

*This form is to be used for disturbance of contaminated sites, including land disturbance, the discharge of hazardous waste to water, air or into or onto land, and the deposit of hazardous waste into or onto land.

(For Office Use Only)

Consent No.: _____

Job No: _____

PLEASE READ THIS PAGE BEFORE COMPLETING THE APPLICATION FORM

Proposals accompanying applications for land use consent to disturb a contaminated site may be assessed in accordance with the Ministry for the Environment "Contaminated Land Management Guidelines", if they are relevant to the activity for which consent is sought. There are 5 volumes in this series:

- Volume 1 – Reporting on contaminated sites in New Zealand, October 2003;
- Volume 2 - Hierarchy and application in New Zealand of Environmental Guideline Values, November 2003;
- Volume 3 - Risk screening system, February 2004;
- Volume 4 - Classification and information management protocols, June 2004; and
- Volume 5 - Site investigation and analysis of soils, February 2004.

Otago Regional Council ("Council") strongly recommends that a consulting engineer, environmental scientist or appropriate technical specialist experienced in contaminated site work or remediation is engaged to assess appropriate methods for any work undertaken, to consider both environmental and human health and safety issues associated with such work, and appropriate remediation strategies for the site, to assist with this application for a land use consent.

Completing this Form and Additional Information

In order for any consent application to be processed efficiently in the minimum time and at minimum cost, it is critical that as much relevant information as possible is included with the application.

This application form, when properly completed, may provide an adequate "Assessment of Effects" where the adverse effects of a proposal are not significant. However this can only be determined on application. **Where an application is significantly incomplete, Council may decide not to accept the application for processing.**

Details of information required in an Assessment of Effects is included in the Fourth Schedule of the Resource Management Act 1991 printed on the back of Form 1 – Resource Consent Application. The extent of detail required should be relative to the scale and significance of the potential adverse effects the activity may have on the receiving environment.

Once an initial assessment has been made of your application, Council may request further information in accordance with Section 92 of the Resource Management Act 1991.

PART A: Reason for Application

1 Please give a brief the history of the contaminated site (*i.e. why is the site contaminated?*
Include dates, site owners, site uses): _____

2 What is affected by contamination at the site?:

- (a) soil
- (b) groundwater
- (c) surface water
- (d) other (*give detail*) _____

3 What is the nature of contamination at the site?:

- (a) heavy metals (*give detail*) _____
- (b) hydrocarbon products (*give detail*) _____
- (c) polychlorinated biphenols
- (d) pesticide/herbicide (*give detail*) _____
- (e) solvents (*give detail*) _____
- (f) landfill / leachate
- (g) gasworks waste
- (h) other (*give detail*) _____

4 What is the purpose of disturbing the contaminated site?:

- (a) Site Remediation
- (b) Site Development/Redevelopment
- (c) Other Purpose (*give detail*) _____

5 Will the disturbance of land at the contaminated site result in the discharge of contaminants (e.g. dust, odour, gas) to air? Yes No

6 Will the disturbance of land at the contaminated site result in the discharge of contaminants to water? Yes No

7 Subsequent to the proposed site works, will contaminants in soil or water remain at concentrations that may pose a risk to human or environmental health (*i.e. will consent be required for the ongoing discharge of contaminants to land or water*)?

Yes No

PART B: Location of Contaminated Site

8 Contaminated Site Property Details:

(a) Name of owner(s) _____

(b) Address/Location _____

(c) Legal Description(s) (as shown on Certificate of Title)

Lot _____ DP _____ Sec _____

Survey District (SD) _____

Other (specify) _____

Council will obtain a Certificate of Title to confirm details, if necessary.

(d) Total Property Area _____ hectares

9 Map reference of the mid point of the contaminated site in NZTM 2000 (New Zealand Transverse Mercator):

NZTM 2000: E _____ N _____

10 Provide a plan showing the location and layout of the contaminated site – please clearly mark on the following:

- (a) Site boundaries;
- (b) Site features, including as appropriate (but not limited to) buildings, roads, fences, ground surfaces (e.g. concrete, asphalt, gravel, grass), topography, water bodies, surface water drainage and groundwater bores;
- (c) An arrow indicating the direction of groundwater flow;
- (d) The location of any soil samples collected to date;
- (e) The location of any surface water samples collected to date;
- (f) Any waterbodies (including streams, drains and water races) within 100 metres of the site;
- (g) All dwellings or buildings within 100 metres of the site;
- (h) A north symbol; and
- (i) A scale.

_____ **Site Plan Attached** _____ Yes

PART C: Contaminated Site Assessment

Please answer ALL questions as appropriate. If the information sought is unknown, then please write "unknown" in the space provided.

11 Has the site been assessed in accordance with the Ministry for the Environment "Contaminated Land Management Guidelines", volumes 1 -5 (as appropriate)?

Yes No

If yes, have you included with this application, a:

Preliminary site inspection report? Yes No

Detailed site investigation report? Yes No

Site remedial action plan? Yes No

If no, why not: _____

12 Have previous investigations been undertaken at the site?

Yes (please go to question 13)

No (please go to question 14)

13 Detail of previous investigations:

(a) What was the date of the investigation(s)? _____

(b) Who undertook the investigation(s)? _____

(c) What was the purpose of the investigation(s)? _____

(d) Were any resource consents obtained to allow the investigation(s) to be undertaken?

Yes No

i. From which authority were consents obtained? _____

ii. Please list relevant consent numbers: _____

(e) Please summarise the findings of the investigation(s)? *(note: a summary only. Detailed information is sought below)* _____

(f) Was a report produced as a result of the investigation(s)? Yes No

i. Please give the title, date and author of any report produced: _____

ii. Does Otago Regional Council already have a copy of these reports?

Yes No

iii. If not, these reports may contain relevant information not given in the assessment of environmental effects with this application, therefore please attach a copy with this application. If no copy is to be supplied, please explain why not: _____

14 **Describe the geology of the site and general area:** _____

15 **Site Stability**

Has an assessment of the site stability been undertaken? Yes No

If Yes, please attach a copy of the stability report: _____ *Stability Report Attached*

If No, why not? _____

16 **Soil Profile**

(a) Please identify the method of determining the soil profile:

- (i) Test Pit Maximum depth _____m No. of Test Pits _____
- (ii) Bore Hole Maximum depth _____m No. of Bore Holes _____
- (iii) Other _____

(b) Describe the typical soil profile(s) at the site:

Depth Range (m)	Soil Type

17 **Soil Contamination**

(a) Please give detail of any physiochemical soil analyses undertaken. Include summary tables, graphs or laboratory analytical results as appropriate.

_____ *Soil Analytical Results Attached*

(b) At what depth(s) does soil contamination occur? _____

(c) What is the spatial distribution of soil contamination at the site? *(please show on a site layout plan)* _____ *Site Plan Attached*

18 **Groundwater Properties**

(a) What is the depth to groundwater at the site? _____m

(b) What is the direction of groundwater flow beneath the site? _____

(c) What is the estimated permeability of the aquifer? _____m/s

(d) What is the source of this groundwater information (e.g. estimate, site bore)? _____

19 Groundwater Contamination

(a) Has groundwater from beneath the site been sampled and analysed?

Yes No

(b) If yes, please give detail of any analyses undertaken. Include summary tables, graphs or laboratory analytical results as appropriate.

_____ *Groundwater Analytical Results Attached*

(c) What is the spatial distribution of groundwater contamination at the site? (*please show on a site layout plan*) _____ *Site Plan Attached*

20 Surface Water Properties

(a) Are surface water bodies present within a 500 metre radius of the site (including lakes, rivers, creeks, water races or drains) Yes No

(b) If yes, please provide the following detail for each watercourse present:

Name (if known) _____

Description _____

Distance from contaminated site? _____ metres

Direction from contaminated site? _____ (*north, north-east, etc.*)

Name (if known) _____

Description _____

Distance from contaminated site? _____ metres

Direction from contaminated site? _____ (*north, north-east, etc.*)

21 Surface Water Contamination

(a) Has surface water been sampled and analysed?

Yes No

(b) If yes, please give detail of any analyses undertaken. Include summary tables, graphs or laboratory analytical results as appropriate.

_____ *Surface water Analytical Results Attached*

(c) Within a reasonable distance downgradient (500 metres) or in the vicinity of the contaminated site are there any:

- | | Yes | No |
|---|--------------------------|--------------------------|
| (i) Water abstractions? | <input type="checkbox"/> | <input type="checkbox"/> |
| (ii) Obvious signs of fish, eels, insect life, aquatic plants, etc? | <input type="checkbox"/> | <input type="checkbox"/> |
| (iii) Wetlands (e.g., swamp areas)? | <input type="checkbox"/> | <input type="checkbox"/> |

- (iv) Recreational activities carried out (e.g., swimming, fishing, kayaking)?
- (v) Areas of particular aesthetic or scientific value (e.g., scenic waterfall, rapids, archaeological sites)?
- (vi) Areas or aspects of significance to Iwi

If you have answered "Yes" to any of (i) to (vi) above, please mark these onto the site map describe what effects the discharge may have and the steps you propose to take to avoid or mitigate these:

PART D: Description of the Proposed Activity

22 Please provide an overview of what do you propose to do at the site, outlining your reasons for the work, and how the work will be undertaken (if appropriate please show the area of land that is to be disturbed on the site plan):

23 What is the proposed commencement date of the work? _____

24 What is the proposed completion date of the work? _____

25 Who will be undertaking the work? _____

26 What are the proposed hours and days of work? _____

PART E: Assessment of Environmental Effects

27 What are the health and environmental risks associated with this work, and how will these be mitigated? Please include comment on the following factors (as appropriate):

- (a) Management of excavations and exposure of contaminated soils;
- (b) Stockpiling of contaminated soils;
- (c) Disposal of contaminated soils;
- (d) Stormwater control/diversion; and
- (e) Dust, odour and other airborne emissions.

28 If the disturbance of the contaminated site will result in a discharge of contaminants to air, in the vicinity of the discharge are there any: Yes No

- (a) residential developments?
- (b) production land (e.g. crops, dairy farming)?
- (c) recreational activities (e.g. parks, sports fields)?
- (d) areas of aesthetic or scientific value?
- (e) areas or aspects of significance to iwi?
- (f) commercial activities (e.g. office blocks)?

If you have answered yes to any of the above, describe what effects the discharge to air may have and the steps you propose to mitigate the effects: _____

29 How will public safety be maintained during the work? _____

30 What are the applicable environmental guidelines for assessing the level(s) of contamination at the site? _____

31 What is the proposed end use of the site? _____

PART F: Alternatives

32 What alternatives were considered for the contaminated site disturbance _____

33 Explain why the proposed contaminated site disturbance is the best practicable option? _____

PART G: Monitoring and Maintenance

34 What are the expected levels of contamination at the site subsequent to the site works?

35 If the site is planned to be partially or fully remediated, is a Site Validation Plan proposed (as recommended by the Ministry for the Environment “Contaminated Land Management Guidelines”, volume 1)?

Yes No

If yes, what is the planned date for completion of the plan?: _____

If not, please explain why: _____

36 Is an Ongoing Monitoring and Management Plan proposed (as recommended by the Ministry for the Environment “Contaminated Land Management Guidelines”, volume 1)?

Yes No

If yes, what is the planned date for completion of the plan?: _____

If not, please explain why: _____

37 For measures that are proposed to minimise the ongoing adverse effects from remaining contamination, what monitoring and maintenance measures are proposed?

38 Do you propose to undertake groundwater monitoring at the site post-site disturbance?

Yes No

If yes, please describe how and where groundwater will be sampled, the frequency of sampling, and the analytical parameters for which the sample will be analysed: _____

If not, please explain why: _____

39 Do you propose to undertake surface water monitoring at the site post-site disturbance?

Yes No

If yes, please describe how and where surface water will be sampled, the frequency of sampling, and the analytical parameters for which the samples will be analysed: _____

If not, please explain why: _____

PART H: Consultation

- 40 Please comment on any consultation undertaken with those persons/parties who may be interested in or potentially affected by the disturbance of the contaminated site (e.g., local council, Public Health South, neighbouring landowners and occupiers, iwi).

- 41 Please provide any written approvals to the activity using Council's standard *Form 1 Resource Consent Application*.

PART I: Is Your Application Complete?

- 1 In order to provide a complete application have you remembered to:

- (a) Fully complete this schedule?
- (b) Include a location / site plan?
- (c) Include any relevant site reports?
- (d) Attached any other appropriate additional information?