Permitted activities: Post-activity report

Form 4 of Schedule 5 of the Exclusive Economic Zone and Continental Shelf (Environmental Effects – Permitted Activities) Regulations 2013

How to use this form: This form should be completed by people who have carried out a permitted activity (other than seismic surveying) in accordance with regulation 5, 6 or 8 of the Exclusive Economic Zone and Continental Shelf (Environmental Effects – Permitted Activities) Regulations 2013 (PA Regulations 2013). This form fulfils the post-activity report requirements of Schedule 4 of the PA Regulations 2013.

Timeframe: You must provide this form to the Environmental Protection Authority (EPA) within 60 working days of completing the activity.

Note: Items marked in italics are not compulsory; however, including this information will help the EPA process the form.

This completed form, once received and processed by the EPA, will be posted on the EPA website.

Submitting in hard copy: If you wish to provide the completed form in hard copy, post it to Environmental Protection Authority, Private Bag 63002, Wellington 6140 or fax it to +64 4 914 0433.

Submitting electronically: If you wish to provide the completed form electronically, email it to permitted.compliance@epa.govt.nz.

Any form submitted electronically should be attached to an email that sets out:

- the details of the person undertaking the permitted activity (the operator)
- the name of the person supplying the completed form
- a statement that the person is authorised to supply the form on behalf of the operator.

Note: The EPA has an 8 MB limit on electronic files submitted by email.

You can find and download all forms prescribed by the PA Regulations 2013, as well as suggested templates for providing other information, on our website at www.epa.govt.nz or request them from us by contacting:

Environmental Protection Authority,
Private Bag 63002, Wellington 6140
Email permitted.compliance@epa.govt.nz

Phone +64 4 916 2426
Fax +64 4 914 0433
Operation name:
Name used by operator to reference the activity described in this form: Kaikoura Turbidites

Activity code:
Code given to you by the EPA after submitting the pre-activity notice: NIWPA34

Details of the person undertaking the permitted activity

| Name of company, organisation or person: | National Institute of Water and Atmospheric Research (NIWA) |
| Contact person: | [Redacted] |
| Phone number: | [Redacted] |
| Mobile number: | [Redacted] |
| Fax number: | [Redacted] |
| Physical address: | [Redacted] |
| Postcode: | [Redacted] |
| Postal address (if different): | [Redacted] |
| Postcode: | [Redacted] |
| Email address: | [Redacted] |

Description of permitted activity

Type of activity:

| Marine scientific research | ☒ Alteration, extension or removal of a permitted marine structure | ☐ |
| Prospecting | ☐ Discharge of sediments from iron sand prospecting and exploration | ☐ |
| Exploration | ☐ Incidental discharge of sediments from phosphate nodule or placer gold prospecting and exploration | ☐ |
| Placement or removal of submarine cables | ☐ Discharge of sediments from seafloor massive sulphide prospecting and exploration | ☐ |

Period during which activity was undertaken:

Location of the permitted activity

Co-ordinates of area where the activity was undertaken:
(Provide four sets of co-ordinates in latitude and longitude or submit a shape file or KML/KMZ file.)

| Set 1 | 38° 11.1 S, 177° 41.8 E |
| Set 2 | 39° 40.4 S, 179° 05.8 E |
| Set 3 | 44° 27.6 S, 175° 35.4 E |
Set 4

43° 11.1 S, 172° 25.5 E

☐ I have attached a shape or KML/KMZ file

**Map**

*(showing position of activity relative to the New Zealand coastline)*

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**Details of the environment of the area where the activity was undertaken**

**Describe the environment:**

This region of offshore New Zealand has been the focus of a large number of seafloor mapping surveys and consequently NIWA has access to wide coverage of multibeam echosounder data which results in high resolution bathymetry and backscatter reflectivity (i.e. the depth and nature of the seafloor). In this region, a gently sloping shelf that extends from the coast to ~150 m water depth surrounds the New Zealand landmass. Deeper waters occur in a trough (Hikurangi Trough) that lies between the New Zealand landmass and Chatham Rise. The southern boundary (Chatham Rise slope) of the Hikurangi Trough is gently sloping with a smooth morphology, while the north western boundary is the continental slope offshore eastern New Zealand. The east coast slope off North Island and Marlborough is terraced, with numerous muddy basins separated by fault-uplifted ridges, and is traversed by numerous canyons and gully systems. The generally flat floor (muddy sediment plain) of Hikurangi Trough reaches almost 3,500 m water depth and is incised by the Hikurangi Channel, which meanders down the floor of the trough.

There are over 2,700 locations (stations) for which there are biological records of seafloor fauna in this general region. Three types of sensitive marine habitat are known to be present in this region: cold seep chemoautotrophic communities, stony coral thickets or reefs and sea pen populations. However, all of these communities occur within seafloor habitat (hard grounds or canyon heads) which are not suitable or targeted for this coring survey. Sediment sampling during this survey is designed to generally target the muddy flat topography of slope basins, the Hikurangi Trough floor and channel, as well as the mid to lower reaches of submarine canyon and gully systems, all of which are well defined by the extensive multibeam coverage.
Sea floor substrates that we encountered during the coring invariably included poorly consolidated muds and sands. No sensitive environments were encountered during coring.

Describe any sensitive environment that was encountered in the area where the activity was undertaken:

No sensitive environments were encountered during this activity.
Environmental footprint of the activity

| Estimate of the volume of material removed: | 0.67 m³ |
| Estimate of the areas of seabed affected by each component of, or sample taken as part of, the activity (m²): | 1.2 m² |

Details of measures taken to avoid, mitigate or remedy adverse effects on the sensitive environment

Did you implement the contingency plan submitted to the EPA?

☐ Yes ☒ No

Explain: This was not necessary as no sensitive environments were encountered

Provide details of, and the reasons for, the measures taken to avoid, mitigate or remedy the effects of the activity:

NA

18/7/2017

Signature of authorised contact person

Name:

Title:

Note: A signature is not required for electronic (email) forms.