substance in an identified GHG storage formation; and
- (b) includes —
 - (i) remediating an existing well from a previous operation that penetrates the storage formation; and
 - (ii) managing formation pressure; and
 - (iii) increasing the injectivity potential;

survey means a geochemical survey, a geological survey, or a geophysical survey, the data from which is intended for use in —

- (a) the exploration for —
 - (i) petroleum; or
 - (ii) regulated substances; or
 - (iii) potential GHG storage formations; or
 - (iv) sites for the injection of greenhouse gas;or
- (b) the appraisal of a discovery of —
 - (i) petroleum; or
 - (ii) regulated substances; or
 - (iii) potential GHG storage formations; or
 - (iv) sites for the injection of greenhouse gas;or
- (c) the recovery of petroleum or regulated substances; or
- (d) the injection and permanent storage of greenhouse gas substances;

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survey applicant means an instrument holder, or an applicant for an instrument, who makes an application under regulation 6(1);

- (4) In regulation 4 in the definition of **integrity** delete paragraph (b) and insert:

- (b) is able to contain reservoir fluid, petroleum, a greenhouse gas substance or any other substance; and

- (5) In regulation 4 in the definition of **well integrity hazard** after paragraph (b)(ii) insert:

- (iia) a GHG storage formation; or

- (6) At the end of regulation 4 insert:

- (2) For the purposes of paragraph (b) of the definition of **regulated substance** in section 4(1) of the Act, the following are regulated substances —

- (a) hydrogen;
(b) helium.

103. Regulation 6 amended

- (1) Delete regulation 6(1) and insert:

- (1) A survey applicant may apply to the Minister for approval to undertake a survey.

- (2) In regulation 6(2)(b):
- (a) in subparagraph (ix) delete “instrument holder;” and insert:

survey applicant;
 - (b) in subparagraph (xi) delete “instrument holder” (each occurrence) and insert:

survey applicant

104. Regulation 8 amended

Delete regulation 8(1) and insert:

- (1) The Minister may ask a survey applicant to provide further written information about the proposed survey.

105. Regulation 9 amended

In regulation 9(3) delete “instrument holder” and insert:

survey applicant

106. Regulation 10 amended

After regulation 10(2)(a)(iii)(II) insert:

- (IIA) a GHG storage formation; or

r. 107

107. Regulation 11 amended

After regulation 11(2)(a)(iii)(II) insert:

(IIA) a GHG storage formation; or

108. Regulation 16 amended

Delete regulation 16(1)(c)(ii) and insert:

(ii) if the activity relates to the exploration for or the recovery of petroleum or a related substance, in a manner that is consistent with good oil-field practice;

109. Regulation 34 amended

In regulation 34 delete “section 34 or 38J” and insert:

section 34(1)(a), 38J(1)(a) or 53A(1)(a)

110. Regulation 36 amended

In regulation 36(1) in the definition of *discovery assessment report*:

(a) in paragraph (b) delete “petroleum” and insert:

resources

(b) in paragraphs (c) and (e) after “petroleum” insert:

or regulated substance

- (c) in paragraphs (f) and (g) delete “in the petroleum” and insert:

or regulated substance in the resources

111. Regulation 37 amended

- (1) In regulation 37(1) in the Penalty delete “Penalty:” and insert:

Penalty for this subregulation:

- (2) Delete regulation 37(2)(b) and (c) and insert:

- (b) in the case of a petroleum retention lessee — the information listed in Schedule 2 Division 2;
or
(c) in the case of a GHG retention lessee — the information listed in Schedule 2 Division 2A;
or
(d) in the case of a petroleum licensee — the information listed in Schedule 2 Division 3.

112. Part 6 heading amended

In the heading to Part 6 after “**plans**” insert:

for petroleum or regulated substance recovery

r. 113

113. Regulation 41 amended

In regulation 41:

- (a) delete “A licensee” and insert:

A petroleum licensee

- (b) delete “from a petroleum” and insert:

or a regulated substance from a resources

- (c) in paragraph (b) delete “petroleum,” and insert:

petroleum or regulated substance,

- (d) in paragraph (b)(i) delete “petroleum” and insert:

resources

- (e) in paragraph (b)(ii) after “petroleum” insert:

or a regulated substance

114. Regulation 47 amended

In regulation 47(1)(b)(ii) delete “petroleum.” and insert:

petroleum or regulated substance.

115. Regulation 50 amended

- (1) In regulation 50(1) in the definition of *major change*:
- (a) after “petroleum” (1st occurrence) insert:

or a regulated substance
 - (b) in paragraphs (a) and (b) delete “petroleum” and insert:

resources
 - (c) in paragraph (d) after “petroleum” insert:

or a regulated substance
- (2) In regulation 50(2) after “petroleum” insert:

or a regulated substance

116. Part 6 Division 5 heading amended

In the heading to Part 6 Division 5 after “petroleum” insert:

or regulated substance

117. Regulation 58 amended

- (1) In regulation 58(1):
- (a) after “petroleum” (1st occurrence) insert:

or a regulated substance

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(b) delete “petroleum” (2nd occurrence) and insert:

resources

(c) delete “petroleum pool.” and insert:

resources pool.

(2) In regulation 58(2)(d) delete “petroleum; and” and insert:

petroleum or a regulated substance; and

Note: The heading to amended regulation 58 is to read:

Application

118. Regulation 60 amended

In regulation 60(a)(i) delete “petroleum; and” and insert:

petroleum or a regulated substance; and

119. Part 7 heading amended

In the heading to Part 7 after “**Notification of**” insert:

petroleum or regulated substance recovery

120. Regulation 62 amended

(1) In regulation 62(1) in the definition of *significant event*:

(a) in paragraph (a) delete “petroleum;” and insert:

petroleum or a regulated substance;

(b) in paragraph (b) after “petroleum” insert:

or a regulated substance

(c) in paragraph (c) after “petroleum” (1st occurrence) insert:

or a regulated substance

(d) in paragraph (c) delete “petroleum” (2nd occurrence) and insert:

resources

(e) in paragraph (d) after “petroleum” insert:

or a regulated substance

(f) in paragraph (e) delete “petroleum” and insert:

resources

(2) Delete regulation 62(3).

(3) In regulation 62(4) delete “3” and insert:

7

(4) In regulation 62(4) in the Penalty delete “Penalty:” and insert:

Penalty for this subregulation:

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- (5) In regulation 62(5)(a)(ii):
 - (a) delete “petroleum” (1st occurrence) and insert:

resources
 - (b) delete “petroleum;” and insert:

petroleum or regulated substance;

121. Part 8 Division 4 Subdivision 3 heading amended

In the heading to Part 8 Division 4 Subdivision 3 delete “**Production**” and insert:

Other

122. Regulation 78 amended

- (1) In regulation 78(1) in the definition of *monthly production report* delete “Schedule 16.” and insert:

Schedule 16 Division 1.

- (2) Delete regulation 78(2) and insert:
 - (2) A petroleum licensee commits an offence if the petroleum licensee does not give the Minister a monthly production report for a petroleum licence area within the period —
 - (a) starting on the last day of the month to which the report relates; and
 - (b) ending 15 days after that day.

Note: The heading to amended regulation 78 is to read:

Monthly production report from petroleum licensee

123. Regulations 78A and 78B inserted

At the end of Part 8 Division 4 Subdivision 3 insert:

78A. Report on work commitments other than wells or surveys

- (1) An instrument holder commits an offence if the instrument holder —
- (a) in compliance with a condition to which the instrument is subject, conducts any work, other than a well activity or under a survey; and
 - (b) does not give the Minister a report detailing the results of the work and the relevance of the observations and interpretations to the evaluation of the petroleum, regulated substance or GHG storage potential of the instrument area —
 - (i) within 12 months after the day on which the work is completed; or
 - (ii) if the Minister authorises the instrument holder to give the report within another period — the other period.

Penalty for this subsection: a fine of \$7 000.

78B. GHG report from licensee

- (1) In this regulation —
- annual GHG accounting report*** means a report that includes the information listed in Schedule 16 Division 5;

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annual GHG injection report means a report that includes the information listed in Schedule 16 Division 3;

monthly GHG accounting report means a report that includes the information listed in Schedule 16 Division 4;

monthly GHG injection report means a report that includes the information listed in Schedule 16 Division 2.

- (2) A GHG licensee commits an offence if the licensee does not give the Minister a monthly GHG injection report or monthly GHG accounting report for the licence area within the period —
- (a) starting on the last day of the month to which the report relates; and
 - (b) ending 15 days after that day.
- Penalty for this subregulation: a fine of \$7 000.
- (3) A GHG licensee commits an offence if the licensee does not give the Minister an annual GHG injection report or annual GHG accounting report for the licence area within the period —
- (a) starting on the last day of the financial year to which the report relates; and
 - (b) ending on the day 4 months after that day.

Penalty for this subregulation: a fine of \$7 000.

124. Regulation 79 amended

In regulation 79(1) delete the Table and insert:

Table

Item	Core, cutting or sample	Quantity of core, cutting or sample	Period for giving core, cutting or sample
1.	Ditch cutting	200 grams dry weight per sample interval	Within 12 months after the rig release date.
2.	Full hole conventional core	Whole of the core	Within 12 months after the rig release date.
3.	Gaseous petroleum and regulated substance samples	300 cm ³ at reservoir pressure per test interval	Within 12 months after completion of the test during which the sample was collected.
4.	Fluid petroleum and regulated substance samples	1 L per test interval	Within 12 months after completion of the test during which the sample was collected.
5.	Sidewall core material	All material collected	Within 12 months after the rig release date.
6.	Palynological, paleontological or petrological material	All material produced	Within 12 months after the rig release date.

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125. Part 9 heading replaced

Delete the heading to Part 9 and insert:

Part 9 — Release of technical information about petroleum, regulated substances and greenhouse gas

126. Regulation 81 amended

In regulation 81(3):

- (a) in paragraph (c) delete “38A” and insert:

38A, 38BB

- (b) in paragraph (e) after “petroleum” insert:

or regulated substance

- (c) in paragraph (f) delete “40A” and insert:

40AA, 40A, 40B

127. Regulation 89A inserted

After regulation 89 insert:

89A. Release of information from greenhouse gas reports

Despite anything else in this Division, the Minister must publish on the Department’s website in the Western Australian Petroleum and Geothermal

Information Management System (WAPIMS) database, the following —

- (a) information contained in a monthly GHG accounting report (as defined in regulation 78B(1)) — within 15 days after the Minister receives the report;
- (b) information contained in an annual GHG accounting report (as defined in regulation 78B(1)) — within 30 days after the Minister receives the report;
- (c) information listed in Schedule 16 Division 3 item 12 of the annual GHG injection report (as defined in regulation 78B(1)) — within 3 years after the Minister receives the report.

128. Regulation 90 amended

In regulation 90(2) in the Table delete item 4 and insert:

4.	<p>A survey that collected 3D seismic data as non-exclusive data if either of the following was required to be produced as a condition of the grant of an instrument —</p> <ul style="list-style-type: none"> (a) the 3D data; (b) 2D data extracted from the 3D data, contained in a seismic extracted data grid. 	<p>For the 3D data — the day 15 years after the acquisition of the data was completed.</p> <p>For the extracted 2D data — the day 5 years after the acquisition of the 3D data was completed.</p>
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5.	A survey that collected 3D seismic data as non-exclusive data if neither of the following was required to be produced as a condition of the grant of an instrument — (a) the 3D data; (b) 2D data extracted from the 3D data, contained in a seismic extracted data grid.	For the 3D data — the day 15 years after the acquisition of the data was completed. For the extracted 2D data — the day 6 years after the acquisition of the 3D data was completed.
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129. Regulation 91 amended

In regulation 91(2)(c) delete “petroleum,” and insert:

petroleum, a regulated substance or a greenhouse gas substance,

130. Schedule 1 amended

In Schedule 1 item 4 delete “petroleum,” and insert:

petroleum or regulated substances,

131. Schedule 2 amended

- (1) Delete the heading to Schedule 2 Division 1 and insert:

Division 1 — Required information: permittee

- (2) In Schedule 2 item 2:

- (a) in paragraph (a) delete “evaluation” and insert:

evaluations

- (b) in paragraph (b) delete “evaluation” and insert:

evaluations

- (c) in paragraph (b) delete “identified.” and insert:

or potential GHG storage formations that have been assessed.

- (3) Delete the heading to Schedule 2 Division 2 and insert:

**Division 2 — Required information: petroleum retention
lessee**

- (4) In Schedule 2 item 7:

- (a) in paragraph (a) delete “evaluation” and insert:

evaluations

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- (b) in paragraph (b) delete “evaluation” and insert:

evaluations

- (5) In Schedule 2 item 11:

- (a) delete “petroleum” (1st occurrence) and insert:

resources

- (b) in paragraphs (c) and (d) after “petroleum” insert:

and regulated substances

- (6) Delete Schedule 2 Division 3 and insert:

Division 2A — Required information: GHG retention lessee

Item	Description of information
12A.	A description of work and expenditure commitments as detailed in the lease.
12B.	For all work, evaluations and studies carried out in relation to the lease — (a) the total expenditure on the work, evaluations and studies; and (b) the results of the work, evaluations and studies, including details about any potential GHG storage formations that have been assessed.
12C.	A list of the reports submitted to the Minister in accordance with these regulations during the year.
12D.	Details of the lessee’s plans for further evaluation work, including work that is to be carried out in the lease area.

Item	Description of information
12E.	For the work, evaluations and studies expected to be carried out in relation to the lease during the next year of the lease — <ul style="list-style-type: none"> (a) a description of work commitments and expenditure estimates; and (b) a description of the measures taken by the lessee to prepare for the work mentioned in paragraph (a).
12F.	Any other information that is required to be included in the annual assessment report by a condition of the lease.

Division 3 — Required information: petroleum licensee

Item	Description of information
13.	For all work, evaluations and studies carried out in relation to the licence — <ul style="list-style-type: none"> (a) the total expenditure on the work, evaluations and studies; and (b) the results of the work, evaluations and studies, including details about any leads and prospects identified.
14.	Details of any activities the licensee plans to undertake in the licence area in compliance with a condition of the licence.
15.	A list of the reports submitted to the Minister in accordance with these regulations during the year.
16.	Details of the licensee's plans for further evaluation of the licence area, including work that is to be carried out in the licence area and is not covered by item 14.
17.	A production forecast for each producing or potential development project.

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Item	Description of information
18.	For a year after the first year of the licence, the following information about each resources pool situated in the licence area — <ul style="list-style-type: none">(a) a description of the pool;(b) any new information relating to the evaluation of the pool;(c) an estimate of the quantity of petroleum and regulated substance in the pool at the end of the previous year;(d) an estimate of the quantity of recoverable petroleum and regulated substance in the pool at the end of the previous year;(e) any new or revised data upon which the estimates in paragraphs (c) and (d) are based, including a report of any study carried out that has resulted in a revised estimate;(f) a table summarising the quantities mentioned in paragraphs (c) and (d) by reference to resources and reserves.
19.	The total amount of petroleum and regulated substances produced during the year.
20.	The amount of each substance injected into an underground formation during the year.
21.	The amount of each substance flared or vented during the year.
22.	Any other information that is required to be included in accordance with a condition of the licence.

132. Schedule 3 amended

- (1) Delete Schedule 3 items 1 to 3 and insert:
1. Evidence and data showing that the field contains petroleum or a regulated substance, including details of the structure, extent and location of discovered resources pools.
 2. Estimates of the volume of petroleum or regulated substances in place and recoverable petroleum or regulated substances, including data supporting the estimates.
 3. A description of the following —
 - (a) the possible resources pools in the field;
 - (b) the applicant's plans (if any) to explore for resources pools;
 - (c) how any resources pools of commercial quantity can be incorporated into the development of the licence area.
- (2) In Schedule 3 item 4(a) delete "petroleum" and insert:
- resources
- (3) In Schedule 3 item 5 after "petroleum" insert:
- or regulated substances
- (4) In Schedule 3 item 7 delete "from a petroleum" and insert:
- or regulated substances from a resources

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- (5) In Schedule 3 item 10(a) and (b) delete “petroleum;” and insert:

petroleum or regulated substances;

- (6) In Schedule 3 item 12 delete “petroleum” and insert:

petroleum, regulated substances

- (7) Delete Schedule 3 item 13(b) and (c) and insert:

- (b) any petroleum or regulated substance production by a well that is from more than 1 resources pool;
- (c) any petroleum or regulated substance production that is from a resources pool that is through more than 1 well.

- (8) In Schedule 3 item 14(d) delete “petroleum;” and insert:

petroleum or regulated substances;

- (9) In Schedule 3 item 15 delete “petroleum.” and insert:

petroleum or regulated substances.

133. Schedule 4 amended

In Schedule 4 item 9 delete “petroleum.” and insert:

petroleum or regulated substance.

134. Schedule 5 replaced

Delete Schedule 5 and insert:

Schedule 5 — Final well activity data

[r. 72(1)]			
Item	Type of data	Standard submission method	Standard formats
1.	Well index sheet	Online or portable hard drive	PDF
2.	If generated, raw data, edited field data and processed data from log runs (any results from measurements while drilling (MWD) and logging while drilling (LWD), wireline data)	Online or portable hard drive	DLIS or LAS with complete header information
3.	Log displays for all generated logs	Online or portable hard drive	PDF or TIFF
4.	If generated, edited field data and processed data for borehole deviation surveys	Online or portable hard drive	DLIS, ASCII, LAS or XLSX with complete header information
5.	If generated, petrophysical, geochemical or other sample analyses	Online or portable hard drive	ASCII or XLSX with complete header information

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135. Schedule 6 amended

- (1) In Schedule 6 item 5 after “producing,” insert:

injecting,

- (2) In Schedule 6 item 14 delete “petroleum” and insert:

resources

- (3) In Schedule 6 item 27 delete “petroleum.” and insert:

petroleum or regulated substance.

136. Schedule 7 replaced

Delete Schedule 7 and insert:

Schedule 7 — Well completion data

[r. 73(1)]

Item	Type of data	Standard submission method	Standard formats
1.	Well index sheet	Online or portable hard drive	PDF
2.	Raw data, edited field data and processed data from all log runs (any results from measurements while drilling (MWD) and	Online or portable hard drive	DLIS or LAS with complete header information

Item	Type of data	Standard submission method	Standard formats
	logging while drilling (LWD), wireline data)		
3.	Log displays for all log runs	Online or portable hard drive	PDF or TIFF
4.	Mudlogging data	Online or portable hard drive	ASCII or LAS with complete header information
5.	Mudlog displays	Online or portable hard drive	PDF or TIFF
6.	Edited field data and processed data for borehole deviation surveys	Online or portable hard drive	DLIS, ASCII, LAS or XLS with complete header information
7.	If generated, data from velocity surveys including the following — (a) raw data; (b) processed data; (c) checkshot and time/depth analysis	Online or portable hard drive	DLIS, SEG-Y or ASCII with complete header information
8.	Velocity survey displays	Online or portable hard drive	TIFF, JPEG or PDF
9.	Interpretative log analysis	Online or portable hard drive	DLIS, ASCII, LAS or XLSX with complete header information

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Item	Type of data	Standard submission method	Standard formats
10.	Petrophysical, geochemical or other sample analyses	Online or portable hard drive	ASCII or XLSX with complete header information
11.	Composite well log	Online or portable hard drive	TIFF, JPEG or PDF
12.	Photography of the core and sidewall core, in both natural and UV light	Online or portable hard drive	JPEG, PNG or TIFF

137. Schedule 8 amended

- (1) In Schedule 8 item 2 after “cost” insert:

and the final cost
- (2) In Schedule 8 item 6 after “producing,” insert:

injecting,
- (3) In Schedule 8 item 7(a) after “the” (1st occurrence) insert:

geodetic datum,

(4) Delete Schedule 8 item 9 and insert:

9. Either —

- (a) the spud date; or
- (b) if the well is a sidetrack — the kick-off date.

(5) In Schedule 8 item 11 delete “Kelly bushing” and insert:

rotary table

(6) In Schedule 8 item 17 delete “horizon.” and insert:

horizon or the storage formation.

(7) Delete Schedule 8 item 18 and insert:

18. If applicable, the depth of perforation in the resources pool or the storage formation.

(8) Delete Schedule 8 item 40 and insert:

40. Well test reporting and associated digital data.

(9) Delete Schedule 8 item 41 and insert:

41. If the well is an exploration well — the relevance of the observations and interpretations to the evaluation of the petroleum, regulated substance or GHG storage potential of the instrument area.

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- (10) In Schedule 8 item 42 delete “petroleum.” and insert:

petroleum or regulated substance.

138. Schedule 10 replaced

Delete Schedule 10 and insert:

Schedule 10 — Survey acquisition data

[r. 75(1)]

Division 1 — Seismic surveys

Item	Type of data	Standard submission method	Standard formats
1.	Navigation, elevation and bathymetry data	Online or portable hard drive	UKOOA with complete header information
2.	Spatial data for the survey, in the form of — (a) for a 2-dimensional seismic survey — line ends and bends; or (b) for a 3-dimensional seismic survey — a polygon outline of the acquisition area.	Online or portable hard drive	For 2D — polyline shapefile For 3D — polygon shapefile
3.	Seismic field data	Portable hard drive, LTO or 3592 cartridge	SEG-D or SEG-Y with complete header information

Item	Type of data	Standard submission method	Standard formats
4.	Seismic support data, including observers' logs	Online or portable hard drive	PDF or XLSX

Division 2 — Other surveys

Item	Type of data	Standard submission method	Standard formats
5.	Field data	Online or portable hard drive	ASCII or other industry-recognised standard non-proprietary binary format, with accompanying format description
6.	Field support and navigation data	Online or portable hard drive	ASCII
7.	Spatial data for the survey, in the form of — (a) for other 2-dimensional surveys — line ends and bends; or (b) for other 3-dimensional surveys — a polygon outline of the acquisition area.	Online or portable hard drive	For 2D — polyline shapefile For 3D — polygon shapefile

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139. Schedule 12 replaced

Delete Schedule 12 and insert:

Schedule 12 — Processed survey data

[r. 76(1)]

Division 1 — 2D seismic surveys

Item	Type of data	Standard submission method	Standard formats
1.	All generated processed data including the following — (a) raw and final stacked data; (b) raw and final migrated data; (c) data generated from any other processing	Online or portable hard drive	SEG-Y with complete header information
2.	Final processed navigation, elevation and bathymetry data	Online or portable hard drive	UKOOA with complete header information
3.	Shotpoint to common depth point (CDP) relationship	Online or portable hard drive	ASCII
4.	Data for both stacked and migrated velocities, including the following — (a) line number; (b) shotpoint or CDP;	Online or portable hard drive	ASCII or SEG-Y with complete header information

Item	Type of data	Standard submission method	Standard formats
	(c) time versus root mean square (RMS) pairs		

Division 2 — 3D seismic surveys

Item	Type of data	Standard submission method	Standard formats
5.	All generated processed data including the following — (a) raw and final stacked data; (b) raw and final migrated data; (c) data generated from any other processing	Online or portable hard drive	SEG-Y with complete header information
6.	Final processed navigation, elevation and bathymetry data, including final processed (grid) bin coordinates	Online or portable hard drive	UKOOA with complete header information
7.	Final navigation data in the form of the following — (a) final processed (grid) bin coordinates;	Online or portable hard drive	Shapefile

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Item	Type of data	Standard submission method	Standard formats
	(b) polygon showing the outline of the full fold area		
8.	Data for both stacked and migrated velocities, including the following — (a) bin number; (b) time versus root mean square (RMS) pairs	Online or portable hard drive	ASCII or SEG-Y with complete header information
9.	2D data subset, if the 3-dimensional survey collected data as non-exclusive data	Online or portable hard drive	SEG-Y with complete header information

Division 3 — Other surveys

Item	Type of data	Standard submission method	Standard formats
10.	All generated processed data	Online or portable hard drive	ASCII or other industry-recognised standard non-proprietary binary format, with accompanying format description
11.	Georeferenced final processed images	Online or portable hard drive	GeoPDF and GeoTIFF

Item	Type of data	Standard submission method	Standard formats
12.	Polygon showing the outline of the processed area	Online or portable hard drive	Shapefile

140. Schedule 14 replaced

Delete Schedule 14 and insert:

Schedule 14 — Interpretative survey data

[r. 77(1)]

Item	Type of data	Standard submission method	Standard formats
1.	Digital interpretation map displays	Online or portable hard drive	PDF, TIFF, JPEG or other standard picture format

141. Schedule 15 amended

Delete Schedule 15 item 5(c) and insert:

- (c) a description of the velocity field used to convert time to depth (including ASCII data) and the basis for the velocity field (for example, wells and seismic surveys used); and

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142. Schedule 16 heading amended

Delete the heading to Schedule 16 and the reference after it and insert:

Schedule 16 — Production and GHG injection reports

[r. 78(1), 78B(1)]

143. Schedule 16 Division 1 heading inserted

- (1) At the beginning of Schedule 16 insert:

Division 1 — Information for monthly production report from petroleum licensee

- (2) In Schedule 16 item 1(f) after “petroleum” insert:

or regulated substances

144. Schedule 16 amended

- (1) Delete Schedule 16 item 2 and insert:

2. For the licence area —

- (a) the total quantities of each of the following for the month —
 - (i) liquid and gaseous petroleum or regulated substance produced;
 - (ii) liquid and gaseous petroleum or regulated substance used;
 - (iii) liquid and gaseous petroleum or regulated substance injected;
 - (iv) gaseous petroleum or regulated substance flared or vented;
 - (v) liquid petroleum or regulated substance stored;
 - (vi) liquid and gaseous petroleum or regulated substance delivered from the area;
 - (vii) water produced;
 - (viii) water injected;
 - (b) the cumulative quantities of water and of liquid and gaseous petroleum and regulated substances produced or injected as at the end of the month.
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- (2) At the end of Schedule 16 insert:

Division 2 — Information for monthly GHG injection report

Item	Description of information
3.	For each well in the licence area — <ul style="list-style-type: none">(a) the well's identification name and number; and(b) a summary of all work that has been performed on the well during the month; and(c) the results of any tests conducted during the month; and(d) the well's operational status at the end of the month; and(e) the daily values during the month for pressure and temperature, at both the wellhead and the bottom of the well bore, and the injection rate; and(f) if the well was shut in at any time during the month — the shut-in wellhead pressure and temperature; and(g) the number of days of greenhouse gas injection during the month; and(h) the cumulative quantities of greenhouse gas substance injected, or each other substance produced or injected, as at the end of the month.
4.	For the licence area — <ul style="list-style-type: none">(a) the total quantities of greenhouse gas substance injected, and each other substance produced or injected, during the month; and(b) the average composition of each greenhouse gas substance injected during the month; and(c) the sources of greenhouse gas substance injected; and(d) the physical and chemical properties and amount of each other substance injected into or extracted from an underground formation during the month as part of any engineering enhancements.

Division 3 — Information for annual GHG injection report

Item	Description of information
5.	For all work, evaluations and studies carried out in relation to the licence — <ul style="list-style-type: none">(a) the total expenditure on the work, evaluations and studies; and(b) the results of the work, evaluations and studies, including details about any potential GHG storage formations that have been assessed.
6.	Details of any activities the licensee plans to undertake in the licence area in compliance with a condition of the licence.
7.	A list of reports submitted to the Minister in accordance with these regulations during the year.
8.	Details of the licensee's plans for further evaluation of the licence area, including work that is to be carried out in the licence area and is not covered by item 6.

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Item	Description of information
9.	For a year after the first year of the licence, the following information about each identified GHG storage formation situated in the licence area — <ul style="list-style-type: none">(a) information about the chemical composition and physical properties of the injected greenhouse gas substance and any incidental GHG-related substances, including isotopic compositions;(b) the amount of each greenhouse gas substance injected;(c) information about the location and direction of movement of the GHG substances injected, including a comparison with the prediction set out in Part A of an approved site plan for that storage formation;(d) the results of maintenance operations and well-bore integrity tests;(e) an estimate of the remaining storage capacity of the formation at the end of the year;(f) an estimate of the pressure behaviour within the formation and, wherever available, information on pressure measurements, including the results of pressure transient tests.
10.	The physical and chemical properties and amount of each substance injected into or extracted from an underground formation during the year as part of any engineering enhancements.
11.	The amount of each substance flared or vented during the year.
12.	All monitoring reports and data relevant to an approved site plan available to the licensee at the end of the year.
13.	Any other information that is required to be included in accordance with a condition of the licence.

Division 4 — Information for monthly GHG accounting report

Item	Description of information
14.	<p>A monthly GHG accounting report must contain —</p> <ul style="list-style-type: none">(a) the quantity of greenhouse gas substance that has been put into the system, as measured at —<ul style="list-style-type: none">(i) the source of the greenhouse gas substance; or(ii) if the greenhouse gas substance becomes the responsibility of the licensee at a point other than its source, that point;and(b) the quantity of greenhouse gas substance measured at the last measuring point before injection; and(c) the average composition of each greenhouse gas substance injected; and(d) the maximum and minimum injection rates during the month; and(e) the quantity of the greenhouse gas substance lost, and emissions of additional greenhouse gases generated, in each of the following processes —<ul style="list-style-type: none">(i) compression;(ii) transportation;(iii) injection;and

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Item	Description of information
(f)	an explanation of how each of the quantities mentioned in paragraph (e) was worked out; and
(g)	the quantity of greenhouse gas substance lost from the well bore; and
(h)	the quantity of greenhouse gas substance lost from the storage formation; and
(i)	the quantity of greenhouse gases emitted from the discharge of produced formation fluids.

Division 5 — Information for annual GHG accounting report

Item	Description of information
15.	<p>An annual GHG accounting report must contain —</p> <ul style="list-style-type: none">(a) the quantity of greenhouse gas substance injected into the storage formation during the year; and(b) the cumulative quantity of greenhouse gas substance that has been stored as at the end of the year; and(c) the quantity of greenhouse gas substance lost, and emissions of additional greenhouse gases generated, in each of the following processes —<ul style="list-style-type: none">(i) compression;(ii) transportation;(iii) injection; <p>and</p> <ul style="list-style-type: none">(d) a summary of the measurements made under the monitoring and verification plan contained in the approved site plan, including a summary of the interpretation of those measurements; and(e) the quantity of greenhouse gas substance lost from the well bore; and(f) the quantity of greenhouse gas substance lost from the storage formation; and(g) an explanation of how losses of the greenhouse gas substance were estimated or measured; and(h) an assessment of the accuracy of the measurement or estimation of the quantities of the greenhouse gas substance.

Clerk of the Executive Council