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Published on: 1 August 2011 Statement No. 871

STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED (PURSUANT TO THE PROVISIONS OF THE ENVIRONMENTAL PROTECTION ACT 1986)

CHRISTMAS CREEK WATER MANAGEMENT SCHEME PILBARA REGION

Proposal: The proposal is to increase the mine dewatering rate up

to 50 Gigalitres per annum and to inject surplus water into two brackish and one saline injection zones at the

Christmas Creek Mine.

The proposal is further documented in schedule 1 of this

statement.

Proponent: Fortescue Metals Group Ltd

Proponent Address: Level 2, 87 Adelaide Terrace,

EAST PERTH WA 6004

Assessment Number: 1873

Previous Assessment Number: 1520

Report of the Environmental Protection Authority: Report 1402

Associated Report of the Environmental Protection Authority: Report 1202

Associated Statement Number: 0707 (Published on 16 December 2005)

The proposal referred to in the above report of the Environmental Protection Authority may be implemented. The implementation of that proposal is subject to the following conditions and procedures:

1 Proposal Implementation

1-1 The proponent shall implement the proposal as documented and described in schedule 1 of this statement subject to the conditions and procedures of this statement.

2 Proponent Nomination and Contact Details

- 2-1 The proponent for the time being nominated by the Minister for Environment under sections 38(6) or 38(7) of the *Environmental Protection Act 1986* is responsible for the implementation of the proposal.
- 2-2 The proponent shall notify the Chief Executive Officer of the Office of the Environmental Protection Authority of any change of the name and address of the proponent for the serving of notices or other correspondence within 30 days of such change.

3 Time Limit of Authorisation

- 3-1 The authorisation to implement the proposal provided for in this statement shall lapse and be void five years after the date of this statement if the proposal to which this statement relates is not substantially commenced.
- 3-2 The proponent shall provide the Chief Executive Officer of the Office of the Environmental Protection Authority with written evidence which demonstrates that the proposal has substantially commenced on or before the expiration of five years from the date of this statement.

4 Compliance Reporting

- 4-1 The proponent shall prepare and maintain a compliance assessment plan to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority.
- The proponent shall submit to the Chief Executive Officer of the Office of the Environmental Protection Authority the compliance assessment plan required by condition 4-1 at least six months prior to the first compliance report required by condition 4-6, or prior to ground disturbing activities, whichever is sooner. The compliance assessment plan shall indicate:
 - 1. the frequency of compliance reporting;
 - 2. the approach and timing of compliance assessments;
 - 3. the retention of compliance assessments;
 - 4. the method of reporting of potential non-compliances and corrective actions taken;
 - 5. the table of contents of compliance assessment reports; and
 - 6. public availability of compliance assessment reports.
- 4-3 The proponent shall assess compliance with conditions in accordance with the compliance assessment plan required by condition 4-1.

- 4-4 The proponent shall retain reports of all compliance assessments described in the compliance assessment plan required by condition 4-1 and shall make those reports available when requested by the Chief Executive Officer of the Office of the Environmental Protection Authority.
- 4-5 The proponent shall advise the Chief Executive Officer of the Office of the Environmental Protection Authority of any potential non-compliance within seven days of that non-compliance being known.
- The proponent shall submit to the Chief Executive Officer of the Office of the Environmental Protection Authority the first compliance assessment report fifteen months from the date of issue of this Statement addressing the twelve month period from the date of issue of this Statement and then annually from the date of submission of the first compliance assessment report. The compliance assessment report shall:
 - 1. be endorsed by the proponent's Chief Executive Officer or a person, approved in writing by the Chief Executive Officer of the Office of the Environmental Protection Authority, delegated to sign on the Chief Executive Officer's behalf:
 - 2. include a statement as to whether the proponent has complied with the conditions;
 - 3. identify all potential non-compliances and describe corrective and preventative actions taken;
 - 4. be made publicly available in accordance with the approved compliance assessment plan; and
 - 5. indicate any proposed changes to the compliance assessment plan required by condition 4-1.

5 Flora

- 5-1 The proponent shall ensure that construction of the infrastructure and implementation and operation of the proposal does not cause the loss of Declared Rare Flora, Priority 1 Flora and Priority 2 Flora unless otherwise approved by the Chief Executive Officer of the Office of the Environmental Protection Authority on advice of the Department of Environment and Conservation.
- 5-2 Prior to ground disturbing activities the proponent shall undertake targeted surveys of the area proposed for water conveyance infrastructure in accordance with Guidance Statement 51 Terrestrial Flora and Vegetation Surveys for Environmental Impact Assessment in Western Australia to identify the locations of any Declared Rare Flora, Priority 1 Flora and Priority 2 Flora species.

5-3 The proponent shall record and provide the Australian Map Grid co-ordinates and population details for each occurrence of Declared Rare Flora, Priority 1 Flora and Priority 2 Flora species to the Chief Executive Officer of the Environmental Protection Authority and the Chief Executive Officer of the Department of Environment and Conservation within three months of completion of the surveys required by condition 5-2.

6 Groundwater Mounding

- 6-1 Subject to meeting the requirements of condition 8-1 the proponent shall manage the injection of surplus water to ensure that mounding of the groundwater level within the impact zones but outside the exclusion area, as delineated by Australian Map Grid co-ordinates provided in Schedule 2 and Schedule 3 does not result in groundwater levels rising within 2 metres of the surface, unless the prior written authorisation of the Chief Executive Officer of the Office of the Environmental Protection Authority has been received.
- 6-2 To verify that the requirements of condition 6-1 are being met the proponent shall:
 - 1. undertake baseline monitoring of the groundwater levels at locations determined in consultation with the Department of Water and the Department of Environment and Conservation; and
 - 2. monitor groundwater levels monthly at a minimum at the locations identified in condition 6-2 (1).
- 6-3 The proponent shall submit annually the results of monitoring required by condition 6-2 to the Chief Executive Officer of the Office of the Environmental Protection Authority.
- In the event that the monitoring required by condition 6-2 indicates that the requirements of condition 6-1 are not being met, the proponent shall:
 - 1. report such findings to the Chief Executive Officer of the Office of the Environmental Protection Authority within 7 days of an unacceptable change in water levels being identified;
 - 2. provide evidence which allows determination of the root cause of the unacceptable change in water levels within 21 days of an unacceptable change in water levels being identified; and
 - if determined to be a result of water injection, state the actions and associated timelines proposed to remediate the groundwater levels within 21 days of an unacceptable change in water levels being identified.
- 6-5 The proponent shall on approval of the Chief Executive Officer of the Office of the Environmental Protection Authority, in consultation with the Department of Water and the Department of Environment and Conservation,

implement the actions identified in condition 6-4 (3) and continue to implement such actions until the Chief Executive Officer of the Office of the Environmental Protection Authority determines that the remedial actions may cease.

6-6 The proponent shall make the monitoring reports required by condition 6-2 publicly available in a manner approved by the Chief Executive Officer of the Office of the Environmental Protection Authority.

7 Fortescue Marsh

- 7-1 The proponent shall manage the injection of surplus water to ensure that groundwater levels do not rise more than 1.5 metres at MB1 and 1 metre at MB2, MB3 and MB4 from the baseline groundwater level.
- 7-2 To verify that the requirements of condition 7-1 are being met the proponent shall, to the requirements of the Chief Executive Officer of the Office of the Environmental Protection Authority:
 - 1. undertake baseline monitoring at MB1, MB2, MB3 and MB4. Locations MB1, MB2, MB3 and MB4 are identified in Table 1 of Schedule 4;
 - 2. establish trigger groundwater levels at locations identified in condition 7-2(1) having regard for seasonal variation; and
 - 3. monitor groundwater levels monthly at a minimum at locations identified in condition 7-2(1).
- 7-3 The proponent shall submit annually the results of monitoring required by condition 7-2 to the Chief Executive Officer of the Office of the Environmental Protection Authority.
- 7-4 In the event that the monitoring required by condition 7-2 indicates that the requirements of condition 7-1 are not being met, the proponent shall:
 - report such findings to the Chief Executive Officer of the Office of the Environmental Protection Authority within 21 days of any unacceptable change in water levels as required by condition 7-1 being identified;
 - 2. provide evidence which allows determination of the root cause of the unacceptable change in water levels; and
 - 3. if determined to be a result of water injection, state the actions and associated timelines proposed to remediate the groundwater levels.
- 7-5 The proponent shall on approval of the Chief Executive Officer of the Office of the Environmental Protection Authority, implement the actions identified in condition 7-4 (3) and continue to implement such actions until the Chief Executive Officer of the Office of the Environmental Protection Authority determines that the remedial actions may cease.

7-6 The proponent shall make the monitoring reports required by condition 7-3 publicly available in a manner approved by the Chief Executive Officer of the Office of the Environmental Protection Authority.

8 Vegetation Monitoring

- 8-1 The proponent shall manage groundwater abstraction and disposal (dewatering and injection) for the project in a manner that ensures:
 - 1. there is no adverse impact on native vegetation communities attributable to the project outside the predicted impact areas; and
 - 2. within the proposed impact areas there is no mortality of keystone plant species or significant changes in habitat characteristics attributable to the project.
- 8-2 Prior to the reinjection of surplus water and in consultation with the Department of Environment and Conservation, the proponent shall prepare a Vegetation Health Monitoring and Management Plan for the project area to the requirements of the Chief Executive Officer of the Office of the Environmental Protection Authority to verify and ensure that the requirements of condition 8-1 shall be met.
- 8-3 The plan required by condition 8-2 shall include the following:
 - identification of keystone plant species and habitat characteristics and limits of acceptable change in health and/or condition of these to be used as the basis for monitoring;
 - locations for predicted impact and reference monitoring sites (outside the predicted impact areas) for baseline and ongoing monitoring, with sites selected based on scientific rationale and to the satisfaction of the Department of Environment and Conservation;
 - results of baseline monitoring for vegetation health, species composition and habitat characteristics at both predicted impact and reference monitoring sites and groundwater levels and groundwater quality at agreed sites in proximity to the vegetation monitoring sites;
 - specifications for the monitoring program for vegetation health, species composition and habitat characteristics, including trigger levels for additional management actions to prevent further impacts and ensure compliance with condition 8-1; and
 - 5. specific management and contingency actions beyond reporting or initiating assessment.
- 8-4 The monitoring is to be carried out according to a method and schedule determined prior to the injection of surplus water to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection

Authority, and is to be carried out until such time as the Chief Executive Officer of the Office of the Environmental Protection Authority determines on advice from the Department of Environment and Conservation that monitoring may cease.

- 8-5 In the event that monitoring required by condition 8-3 indicates an exceedance of trigger levels determined as a result of the implementation of the groundwater abstraction and disposal (dewatering and injection):
 - 1. the proponent shall report such findings to Chief Executive Officer of the Office of the Environmental Protection Authority within 7 days of the exceedance being identified;
 - the proponent shall provide evidence which allows determination of the cause of the exceedance within 21 days of the exceedance being identified:
 - if determined by the Chief Executive Officer of the Office of the Environmental Protection Authority to be a result of activities undertaken in implementing the proposal, the proponent shall submit actions to be taken to address the exceedance within 21 days of the determination being made to the Chief Executive Officer of the Office of the Environmental Protection Authority; and
 - 4. the proponent shall implement actions to address the exceedance upon approval of the Chief Executive Officer of the Office of the Environmental Protection Authority and shall continue until such time the Chief Executive Officer of the Office of the Environmental Protection Authority determines that the remedial actions may cease.
- 8-6 The proponent shall implement the Vegetation Health Monitoring and Management Plan required by condition 8-2.
- 8-7 The proponent shall make the Vegetation Health Monitoring and Management Plan required by condition 8-2 publicly available in a manner approved by the Chief Executive Officer of the Office of the Environmental Protection Authority.

9 Removal of fauna from open trenches

9-1 The proponent shall ensure that open trenches associated with construction of the pipelines are cleared of trapped fauna by fauna-rescue personnel twice daily at a minimum. Details of all fauna recovered shall be recorded, consistent with condition 9-5. The first daily clearing shall take place by foot no later than three hours after sunrise and shall be repeated between the hours of 3:00 pm and 6:00 pm. The open trenches shall also be cleared by fauna-rescue personnel on foot, and fauna details recorded, by fauna-rescue personnel no more than one hour prior to backfilling of trenches.

Note: "fauna-rescue personnel" means employees of the proponent whose responsibility it is to walk the open trench to recover and record fauna found within the trench.

- 9-2 The fauna-rescue personnel shall obtain the appropriate licenses as required for fauna rescue under the *Wildlife Conservation Act 1950* and be trained in the following:
 - 1. fauna identification, capture and handling (including specially protected fauna and venomous snakes likely to occur in the area);
 - 2. identification of tracks, scats, burrows and nests of conservation-significant species;
 - 3. fauna vouchering (of deceased animals);
 - 4. assessing injured fauna for suitability for release, rehabilitation or euthanasia:
 - 5. familiarity with the ecology of the species which may be encountered in order to be able to appropriately translocate fauna encountered; and
 - 6. performing euthanasia.
- 9-3 The length of open trench at the conclusion of each day shall not exceed a length capable of being inspected on foot and cleared by the available fauna-clearing personnel within the times required as set out in condition 9-1 and shall remain open no longer than 90 days without prior approval of the Chief Executive Officer of the Office of the Environmental Protection Authority.
- 9-4 Egress points and/or fauna refuges providing suitable shelter from the sun and predators for trapped fauna are to be placed in the trench at intervals not exceeding 50 metres.
- 9-5 The proponent shall submit a report on fauna management within 14 days of each calendar month during construction of the pipeline trench and a final report covering the entire pipeline construction period within 21 days of the completion of pipeline construction. The report shall include the following:
 - 1. details on when sections of the trench (or the entirely thereof) were opened and closed;
 - 2. details of all fauna inspections;
 - 3. the number and type of fauna cleared from trenches;
 - 4. fauna mortalities; and
 - 5. all actions taken.

9-6 The report required by condition 9-5 shall be provided to the Chief Executive Officer of the Office of the Environmental Protection Authority and the Department of Environment and Conservation and shall be made publicly available in a manner approved by the Chief Executive Officer of the Office of the Environmental Protection Authority.

10 Reinjection impacts to other mines

- 10-1 The proponent shall manage the reinjection of surplus water to ensure that it does not cause a significant increase in dewatering requirements at other non-proponent approved mining operations.
- To verify that the requirements of condition 10-1 are being met the proponent shall prepare a Stakeholder Consultation Reinjection Management Plan, to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority prior to groundwater injection into the eastern brackish injection zone, as delineated by Australian Map Grid co-ordinates provided in Table 2 of Schedule 4, that includes the following:
 - 1. potential issues resulting from the reinjection of the surplus water on other non-proponent mining operations, in consultation with the proponent of those affected mines, and proposed outcomes to ensure compliance with condition 10-1;
 - 2. strategies, including trigger values, to address the potential issues and achieve the outcomes identified in condition 10-2 (1) in consultation with the proponent of any potentially affected mines;
 - 3. detailed monitoring program to demonstrate that condition 10-2(2) is being met; and
 - 4. specific management and contingency actions.
- 10-3 The monitoring as required by condition 10-2(3) is to be carried out until such time as the Chief Executive Officer of the Office of the Environmental Protection Authority determines that monitoring may cease.
- 10-4 In the event that monitoring required by condition 10-2(3) indicates an exceedance of trigger levels defined by condition 10-2(2):
 - the proponent shall report such findings to Chief Executive Officer of the Office of the Environmental Protection Authority within 7 days of the exceedance being identified;
 - the proponent shall provide evidence which allows determination of the cause of the exceedance within 21 days of the exceedances being identified;

- if determined by the Chief Executive Officer of the Office of the Environmental Protection Authority to be a result of activities undertaken in implementing the proposal, the proponent shall submit actions to be taken to address the exceedance within 21 days of the determination being made to the Chief Executive Officer of the Office of the Environmental Protection Authority; and
- 4. the proponent shall implement actions to address the exceedance upon approval of the Chief Executive Officer of the Office of the Environmental Protection Authority and shall continue until such time the Chief Executive Officer of the Office of the Environmental Protection Authority determines that the remedial actions may cease.
- 10-5 The proponent shall implement the Stakeholder Consultation Reinjection Management Plan required by condition 10-2.
- 10-6 The proponent shall make the Stakeholder Consultation Reinjection Management Plan required by condition 10-2 publicly available in a manner approved by the Chief Executive Officer of the Office of the Environmental Protection Authority.

Notes

- 1. Where a condition states "on advice of the Office of the Environmental Protection Authority", the Office of the Environmental Protection Authority will provide that advice to the proponent.
- 2. The Minister for Environment will determine any dispute between the proponent and the Office of the Environmental Protection Authority over the fulfilment of the requirements of the conditions.
- 3. The proponent is required to apply for a Works Approval and Licence for this project under the provisions of Part V of the *Environmental Protection Act* 1986.
- 4. Approval granted by the Chief Executive Officer of the Office of the Environmental Protection Authority in relation to any of the above conditions does not negate the requirement for other approvals under other relevant legislation.

HON BILL MARMION MLA MINISTER FOR ENVIRONMENT; WATER

The Proposal (Assessment No. 1873)

The proposal is to increase the dewatering rate up to 50 Gigalitres per annum and the injection of surplus water into two brackish and one saline injection zones at the Christmas Creek Mine.

The location of the various project components is shown in Figure 1.

The main characteristics of the proposal are summarised in Table 1 below. A detailed description of the proposal is provided in sections 1 and 5 of the project's environmental review document, *Christmas Creek Water Management Strategy Environmental Review*, prepared by Fortescue Metals Group, Perth, Western Australia (May 2011).

Table 1: Summary of Key Proposal Characteristics

Element	Description
Project life:	Up to 5 years
Areas disturbed	Up to 600 hectares (of the 10,135.5 approved hectares in Ministerial Statement 707)
Dewatering Rate	Up to 50 Gigalitres per annum
Re-injection Rate	Up to 42.5 Gigalitres per annum

Figures

Figure 1 Location of project components

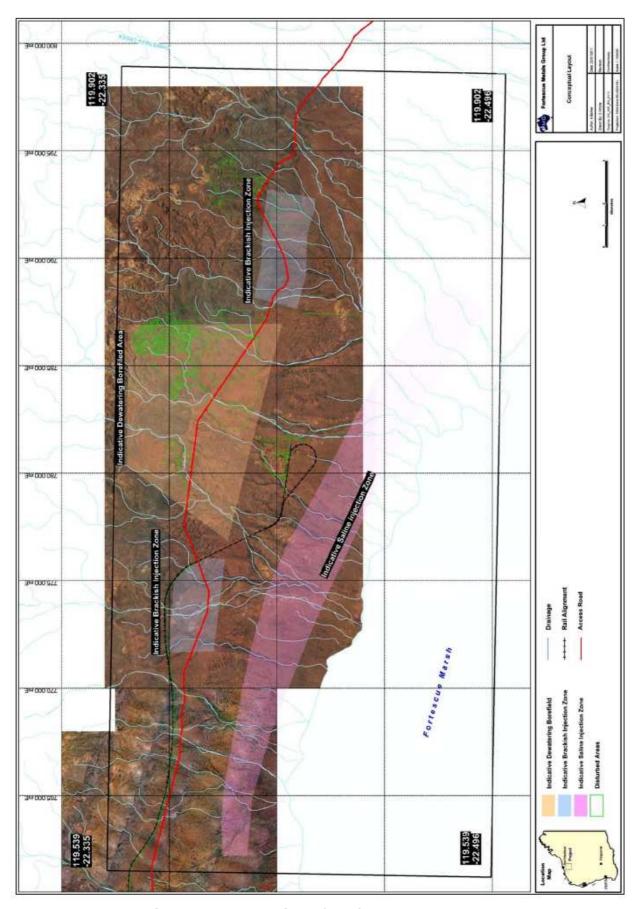


Figure 1: Location of project components

Schedule 2

AMG co-ordinates for predicted impact areas (MGA Zone 50)

Drawdown Impact Area	
Easting Northing	
778208.51	7516800
778400	7516831.28
778600	7516862.58
778800	7516904.27
779000	7516952.11
779145.18	7517000
779200	7517017.52
779400	7517087.98
779600	7517178.73
779638.65	7517200
779800	7517280.33
780000	7517393.74
780011.6	7517400
780200	7517475.23
780400	7517551.58
780554.26	7517600
780600	7517607.79
780800	7517612.48
781000	7517630.45
781200	7517619.69
781315.36	7517600
781400	7517580.72
781600	7517545.93
781800	7517496.52
782000	7517462.75
782200	7517426.61
782400	7517410.01
782461.13	7517400
782600	7517376.41
782800	7517342.14
783000	7517309.14
783200	7517277.13
783400	7517244.3
783600	7517216.19
783729.03	7517200
783800	7517190.97
784000	7517174.09
784200	7517154.71
784400	7517147.48
784600	7517134.15
784800	7517136.63

Mounding Impact Area 1		
Easting	Northing	
	Ĭ	
764349.38	7526600	
765287.05	7526656.75	
766329.41	7526559.03	
767241.46	7526363.58	
767800	7526108.49	
767946.83	7526000	
768000	7525970.67	
768200	7525851.72	
768271.53	7525800	
768400	7525716.59	
768587.62	7525600	
768600	7525593.09	
768800	7525563.63	
769000	7525598.92	
769004.43	7525600	
769200	7525664.95	
769400	7525705.38	
769600	7525693.53	
769800	7525651.72	
770000	7525663.83	
770200	7525714.71	
770380.78	7525800	
770400	7525815.61	
770600	7525904.13	
770800	7525938.39	
771000	7525959.72	
771200	7525963.98	
771400	7525956.49	
771600	7525940.48	
771800	7525884.8	
772000	7525804.65	
772010.8	7525800	
772200	7525715.4	
772369.1	7525600	
772400	7525580.56	
772600	7525414.91	
772616.11	7525400	
772800	7525232.4	
772830.84	7525200	
772991.6	7525000	
773000	7524987.28	
,,,,,,,,	102-1001.20	

Mounding Impact Area 2		
Easting	Northing	
790635.16	7508600	
790800	7508654.58	
791000	7508750.87	
791065.71	7508800	
791200	7508879.08	
791385.5	7509000	
791400	7509010.72	
791600	7509142.16	
791671.15	7509200	
791800	7509301.64	
791925.06	7509400	
792000	7509457.16	
792160.24	7509600	
792200	7509636.74	
792368.28	7509800	
792400	7509831.32	
792563.41	7510000	
792600	7510038.01	
792755.2	7510200	
792800	7510247.7	
792941.97	7510400	
793000	7510461.73	
793122.32	7510600	
793200	7510684.44	
793303.92	7510800	
793400	7510895.96	
793505.57	7511000	
793600	7511085.46	
793721.86	7511200	
793800	7511274.33	
793930.44	7511400	
794000	7511467.2	
794134.85	7511600	
794200	7511663.99	
794338.79	7511800	
794400	7511859.98	
794543.27	7512000	
794600	7512055.32	
794743.46	7512200	
794800	7512258.82	
794935.92	7512400	

1	
785000	7517154.53
785200	7517177.63
785301.77	7517200
785400	7517220.05
785600	7517280.66
785800	7517373.13
785865.2	7517400
786000	7517454.18
786200	7517565.76
786252.54	7517600
786400	7517678.7
786600	7517790.46
786615.19	7517800
786800	7517896.63
786964.35	7518000
787000	7518020.31
787200	7518147.84
787266.2	7518200
787400	7518297.09
787540.84	7518400
787600	7518442.77
787800	7518590.3
787810.15	7518600
787998.6	7518800
788000	7518801.77
788128.62	7519000
788200	7519126.04
788232.87	7519200
788316.12	7519400
788400	7519542.82
788429.47	7519542.02
788538.63	7519800
788600	7519900
788648.18	7520000 7520200
788693.5	
788728.68	7520400
788600	7520558.01
788579.9	7520600
788476.24	7520800
788400	7520939.49
788359.36	7521000
788200	7521189.58
788183.9	7521200
788000	7521340.48
787931	7521400

773168.67 7524600 773146.4 7524400 773120.28 7524200 773145.73 7524000 773182.71 7523698.79 773219.08 7523690 773272.55 7523400 773274.61 7523200 773208.18 752300 773195.96 7522800 773158.06 7522800 77316.64 7522400 773068.39 7522200 773006.3 752200 773006.3 7521983.25 772924.99 7521800 772800 752155.06 772701.61 7521400 772604.6 7521200 772605 752187.68 772520.41 7520800 772400 7520704.36 77230.26 7520434.08 772169.62 7520434.08 772169.62 7520400 771800 7519876.41 771972.04 7520204 771900 7519876.41 771400 7519694.6	773113.8	7524800
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775400 7525375.63 775200 7525289.06 775076.62 7525200 775000 7525144.01 774800 7525039.83 774741.96 7525000 774600 7524890.16 774455.52 7524800 774400 7524770.17 774200 7524643.69 774152.45 7524600 773959.65 7524400 773933.59 752400 773933.59 752300 773937.37 7523600 773983.52 7523400 774000 7523318.81 774019.18 7523200 774000 7523139.41 773941.51 7523000 773957.55 7522400 773957.55 7522400 774123.31 7522200 774123.31 7522200 774123.31 7522200 774123.31 7522200 774123.31 7522200 774120.8 7521000 774161.95 7521000 <td>775600</td> <td>7525481.71</td>	775600	7525481.71	
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775076.62 7525200 775000 7525144.01 774800 7525039.83 774741.96 7525000 774600 7524890.16 774455.52 7524800 774400 7524770.17 774200 7524643.69 774152.45 7524600 774000 7524425.13 773959.65 7524400 773933.59 7524000 773937.37 7523600 773983.52 7523400 774000 7523318.81 774019.18 7523200 774000 7523139.41 773941.51 7523000 773957.55 7522400 774035.41 7522200 774035.41 7522290.49 774035.41 7522200 774176.33 7521800 774192.08 7521800 774193.99 7521000 774156.51 7520800 774161.03 7520600 774124.49 7520000 774128.81 75198	775400	7525375.63	
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784000	7516434.46	
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774200	7519411.94	
774202.33	7519400	
774292.88	7519200	
774400	7519068.67	
774466.5	7519000	
774600	7518887.16	
774698.81	7518800	
774800	7518708.06	
774919.05	7518600	
775000	7518537.15	
775171.48	7518400	
775200	7518356.61	
775306.32	7518200	
775400	7518043.67	
775427.78	7518000	
775600	7517809.38	
775609.22	7517800	
775774.08	7517600	
775800	7517568.16	
775972.54	7517400	
776000	7517376.24	
776200	7517214.84	
776219.87	7517200	
776400	7517078.44	
776561.14	7517000	
776600	7516981.26	
776800	7516902.08	
777000	7516852.04	
777200	7516806.14	
777258.18	7516800	
777400	7516784.74	
777600	7516778.22	
777800	7516778.64	
778000	7516783.16	
778200	7516798.48	
778208.51	7516800	

762800	7526524.93
763000	7526542.13
763200	7526547.34
763400	7526556.3
763600	7526558.23
763800	7526553.22
764000	7526560.76
764200	7526575.06
764349.38	7526600

782800	7516575.34	
782600	7516489.35	
782401.43	7516400	
782400	7516398.01	
782256.66	7516396.01	
782200	7516058.43	
782180.06	7516000	
782125.45	7515800	
782095.38	7515600	
782088.94	7515400	
782080.31	7515200	
782080.31	7515200	
782114.96	7513000	
782114.90	7514600	
782200	7514491.88	
782235.15	7514491.88	
78233.13	7514200	
782393.87	7514200	
782400	7513987.75	
782509.43	7513800	
782600		
782625.05	7513639.95 7513600	
782758.92	7513400	
782800	7513340.41	
782918.79	7513200	
783000	7513117.53	
783131.49	7513000	
783200	7512930.33	
783336.73	7512800	
783400	7512738.27	
783558.59	7512600	
783600	7512562.58	
783800	7512414.23	
783818.57	7512400	
784000	7512259.33	
784082.41	7512200	
784200	7512091.42	
784318.66	7512000	
784400	7511942.2	
784585.69	7511800	
784600	7511789.94	
784800	7511648.28	
784872.56	7511600	
785000	7511513.46	
785194.42	7511400	

785200	7511396.66	
785400	7511287.39	
785600	7511201.06	
785602.19	7511200	
785800	7511088.43	
785949.79	7511000.43	
786000	7510973.28	
786200	7510973.28	
786344.82	7510871.10	
786400	7510773.86	
786600	7510658.68	
786690.37	7510600	
786800	7510525.09	
786997.39	7510400	
787000	7510398.23	
787200	7510283.25	
787341.87	7510200	
787400	7510164.83	
787600	7510034.63	
787650.43	7510000	
787800	7509887.31	
787934.15	7509800	
788000	7509754.62	
788200	7509644.55	
788314.2	7509600	
788400	7509566.25	
788600	7509497.01	
788800	7509433.5	
788921.82	7509400	
789000	7509380.63	
789200	7509308.21	
789400	7509229.24	
789484.06	7509200	
789600	7509151.34	
789800	7509067.38	
789908.55	7509000	
790000	7508922.76	
790130.84	7508800	
790200	7508709.23	
790327.73	7508600	
790400	7508566.64	
790600	7508576.5	

AMG co-ordinates for exclusion area (MGA Zone 50)

Easting	Northing	
763581.4	7521000	
763600	7521042	
763800	7521165	
763873.3	7521200	
764000	7521362	
764045.2	7521400	
764200	7521440	
764400	7521611	
764600	7521569	
764700.6	7521400	
764800	7521271	
765000	7521254	
765068.8	7521200	
765200	7520994	
765400	7521005	
765600	7520844	
765800	7520822	
765997.7	7520853	
766230.3	7520800	
766343.7	7520600	
766400	7520543	
766600	7520511	
766688.8	7520390	
766600	7520380	
766400	7520399	
766000	7520535	
765800	7520556	
765400	7520533	
765000	7520562	
764800	7520568	
764600	7520577	
764400	7520562	
764205.9	7520596	
764000	7520578	
763943.1	7520600	
763800	7520710	
763695.8	7520800	
763614.7	7520861	

Table 1. AMG co-ordinates for monitoring bores (MGA Zone 50)

Monitoring Bore	Easting	Northing
MB1	764,370	7,519,827
MB2	770,239	7,517,777
MB3	776,985	7,514,952
MB4	785,760	7,510,150

Table 2. AMG co-ordinates for eastern brackish injection zone (MGA Zone 50)

Easting	Northing
788185.6	7521036
789816.1	7520703
791479.9	7520637
793181.1	7520416
792765.1	7518237
792257.7	7518287
791113.8	7518607
789183.8	7518673
787686.5	7519073