

TRANSACTION REPORT

P. 01

22-APR-2005 FRI 12:19

FOR: CONTAM LAND UNIT - EPA 07 32473278

BROADCAST

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	MNO.	DP
22-APR	12:09	037175155	2' 08"	7	SEND	OK	268	
	12:12	040466606	2' 04"	7	SEND	OK	268	
	12:14	033647102	2' 08"	7	SEND	OK	268	
	12:17	032432199	2' 04"	7	SEND	OK	268	
TOTAL :						8M 24S	PAGES: 28	

Enquiries to: E Black
 Telephone: (07) 3225 1077/Fax (07) 3247 3278
 Your reference: 5115014
 Our reference: BNE10342



**Queensland
Government**

Environmental Protection Agency
 Incorporating the
Queensland Parks and Wildlife Service

Permit to Remove and Dispose of Contaminated Soil

Pursuant to Section 424 of the *Environment Protection Act* 1994 (EP Act) permission is given to the applicant

sch4p4(6) Personal information

OTEK Australia Pty Ltd
 29 Enterprise Street, RICHLANDS QLD 4077
 Telephone: (07) 3717 5100
 Fax: (07) 3717 5155

to remove and dispose of soil contaminated with
 petroleum hydrocarbons
 from Bruce Highway, TULLY QLD 4854

on Lot 2 on T746107 and Lot 3 on T74661 and described in the following correspondence:

Application for Diesel Permit dated 21 April 2005 and TDR information dated 20 April 2005

438

Elissaveth Black

From: sch4p4(6) Perso@URSCorp.com
Sent: Wednesday, 20 April 2005 11:13 AM
To: Elissaveth Black
Subject: Disposal Permit -BP Tully

Elissaveth

As the TPR for the BP Ingham site I have received a Disposal Permit application from OTEK to remove 1000 m3 of hydrocarbon impacted soil from the BP Tully Depot (Lots 2 & 3 T746107) to the BP Cairns Depot (Lot 345 on SP 113643 - Cnr of Kenny and Draper Streets, Portsmith). It is noted that the soil stored at the Tully Depot was brought onto site from the BP Ingham site.

It is also noted that the Certificate of Title for the BP Cairns Depot site refers to the Cairns Port Authority as the land's owner, but the letter of acceptance for the impacted soil has been provided by BP. However, it is my understanding that, in this case, BP would be regarded as the owner as the land has been leased under an Act. I have also reviewed a portion of the Lease agreement between the Cairns Port Authority and BP and I am satisfied that, based on the Figure provided in the Lease, the land identified on the lease is the correct land. ✓

As TPR for the BP Ingham site I support the issuing of the Disposal Permit providing the following conditions are included as a minimum:

1. The volume of contaminated soil removed from the BP Tully site does not exceed 1000 m3.
2. The landfarming operation at the BP Cairns Depot (Lot 345 on SP 113643) be performed in accordance with the procedures set out in the correspondence from OTEK to the EPA dated 4 April 2005.
3. The area on which the soil is landfarmed be maintained at a level so that storm water run-off does not pass through the landfarm.
4. The results of the validation sampling for the "remediated" soils be reviewed and approved by the TPR prior to the soils being removed from Lot 345 on SP 113643.
5. Standard EPA Disposal Permit conditions are to apply.

Note - I will organise to have the originals of the Disposal Permit application forwarded to you.

Please contact me on 32432129 if you have any questions on this matter.

Regards

sch4p4(6) Personal

Principal Environmental Chemist
URS Australia Pty. Ltd.
Level 14, 240 Queen Street, Brisbane
Queensland 4000 Australia

sch4p4(6) Perso@urscorp.com

Phone: (07) 3243 2111

Fax: (07) 3243 2199

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STATE TENURE SEARCH

● NATURAL RESOURCES & MINES, QUEENSLAND

Request No: 112037398
Search Date: 05/10/2004 1:36 pm

Title Reference: 17765241
Date Created: 22/10/1995

DESCRIPTION OF LAND

Tenure Reference: SL 0/200867

LOT 3 CROWN PLAN T74661
County of CARDWELL Parish of ROCKINGHAM
Local Government: CARDWELL SHIRE
LOT 2 CROWN PLAN T746107
County of CARDWELL Parish of ROCKINGHAM
Local Government: CARDWELL SHIRE

Area: 0.315100 Ha. (SURVEYED)

No Land Description

No Forestry Entitlement Area

Purpose for which granted:
INDUSTRIAL (NOT ON DBIRD LAND)

TERM OF LEASE

Term and day of beginning of lease

Term: 30 years commencing on 01/12/1994

Expiring on 30/11/2024

REGISTERED LESSEE

BP REFINERY (BULWER ISLAND) LIMITED A.C.N. 008 422 115

CONDITIONS

- A4 The lessee shall use the leased land for industrial purposes and for purposes incidental thereto.
- B25 The rent shall be paid yearly in advance and for the first annual rental period or part thereof shall be at the rate of \$2490 per annum.
- B26 The annual rent for the remaining rental periods shall be determined in accordance with the provisions of the Land Act 1962.
- C1 The right of resuming the whole or any part of the leased land at any time on giving six (6) months notice and compensating for improvements only shall be reserved to the Crown.

Page 1/-

Schedule 1 of 2 – Specific Conditions

The volume or mass of the contaminated soil shall not exceed 1580 cubic metres.

The soil is to be disposed in accordance with the disposal facility approval letter dated 5/10/2004 at BP Service Depot, Tully.

The soil must be disposed between 9/10/2004 and 10/01/2005.

Other Conditions:

- (a) The contaminated soil must be placed for bioremediation only on Lot 2 on T746107 of the nominated receival facility.
- (b) The bioremediation activities must be conducted in accordance with the information outlined in the application for this Disposal Permit.
- (c) A report about the results of the bioremediation activities must be forwarded to the Third Party Reviewer for review and approval prior to submission to the EPA.

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NATURAL RESOURCES & MINES, QUEENSLAND

Request No: 112037398
Search Date: 05/10/2004 1:36 pm

Title Reference: 17765241
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Local Government: CARDWELL SHIRE
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County of CARDWELL Parish of ROCKINGHAM
Local Government: CARDWELL SHIRE

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Request No: 112037398
Search Date: 05/10/2004 1:36 pm

Title Reference: 17765241
Date Created: 22/10/1995

DESCRIPTION OF LAND

Tenure Reference: SL 0/200867

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County of CARDWELL Parish of ROCKINGHAM
Local Government: CARDWELL SHIRE
LOT 2 CROWN PLAN T746107
County of CARDWELL Parish of ROCKINGHAM
Local Government: CARDWELL SHIRE

Area: 0.315100 Ha. (SURVEYED)

No Land Description

No Forestry Entitlement Area

Purpose for which granted:
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Term and day of beginning of lease

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- C1 The right of resuming the whole or any part of the leased land at any time on giving six (6) months notice and compensating for improvements only shall be reserved to the Crown.

Page 1/-

David Ward
(07) 225 1961

900551

15 September 1994

Mr Stephen Klaric
Contract Project Engineer
BP Australia Ltd
PO Box 718
HAMILTON QLD 4007

Dear Mr Klaric,

BP TULLY DEPOT - BRUCE HIGHWAY TULLY

Reference is made to your letter of 7 September 1994 advising the Department of Environment and Heritage of your intention to replace a 10,000 litre underground storage tank with a 20,000 litre underground storage tank at the BP Tully Depot Bruce Highway, Tully (Lot 2 on T746107 and Lot 3 on T74661).

Your letter indicates that the local Council has agreed to allow the soil to be placed at their waste/refuge tip. Under section 14 of the Contaminated Land Act, the Contaminated Land Section must give approval for all movements of contaminated soil. This approval must be sought before spoil is moved from one site to another, or to local authority landfill. Please find enclosed a copy of the requirements needed before an off-site disposal permit will be issued by the Contaminated Land Section.

It is suggested that any excavated soil be stockpiled on site and tested as the levels of contamination and the volume of spoil need to be ascertained before an off-site disposal permit will be issued.

If you have any queries please contact David Ward on (07) 225 1961.

Yours sincerely

sch4p4(6) Personal info

David Ward
Scientific Officer
Contaminated Land Section

f:\contaml\davidw\offsite\bptully.let

sch4p4(6)



Queensland
Government

Enquiries to: E Black
Telephone: (07) 3225 1077/Fax (07) 3247 3278
Your reference:
Our reference: BNE10342

Environmental Protection Agency

Incorporating the
Queensland Parks and Wildlife Service

Permit to Remove and Dispose of Contaminated Soil

Pursuant to Section 424 of the *Environment Protection Act* 1994 (EP Act) permission is given to the applicant

[Redacted] sch4p4(6) Personal information

OTEK Australia Pty Ltd
29 Enterprise Street RICHLANDS QLD 4077
Telephone: (07) 3717 5100
Fax: (07) 3717 5155

to remove and dispose of soil contaminated with
petroleum hydrocarbons

from BP Tully Depot, Bruce Highway, TULLY QKD 4854

on Lot 2 on T746107 and Lot 3 on T74601 and described in the following correspondence:

Application for Disposal Permit dated 1 December 2005.

The permit holder is responsible for ensuring that the specific and standard conditions in Schedules 1 and 2 of this permit are complied with by all personnel involved in the excavation, removal and disposal.

Signed

[Redacted] sch4p4(6) Personal information

Elissaveth Black

Principal Environmental Officer (Contaminated Land Unit)

9/12/05

Cc: EPA (Cairns), attn. Mark Cavicchiolo, Fax 4046 6606

Cc: Cardwell Shire Council, attn. Geoff Wilson, Fax 4068 1772

Notice to Applicant

The conditions on this permit have been decided after consideration of the standard criteria (EP Act) and for the purpose of preventing environmental harm. The applicant may apply for a review or appeal against the decision within 10 business days of receipt of this notice (s521 and s531).

Dear Registry!

- 1) Please amend EMR.*
 - 2) Please return to me for filing.*
- Thanks, is*

EMR updated

[Redacted] sch4p4(6) Personal information

13/12/05

Also To

[Redacted] sch4p4(6) Personal information

*THIRD PARTY
REVIEWER*

3243 2199

288 Edward Street Brisbane
Queensland 4000 Australia
GPO Box 2771, Brisbane Qld 4001
Telephone (07) 3225 1827

Schedule 1 of 2 – Specific Conditions

The volume or mass of the contaminated soil shall not exceed 1800 cubic metres.

The soil is to be disposed in accordance with the disposal facility approval letter dated 24/12/2005 at Cardwell Shire Council Landfill, Tully Gorge Road, Tully.

The soil must be disposed between 9/12/2005 and 9/02/2006.

Other Conditions:

(a) The landfarming operation for the contaminated soil to which this Disposal Permit pertains at the Cardwell Shire Council Landfill facility must be performed in accordance with the procedures set out in the Disposal Permit Application.

(b) The area on which the soil is landfarmed at the nominated landfill facility must be maintained so that stormwater run-off does not pass through the landfarm.

(c) The results of the validation sampling for the "remediated" soils must be forwarded to the TPR assigned to the source site for review and approval of removal of the remediated soil from the nominated landfill facility.

Schedule 2 of 2 – Standard Conditions

1. Volume / mass of contaminated soil

This permit applies to the specified volume or mass only. Any increases to the specified quantity will require a new disposal permit.

2. Disposal time period

Disposal must occur within the dates specified or a new disposal permit must be sought.

3. Excavation and loading

The holder of this disposal permit must take all reasonable precautions necessary to prevent the spillage of contaminated soil during loading and prevent contaminated soil being transported from the site of origin on vehicle tyres and plant and equipment.

4. Transportation

(a) *Transporter to be advised of permit conditions*

Prior to the removal of contaminated soil, the permit holder must provide a copy of the permit and conditions to the transporter.

(b) *Load to be secured*

The contaminated soil must be covered in the transportation vehicle to ensure that the contaminated soil or offensive or noxious gases are not released during transport.

(c) *Cleaning of vehicles and plant equipment*

An effective system must be employed for cleaning of vehicles and plant and equipment which are used to transport or handle contaminated soil which prevents release of contaminants onto any roadway or to any waters or stormwater drainage system.

(d) *Spillage*

Any spillage of contaminants must be cleaned up as quickly as practicable. Spillages must not be cleaned up by hosing, sweeping or otherwise releasing such contaminants or material to any stormwater drainage system, roadside gutter or waters.

5. Receival and disposal

(a) *Licence conditions*

The acceptance and disposal of the contaminated soil must comply with the licence conditions and the specific requirements of the disposal facility.

(b) *Disposal receipts*

Copies of disposal acceptance receipts are to be submitted to the Administering Authority within 10 business days of the date of disposal. The holder of, or person acting under a disposal permit, must comply with the conditions of the permit (s425 of the *Environmental Protection Act 1994*).

Maximum penalty - 100 penalty units.

6. Interim storage

Contaminated soil which is temporarily stored at the site of origin or approved for storage at a separate property must be stockpiled and securely covered and/or managed to ensure that:

- (a) rainwater is drained away from the stockpiles;
- (b) contaminated soil is not transported from the stockpile by wind or rainwater;
- (c) offensive odours or noxious gases are not released; and
- (d) soil underlying the stockpiles is not affected by contamination.

A report is to be provided to the Administering Authority within 28 days of final disposal that verifies that the storage area is fully cleared of contamination.

7. Treatment of soil

(a) Licensed facility

When treatment is to be undertaken at a licensed general waste disposal facility or regulated waste treatment and disposal facility, acceptance receipts must be provided to the Administering Authority within 10 days of contaminated soil delivery. The contamination level in the soil must be reduced to a level agreed by the Administering Authority. When contaminated soil is stored at such facility pending treatment, storage is to be undertaken according to condition 6.

(b) Other treatment sites

(i) Soil remediation and validation report.

The permit holder must provide a report of the soil remediation including chemical test results that validate that the contamination has been lowered to levels agreed with the Administering Authority. The report must provide evidence that the land underlying the treatment activity is not affected by contamination.

(ii) Environmental harm.

Treatment activities must be carried out to ensure that environmental harm is not caused and that contaminants including treatment agents are not released from the site by wind, stormwater or as offensive or noxious gases. The requirements of condition 6 also apply.

(c) Final disposal

When soil contamination has been reduced to levels acceptable to the Administering Authority, the soil may be disposed of as general fill unless otherwise specified in Schedule 1. The location of the final disposal site of the soil is to be identified after treatment by written advice to the Administering Authority.

****End of Document****

TRANSACTION REPORT

P.01

09-DEC-2005 FRI 15:48

FOR: CONTAM LAND - EPA

0732473278

BROADCAST

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	MNO.	DP
09-DEC	15:47	037175155	**' **"	0	FAX TX	BUSY	598	
	15:34	040466606	1' 20"	4	FAX TX	OK	598	
	15:36	040681772	2' 21"	4	FAX TX	OK	598	
	15:39	032432199	54"	4	FAX TX	OK	598	

TOTAL : 4M 35S PAGES: 12



**Queensland
Government**

Enquiries to: E Black
Telephone: (07) 3225 1077/Fax (07) 3247 3278
Your reference:
Our reference: BNE10342

Environmental Protection Agency
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Pursuant to Section 424 of the *Environment Protection Act* 1994 (EP Act) permission is given to the applicant

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Telephone: (07) 3717 5100

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to remove and dispose of soil contaminated with
petroleum hydrocarbons

from BP Tully Depot, Bruce Highway, TULLY QKD 4854

on Lot 2 on T746107 and Lot 3 on T74601 and described in the following correspondence:

Application for Disposal Permit dated 1 December 2005.

Elissaveth Black

From: sch4p4(6) Perso @URSCorp.com
Sent: Thursday, 1 December 2005 1:22 PM
To: Elissaveth Black
Subject: Disposal Permit Application BP Tully Depot

Elissaveth

I have received a Disposal Permit Application to remove and landfarm 1,800 m3 of soil from the BP Tully depot (soil was formally from the BP Ingham site) to the Cardwell Shire's landfill at Tully Gorge Road Tully. This original application was made on 14 November however I requested further information from the Cardwell Shire which has subsequently been provided to me. I am now satisfied that the permit should be issued subject to the following conditions:

1. The volume of contaminated soil removed from the BP Tully site does not exceed 1,800 m3.
2. The landfarming operation at the Cardwell Shire landfarm must be performed in accordance with the procedures set out in the Disposal Permit Application.
3. The area on which the soil is landfarmed be maintained so that storm water run-off does not pass through the landfarm.
4. The results of the validation sampling for the "remediated" soils be reviewed and approved by the TPR prior to the soils being removed from the landfarm.
5. Standard EPA Disposal Permit conditions are to apply.

Note - I will organise to have the originals of the Disposal Permit application forwarded to you.

Please contact me on 32432129 if you have any questions on this matter.

Regards

sch4p4(6) Personal

Principal Environmental Chemist
JRS Australia Pty. Ltd.
Level 14, 240 Queen Street, Brisbane
Queensland 4000 Australia

sch4p4(6) Personal
@urscorp.com

Phone: (07) 3243 2111

Fax: (07) 3243 2199

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Cardwell Shire Council
Health Department
38-40 Bryant Street Tully 4854
Phone (07) 40 439 100 Fax (07) 40 681 772
Rates 40 439 129, Building, Water & Sewerage 40 439 144,
Town Planning 40 439 130 Works Depot Tully 40 439 148,
Health & Animal Control 40 439 140



Name	sch4p4(6) Personal information			Fax	(07) 3426 5299
Company	OTEK			Phone	
From	Geoff Wilson (Manager of Environmental Health Services)			Date	24 November 2009
Priority	Normal	No. of pages including cover	1	File No.	

Message

Dear sch4p4(6) f

RE: CONTAMINATED SOIL STORAGE AT BP TULLY SITE

Please be advised that Cardwell Shire Council will accept the 1800m³ of contaminated soil at our Land site at Tully.

We have the available land to use the spoil for land farming until it is acceptable to use as cover material. This will be determined by guidelines from the Environmental Protection Agency (EPA) for safe levels. As discussed we would accept the spoil at a charge of 10m³.

If you require any further information please contact the Health Department on 4043 9140.

Regards

sch4p4(6) Personal information

GEOFF WILSON
MANAGER OF ENVIRONMENTAL HEALTH SERVICES

Elissaveth Black

From: [REDACTED]@otek.com.au]
Sent: Thursday, 1 December 2005 3:14 PM
To: elissaveth.black@epa.qld.gov.au
Cc: [REDACTED]
Subject: Request for Transferral of Contaminated

Dear Ms Black,

Please find attached a Request for Transferral of Contaminated Soil from the BP Service Depot, Bruce Highway, Tully to the Cardwell Shire Council Landfill Facility, Tully Gorge Road, Tully. I believe [REDACTED] (the TPR from URS) has also sent you some recommendations regarding this project. I am emailing on behalf of [REDACTED] who is currently on holidays, but if you have any questions, please feel free to contact myself or [REDACTED] at the phone number shown below.

Regards,
[REDACTED]

[REDACTED]
Project Manager

OTEK Australia Pty Ltd

PH: (07) 3426 5200

FAX: (07) 3426 5299

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21 November 2005

Ms Elissaveth Black
Principal Environmental Officer
Contaminated Land Unit
Environmental Protection Agency
PO Box 155
BRISBANE QLD 4002

**REQUEST FOR TRANSFERRAL OF CONTAMINATED SOIL
BP SERVICE DEPOT, BRUCE HIGHWAY, TULLY
TO THE CARDWELL SHIRE COUNCIL LANDFILL FACILITY, TULLY GORGE ROAD,
TULLY.**

Dear Ms Black

On behalf of BP Australia Pty Ltd, OTEK Australia Pty Ltd (OTEK) seeks approval from the Environmental Protection Agency (EPA) to transport up to 1800m³ of hydrocarbon impacted soil from the BP Service Depot, Tully to the Cardwell Shire Council Landfill, Tully for soil contamination delineation purposes. An Application for Disposal Permit Form has been included as Attachment A.

BACKGROUND

OTEK conducted remediation activities in October 2004 on the BP Service Station located on Townsville Road in Ingham, Queensland. The purpose of the work was to remediate as much hydrocarbon impacted soil from the northern portion of the site (including fuel tank removal and reinstatement) as possible without creating subsidence problems. During this remediation approximately 1600m³ of hydrocarbon impacted soil was removed to the BP Service Depot, Bruce Highway, Tully for remediation purposes under EPA Permit to remove and dispose of contaminated soil (your reference BNE10342).

Following remediation activities approximately 800m³ of clean soil from the Ingham site was also removed to the Tully Depot site. This soil was removed by the building contractors for building purposes without the permission of OTEK or BP. This clean soil was stockpiled with the hydrocarbon contaminated soil and was later turned into the impacted soil during a scheduled routine turning event. OTEK was not aware that it was present on-site. Soil sampling conducted on the 16 February (see Table 1) indicated hydrocarbon contamination to this clean soil. Ongoing effective and environmentally responsible on-site remediation at the Tully Service Depot for the total of 2400m³ is not practical due to space limitations.

It was proposed to remove up to 1000m³ of soil to the BP Service Depot located on the corner of Kenny and Draper Streets, Portsmouth for remediation purposes. A Permit to Remove and Dispose of Contaminated Soil was requested and gained from the EPA on 22 April 2005 your reference BNE10342.

The coordination of this soil removal began in April 2005 immediately following the EPA issue of the soil disposal permit, however following Tully's persistent rain and the inability of contractors to transport this wet soil the permit expired on 25 July 2005 without any soil having been removed.

ANALYTICAL TESTING

Eleven soil samples collected from the south-western portion of the stockpile (where the clean soil was unloaded and turned) on 16 February 2005 were submitted AMDEL at Murarrie, Brisbane and a further six soil samples were collected on the 10 June 2005 and submitted to ALS Environmental of Stafford, Brisbane. Samples were analysed for Total Petroleum Hydrocarbons (TPH), Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) and lead. Table 1 is a tabulation of these soil sample results, whilst Table 2 and 3 are tabulations of the QA/QC soil and water results. The results of analytical testing as presented by AMDEL and ALS are included as Attachment B.

Analytical results characterising the remainder of the soil are detailed in the previous Soil Disposal Permit (your reference BNE10342).

TRANSFERRAL OF SOIL

Due to the inability to remove this soil over the past year and the unknown status of contamination of the soil following approximately 1 year of stockpiling a landfarming pad is required to be able to accurately sample this soil to determine the contamination status.

As the cost associated with transporting this soil to the nearest available BP/Reliance landfarming pad in Cairns (especially as some of the soil may be clean) is excessive it is proposed to stockpile a portion of the soil at the Cardwell Landfill facility to allow accurate delineation of contamination and in turn allow judgement on soil disposal and/or remediation options. It is proposed an estimated 1800m³ will require transportation.

OTEK has obtained approval from the Cardwell Shire Council to landfarm this soil at the Cardwell Landfill Facility. This written acceptance is enclosed in Attachment C and the Certificate of Title for the Cardwell Landfill Facility is enclosed in Attachment D.

Following soil sampling and analysis of the analytical results soils will either be disposed of or landfarmed until validation results confirm that the soil is below EPA Environmental Investigation Levels (EILs).

LANDFARMING

Landfarming at the Cardwell Landfill Facility would be undertaken in accordance with the following management plan.

1. Soil would be stockpiled to a maximum height of approximately 1m.
2. A bund of hay/straw bales, clean earth or sediment fences will be formed around the remediation area to stop migration of contaminants. Saturated soil requiring remediation will be stockpiled on plastic sheeting or on-site concrete to prevent migration of hydrocarbons to the subsurface.

3. The hydrocarbon impacted soil will be remediated using bioremediation and enhanced volatilisation. Remediation will involve the addition of nutrients to stimulate bioremediation and regular turning, using an excavator, to add oxygen and enhance volatilisation. Any excess odours will be controlled by watering and use of an odour suppressant.
4. OTEK will periodically field screen the remediating soil to determine when remediation has been completed. Once the remediation process is believed to be finished then validation samples will be obtained at a rate of one sample for every 50m³ of hydrocarbon impacted soil and analysed for hydrocarbons.
5. When analytical results indicate hydrocarbon concentrations are below EPA guidelines a copy of the results will be forwarded to the EPA.

The sampling protocol for samples is detailed in Attachment F.

On behalf of BP Australia Pty Ltd, OTEK seeks approval from the EPA to transport approximately 1800m³ of hydrocarbon impacted soil from the BP Service Depot, Tully to the Cardwell Landfill Facility, Tully for soil contamination delineation purposes.

Should you require further information, please call this office on (07) 3426 5200.

Sincerely

sch4p4(6) Personal information

sch4p4(6) Personal information

Project Manager

Technical Lead

Enclosures:

- Table 1 – Analytical Summary – Soil Samples (BTEX, TPH and Lead)
- Table 2 – Analytical Summary – QA/QC Soil Samples (BTEX, TPH and Lead)
- Table 3 – Analytical Summary – QA/QC Water Sample (BTEX, TPH)
- Figure 1 – Site Layout – BP Service Depot Tully
- Attachment A – Contaminated Soil Disposal Permit
- Attachment B – Analytical Data
- Attachment C – Cardwell Shire Council, Tully, Acceptance Letter
- Attachment D – Certificate of Title (BP Tully Service Depot)
- Attachment E – Soil Sampling Protocol

TABLE 1
ANALYTICAL SUMMARY - SOIL SAMPLES (BTEX, TPH & LEAD)
BP DEPOT
BRUCE HIGHWAY, TULLY

Sample ID	Depth	Date Sample Obtained	BTEX					TPH					Pb
			Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	C ₆ -C ₉ (mg/kg)	C ₁₀ -C ₁₄ (mg/kg)	C ₁₅ -C ₂₈ (mg/kg)	C ₂₉ -C ₃₆ (mg/kg)	Total TPH (mg/kg)	Lead (mg/kg)
A-2/V-1	1.5	16/02/2005	ND	ND	ND	ND	ND	ND	20	140	ND	160	32
A-2/V-2	1.5	16/02/2005	ND	ND	ND	ND	ND	ND	80	280	ND	360	20
A-2/V-3	1.5	16/02/2005	0.6	6	4	26	36.6	120	180	380	ND	680	17
A-2/V-4	1.5	16/02/2005	ND	ND	ND	ND	ND	12	70	300	ND	382	38
A-2/V-5	1.5	16/02/2005	ND	ND	ND	ND	ND	24	280	540	ND	844	19
A-2/V-6	1.5	16/02/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32
A-2/V-7	1.5	16/02/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	76
A-2/V-8	2.5	16/02/2005	ND	ND	ND	ND	ND	ND	ND	120	ND	120	37
A-2/V-9	0.5	16/02/2005	ND	ND	ND	ND	ND	ND	ND	ND	90	90	43
A-2/V-10	2.5	16/02/2005	ND	ND	ND	1	1	20	120	360	ND	500	18
A-2/V-11	0.5	16/02/2005	ND	ND	ND	ND	ND	ND	120	ND	ND	120	26
BP-S1	-	10/06/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	44
BP-S2	-	10/06/2005	ND	ND	ND	ND	ND	8	ND	ND	ND	8	48
BP-S3	-	10/06/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	58
BP-S4	-	10/06/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40
BP-S5	-	10/06/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	72
BP-S6	-	10/06/2005	ND	ND	ND	ND	ND	ND	ND	110	ND	110	63
EPA EIL			1	-	-	-	*7	*100	*100	*1000	*1000	*1000	300
AMDEL PQL			0.2	1	1	3	^	5	10	50	50	^	5
ALS LOR			0.2	0.2	0.2	0.4	^	2	50	100	100	^	5
AMDEL Methodology			E1010 P & T					E1230		E1221		E5910	
ALS Methodology			EP080					EP080		EP071		EG005T	

Notes:

Sample ID: A-#/V-# denotes a discrete soil sample obtained from a stockpile at a specified depth;

"ND" denotes not detected above the laboratory Practical Quantitation Limit (PQL) or Limit of Reporting (LOR);

"^" denotes that the total is the sum of individual results;

Environmental Investigation Levels (EIL) as stated in Draft Guidelines for the Assessment and Management of Contaminated Land in Queensland (May, 1998);

*EIL as stated in Draft Contaminated Land Assessment of Service Station Sites, CHEM Unit (March, 1992); and Shading denotes levels above the EPA EIL.

TABLE 2
ANALYTICAL SUMMARY – QA/QC SOIL SAMPLES (BTEX, TPH and Lead)
BP DEPOT
BRUCE HIGHWAY, TULLY

Sample ID	BTEX				TPH				
	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	C ₆ -C ₉ (mg/kg)	C ₁₀ -C ₁₄ (mg/kg)	C ₁₅ -C ₂₈ (mg/kg)	C ₂₉ -C ₃₆ (mg/kg)	Pb Lead (mg/kg)
A-2/V-8	ND	ND	ND	ND	ND	ND	120	ND	37
QS-1	ND	ND	ND	ND	ND	ND	60	100	69
RPD%	0	0	0.6	0	0	0	36.6	120	60.3
BP-S5	ND	ND	ND	ND	ND	ND	ND	ND	72
BP-DUP1	ND	ND	ND	ND	ND	ND	ND	ND	37
BP-DUP2	ND	ND	ND	ND	ND	ND	ND	ND	44
RPD%	0	0	0.6	0	0	0	36.6	120	60.3
PQL	0.2	1	1	3	5	10	50	50	5
LOR	0.2	0.2	0.2	0.4	2	50	100	100	5
If analyte is <5 x LOR the acceptable RPD is 200% If analyte is ≥5 x LOR the acceptable RPD is 50% (Sandy soils) If analyte is ≥5 x LOR the acceptable RPD is 75% (Clayey soils)									

Notes:

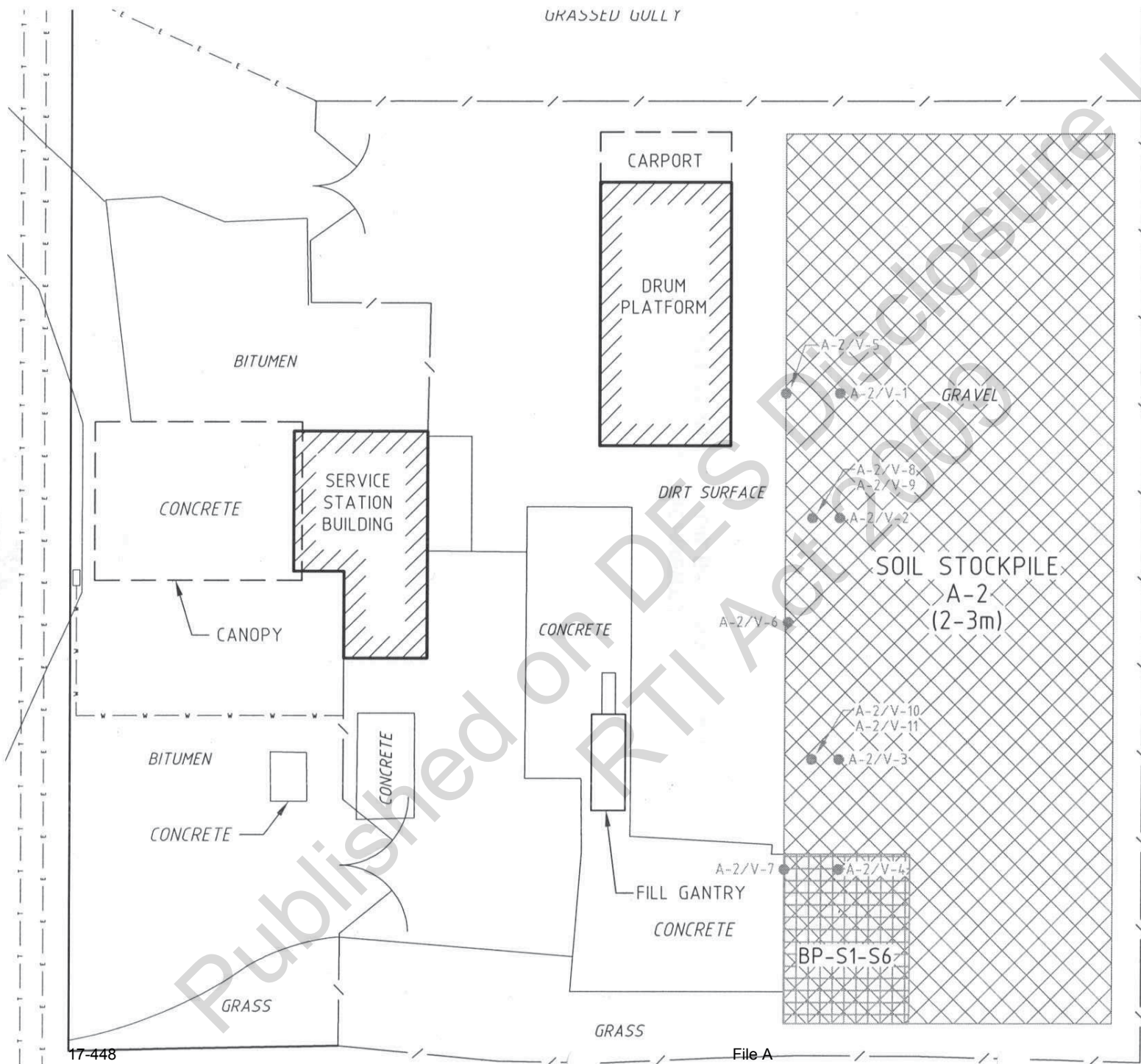
- Sample ID: A-#/V-# denotes a soil sample from a stockpile; QS-# denotes a quality duplicate sample; and
- "RPD" denotes Relative Percent Difference;
- "ND" denotes concentrations not detected. For concentrations not detected, a value of the Practical Quantitation Limit (PQL) was substituted for the calculation of RPD; and
- Shading indicates an unacceptable RPD.

TABLE 3
ANALYTICAL SUMMARY – QA/QC WATER SAMPLE (BTEX, TPH)
BP DEPOT
BRUCE HIGHWAY, TULLY

Sample ID	Date Sample Obtained	BTEX					TPH				
		Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	C ₆ -C ₉ (µg/L)	C ₁₀ -C ₁₄ (µg/L)	C ₁₅ -C ₂₈ (µg/L)	C ₂₉ -C ₃₆ (µg/L)	Total TPH (µg/L)
QW-1	16/02/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PQL		0.5	1	1	3		20	20	100	100	

Notes:

- Sample ID: QW-# denotes a quality equipment rinsate sample;
- "ND" denotes concentrations not detected; and
- QW-1 obtained after pouring water over a disposable glove.



LEGEND

	IN
	FE
	EL
	W
	TI
	A-#/V-# S
	S
	GI

**ATTACHMENT A
CONTAMINATED SOIL DISPOSAL PERMIT**



Department of Environment

Hazardous Waste and Contaminated Sites Section
Department of Environment
PO Box 155
BRISBANE ALBERT STREET
QLD 4002
Ph: (07) 3225 1827 Fax: (07) 3227 8341

Application for Disposal Permit

Section 118ZZF Environmental Protection Act (1994)

Please note: Failure to lodge all required information can result in your application being rejected and returned to you for completion and resubmission.

Important Information (please read before completing this form)

A decision on an application will be made within 14 days of receipt, with a further 10 days allowed for preparation of the permit.

Complete the following: (Attach a separate sheet if more space required)

1. Applicant details

(This is the contact person to whom the application will be sent and to whom all enquiries will be directed)

Contact name sch4p4(6) Personal information Telephone 34265299 Fax 34265299
Company name (if applicable) OPEX Australia Pty Ltd
Postal address P.O. Box 281, Maroocha, QLD
Postcode 4105

2. Details of site(s) from which soil is to be removed

Has a site investigation report been submitted to DoE?

☐ Yes DoE file number

☒ No (Original Soil from Ingham, DoE No. BNE10342)

Real Property Description (Lot on Registered Plan) Lot 2 & 3 on Plan T746107

Street address of site(s) Bruce Highway, Tully, T74661

Copy of current Certificate of Title

☒ Enclosed with this application

☐ Submitted previously to the DoE within a site investigation report

Has the site been used for a notifiable activity as per Schedule 3 of the Environmental Protection Act 1994?

☒ Yes (please specify)

☐ No

Is the site presently being used for a notifiable activity?

☒ Yes (please specify)

☐ No

Is the site currently on the Environmental Management Register or Contaminated Land Register?

☒ Yes

☐ No (if no, a notification form must be submitted to DoE)

Has contaminated soil been removed from this site in the past?

☐ Yes (if yes, was an application for off-site disposal sought?)

☒ No

☐ Yes ☐ No

3. Approximate volume (in m³) of soil to be removed (allowing for excavation bulking)

1800m³

Describe how the volume of soil to be removed was calculated

length x width x height (Bulked through initial transport)

4. Dates between which soil will be moved to the disposal location (as per section 118ZZF(7), permits will only be valid between dates stipulated in the disposal permit)

1 November 2005 to 1 June 2006

5. Justification of request

Reason(s) why on-site treatment or management not proposed

Space limitations

Will validation sampling be undertaken to ensure that contaminated soil is removed? No, not until all soil has been removed from site

6. Description of contamination present in soil to be removed

Contaminants present TPH / BTEX

Please enclose with your application:

- ☒ Scaled diagram showing soil sampling locations and contamination source(s)
- ☒ Tabulation of soil analysis results
- ☒ TCLP results from relevant soil samples
- ☒ Laboratory reports and sample receipt advices for all soil analyses
- ☒ Explanation of location and depths of samples, how samples were collected, and how sample integrity was maintained.

7. Written acceptance from the owner of site receiving soil

Is the soil being removed to a local government-administered landfill?

- ☒ Yes ☒ Written acceptance from the local government authority is enclosed
- ☐ No (Please complete section 8 of this application form).

Name and address of local government-administered landfill Cardwell Landfill Facility, Tully Gorge Road, Tully, Qld

8. Description of site receiving soil (complete this section only if soil not going to a local government-administered landfill)

Real Property Description (Lot on Registered Plan) Lot _____ on Plan _____

Street address of site _____

Local government authority _____

- ☐ Copy of Certificate of Title provided
- ☐ Written acceptance from registered owner of site is enclosed with this application

Disposal Permit - Application Review 8 December 05	
Source Site	
Address	BP TOLLY DEPOT BRUCE Hwy TOLLY QLD 4854
File No.	BNE 10342
Lot + Plan No	lots 2 on T 746107 and 3 on T 746011
EMR ID	13427 13428
Notifiable Activity	29+ petroleum product in oil storage
CoT	✓
Plan/Figure	✓
Contamination	
Contaminant	petroleum hydrocarbons
No. Samples	11 samples - 16/2/05 all < 1L 6 " - 10/6/05
Contaminant Concentration	7 samples < 1L 1 sample C 6-9 120 C 10-14 180 1 " " " 280 2 " " " 120
Disposal Volume: 1800 m ³	BTX 36.6 x 26 T6 E4
QA/QC - OK: ✓ as per TPR+	
CoC, Labs - OK: ✓ e-copies	
Treatment/Disposal Site	
Address	Cardwell Shire Council Landfill Tully Gorge Rd, Tully
Acceptance Letter	✓ 24/11/05
Proposed Action (Treatment/Disposal)	landfilling
Acceptance Criteria	✓ as per discussions with Cardwell + local EPA

NOTIFICATION OF CONTAMINATED SITE

900959

Of Land used for a prescribed purpose under the *Contaminated Land Act 1991* and the *Contaminated Land Regulation 1991*.

Local Authority Area: Cardwell Shire Council

Information Provided By: Commercial Engineering
BP Australia Limited
BP House
193 North Quay
Brisbane Qld 4000

Telephone: (07) 364-7111

Name by which the property is known Locally: BP Tully Depot

Location: Northern Highway
Tully Qld 4854

Real Property Description: Lot 2 on Plan Number T 746107 and
Lot 3 on Plan Number T 74661
S/L 26/28105
County of Cardwell, Parish of Rockingham
Certificate of Title Volume 7572 Folio 179

Name and Postal Address of Owner: Land Administration Commission
P O Box 168
North Quay Qld 4002

Description of the source of the suspected contamination or the prescribed purpose for which the land is or has been used:

Depot