

Annual review of Remondis Australia Pty Ltd's Standard Environmental Authorisation No. 0375

This review is conducted in accordance with the requirements of section 57(1) of the *Environment Protection Act 1997* and it covers the period **21 May 2014 to 20 May 2015**. Review comments are presented in bold italic type at the end of each clause. Where there are no comments it is taken that ***"No issue has arisen in regard to this section. Compliance satisfactory. No further action required"***.

SCHEDULE 1: GENERAL CONDITIONS

Definitions

For the purposes of this Authorisation the following terms are defined as:

Authority: means the ACT Environment Protection Authority.

Acceptable waste:

- wastes as defined in Tables 1, 2 & 3 of the *"ACT's Environmental Standards: Assessment and Classification of Liquid and Non-liquid Wastes (June 2000)"*.
- material classified by the Authority as inert or solid waste based on the *"ACT's Environmental Standards: Assessment and Classification of Liquid and Non-liquid Wastes (June 2000)"*.
- low level radioactive waste; and
- animal carcasses.

Clean stormwater runoff: means uncontaminated stormwater runoff from surrounding land (including rehabilitated areas of the landfill) diverted around the landfill site.

Leachate: means water which has percolated through or drained from putrescible wastes and is contaminated with substances other than soil particles.

Groundwater: means water occurring or obtained from below the surface of the ground, including water occurring in or obtained from a bore or an aquifer, but not including water occurring in or obtained from any other system for the distribution, reticulation, transportation, storage or treatment of water or waste.

Rainfall event: means any rainfall which leads to the sediment retention dams being filled to greater than twenty per cent of their capacity.

Stormwater runoff: means water which drains off the surface of a catchment area during or after a fall of precipitation.

Suitably Qualified Person: means a person formally trained in Sampling Practices and Procedures.

Site: Mugga Lane Resource Management Centre - Part of Block 2114 Jerrabomberra ACT as detailed in Attachment A.

1. Compliance with Environmental Authorisation

1.1 The Authorisation holder shall:

(a) comply with any authorisation condition immediately where no time for compliance is stated;

(b) notify the Authority in writing within twenty-four (24) hours of becoming aware of:

- i. any event that causes, or is likely to cause, any authorisation condition to be exceeded; or
- ii. any monitoring data that show that a condition of the authorisation has been exceeded.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

2 Activities must be carried out to protect the environment

2.1 All activities carried out on the site shall be carried out in such a manner that adverse impact on the environment is minimised.

2.2 The Authorisation holder shall comply with the requirements of the *National Environment Protection (Movement of Controlled Waste between States and Territories) Measure* in regard to the movement of controlled wastes between States and Territories.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

3 Maintenance of plant and equipment

3.1 All plant and equipment installed or used in or on the site shall be maintained in a safe and good condition and in accordance with manufacturer's recommendations.

3.2 Records of all maintenance and repairs performed on pollution control equipment including drainage systems, interceptors, separators and infrastructure shall be kept on site for a period of two (2) years and made available to the Authority on request.

3.3 "plant and equipment" includes drainage systems, infrastructure and pollution control equipment.

Remondis indicated that all plant & equipment used in connection with the authorised activity are maintained in accordance with manufacture's specifications. Relevant records are stored in the onsite office. Remondis advised that a new leachate pump had been purchased & installed during the review period. Compliance satisfactory. No further action required.

4 Environmental Practices

4.1 The Authorisation holder shall minimise emissions to the environment by:

(a) adopting the practises set out in **Schedule 1 and 2.**

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

5 Compliance with Australian Standards and Industry Codes of Practice

- 5.1 The Authorisation holder shall comply with the provisions of the following Australian Standards, Guidelines and Industry Codes of Practice provided such provisions are not in conflict with the conditions in this Authorisation, and the provisions of any policies made by the Authority.
- AS 1940 - The Storage and Handling of Flammable and Combustible Liquids, Standards Association of Australia.
 - Sampling of bores shall be in accordance with the Groundwater Sampling Guidelines, Victorian Environment Protection Authority, Publication 669 April 2000.

Remondis advised that oil & diesel is stored on site for the refuelling of onsite plant & vehicles. Remondis advised that diesel is stored within a bunded above ground tank, the tank had been inspected by ORS & complies with their requirements. Compliance satisfactory. No further action required.

6 Fuel Storage

- 6.1 Where there are fuel storage tanks on the premises the authorisation holder shall ensure the tanks and associated pipe work are maintained in good condition. The proposed method of demonstrating the integrity of the tanks and associated pipe should be incorporated into the authorisation holders Environment Management Plan required under clause 17 of this schedule.
- 6.2 Further to the provisions of clause 6.1, special requirements are applied to the abandonment of any aboveground or underground tanks and should the need arise, the Authorisation holder agrees to contact the Authority and:

ORS Workcover

Dangerous Substances and Workers Compensation

Telephone: 02 6207 0200

Facsimile: 02 6205 0336

Block B, Level 3

Callam Offices

Easty Street

WODEN ACT 2606

(GPO Box 158 CANBERRA ACT 2601)

See clause 5. Compliance satisfactory. No action required

7 Reporting of environmental harm

- 7.1 In the event that an incident has caused, is causing or is likely to cause material or serious environmental harm, whether the harm occurs on or off the premises, the Authorisation holder, their employee or agent shall report the incident to the Authority immediately after it becomes known to the Authorisation holder or to their employee or agent in accordance with clause 7.2.
- 7.2 The incident shall be reported to the Authority by telephoning Canberra Connect on 132281 during and outside business hours.

- 7.3 The Authorisation holder shall notify the Authority in accordance with clause 7.2 immediately after becoming aware that land is contaminated in such a way as to present, or to be likely to present –
- (a) a significant risk of harm to human health: or
 - (b) a risk of material environmental harm or serious environmental harm.
- 7.4 All incidents and /or contamination of land (including ground and surface waters) shall be reported in writing to the Authority within twenty four hours (24) of the Authorisation holder, their employee or agent becoming aware of any environmental harm in accordance with clause 7.2.
- 7.5 The Authorisation holder, their employee or agent is required to report an incident in writing and include:
- (a) incident or activity that has caused contamination or environmental harm;
 - (b) nature of contamination and chemicals of concern;
 - (c) area affected (on or off site);
 - (d) aspects of the environment affected; and
 - (e) any other relevant information.

Compliance satisfactory. No further action required.

8 Record of pollution complaints

- 8.1 The Authorisation holder shall keep a record of all complaints received by its employees or its agents, in relation to pollution from, or on, the site. This record is to be provided, on request, to the Authority.

Remondis maintains a complaints register which is stored in the onsite office. Compliance satisfactory. No further action required.

9 Record of activity levels

- 9.1 The Authorisation holder shall maintain the following record(s):
- (a) the amount of waste material accepted for disposal.

All movements into the facility are recorded via a weighbridge software program. This program is able to generate various reports on all wastes streams received at the facility. Soil is accepted at the facility for use as day cover. Compliance satisfactory. No further action required.

10 Records to be maintained

10.1 The following records will be maintained and kept by the authorisation holder for a period of five years:

- (a) field sampling record sheets and chain-of-custody forms;
- (b) results of monitoring of soils, groundwater and sediment retention dams;
- (c) reconciliation records for all fuels, oils and hazardous materials and wastes utilised and stored on site;
- (d) waste disposal certificates for any hazardous wastes disposed off-site; and
- (e) keep a legible record of all complaints received by its employees or by its agents in relation to pollution associated with the activities.

Remondis indicated that all relevant records are stored within the onsite office.

Remondis advised that an ISO audit was undertaken during the review period.

Compliance satisfactory. No further action required.

11 Responsible employees

11.1 The Authorisation holder shall authorise at least two senior employees or agents:

- (a) to speak on behalf of the Authorisation holder; and
- (b) to provide any information or document required under this authorisation.

11.2 The Authorisation holder shall inform the Authority of the names and telephone numbers (including after hours numbers) of those persons within five (5) working days of this authorisation coming into force. The details may be provided by facsimile to (02) 6207 6084 or by e-mail to environment.protection@act.gov.au.

11.3 The Authorisation holder shall inform the Authority of any change in the information provided under this condition within five (5) working days of the change.

11.4 Any person nominated by the Authorisation holder to meet the requirements of this condition shall be readily contactable on the person's nominated telephone numbers.

Details are current. Compliance satisfactory. No further action required.

12 Authorisation shall be kept at premises

12.1 A copy of this authorisation shall be kept at the site and shall be available for inspection by any employee or agent of the Authorisation holder working at the premises.

Remondis indicated that a copy of the authorisation is kept in the onsite office.

Compliance satisfactory. No further action required.

13 Waste

13.1 The Authorisation holder shall develop and implement a management system to ensure, as far as practicable, that no disposal of wastes other than those defined as acceptable waste takes place at the site.

13.2 There must be no incineration or burning of any waste at the site.

Remondis advised that have a presence at the tipping face that screens all vehicles upon arrival. Contact is maintained by radio & mobile phones. Small to medium trucks (< 4.5t) and private vehicles are required to use the transfer station where recyclables are removed prior to the waste going to landfill. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

14 Hazardous Materials

14.1 The Authorisation holder shall store and manage hazardous materials in a manner that prevents adverse impacts on the environment. The handling and storage of hazardous materials should be addressed in the Environment Management Plan required under clause 17 of this schedule.

No issue has arisen in regard to this section. Remondis advised that only oils/ fuels are stored on site. Compliance satisfactory. No further action required.

15 Discharge to stormwater

15.1 There should be no discharges to the stormwater system from the premises without prior approval from the Authority. Approved stormwater discharges are only permitted from Sediment Retention Dams.

5 controlled discharges were approved during the review period, the 11/06/2014, 09/09/2014, 27/10/2014, 19/01/2015 and 04/05/2015. Compliance satisfactory. No further action required.

16 New designs and innovations

16.1 The provisions of this Authorisation are not intended to limit the appropriate use of alternative materials, equipment, designs, or methods because they are not included.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required. Remondis advised that the wheel wash has been commissioned and is operating.

17 Environment Management Plan

17.1 The authorisation holder shall prepare and submit an Environment Management Plan (EMP) acceptable to the Authority within three (3) months of the date of this Authorisation.

17.2 The EMP should identify all activities that may have an adverse impact on the environment or the potential to cause environmental harm, and detail the mechanisms employed to prevent or minimise the impact of these activities. If required, the ways in which the conduct of the activity will be altered to minimise or reduce the adverse environmental impact of the activity is to be detailed including a timetable for implementation.

17.3 The EMP, once accepted by the Authority is to be implemented within one year of the date of this authorisation. It will also form the basis for future authorisation conditions and environmental improvements.

17.4 The Authorisation holder shall review the approved EMP after any major improvement or change to the site/ activity or process or every two (2) years from the date of this Authorisation to ensure the document remains current and relevant to activities undertaken on the site. The reviewed EMP shall be submitted to the Authority within three (3) months of any improvements and/or changes or the anniversary date of this Authorisation.

Remondis EMP was endorsed in October 2009. Compliance satisfactory. No further action required.

18 Monitoring Requirements

18.1 The Authorisation holder shall monitor sediment retention Dam 1 for the parameters and frequencies set out in Table 1.

Table 1: Parameters and Frequencies¹

Requirement					
The Authorisation holder shall monitor for the parameters and frequencies set out.					
Parameter ²	Units	Dam 1	Bores	Leachate	Dog Trap Creek/ Dam 1 spillway
pH	pH	Quarterly	Quarterly	6 monthly	Every overflow event.
Temperature	°C	Quarterly	Quarterly	6 monthly	Every overflow event.
Ammonia	mg/L	Quarterly	Quarterly	6 monthly	
Conductivity	µs/cm	Quarterly	Quarterly	6 monthly	Every overflow event.
Suspended Solids	mg/L	Quarterly		6 monthly	Every overflow event.
Dissolved Oxygen	mg/L	Quarterly		6 monthly	Every overflow event.
Total organic carbon	mg/L	Quarterly	Quarterly	6 monthly	
Thermo tolerant coliforms	cfu/100ml		6 monthly		Every overflow event.
Nitrate-nitrogen	mg/L	Quarterly	6 monthly	6 monthly	
Phenolic compounds	µg/L	Quarterly	6 monthly	6 monthly	
Arsenic	µg/L	6 monthly	6 monthly	6 monthly	
Cadmium	µg/L	6 monthly	6 monthly	6 monthly	
Copper	µg/L	6 monthly	6 monthly	6 monthly	
Iron	µg/L	6 monthly	6 monthly	6 monthly	
Lead	µg/L	6 monthly	6 monthly	6 monthly	
Mercury	µg/L	6 monthly	6 monthly	6 monthly	
Chromium	µg/L	6 monthly	6 monthly	6 monthly	
Organochlorine Pesticides Scan	µg/L	6 monthly	6 monthly	6 monthly	
Total Petroleum Hydrocarbons	mg/L	12 monthly	12 monthly	12 monthly	N/A
Polychlorinated biphenyls	µg/L	12 monthly	12 monthly	12 monthly	N/A

1. 12 monthly monitoring shall be carried out in the first quarter of the calendar year.
2. Limits of detection for certain parameters are set out in Table 2.

Table 2: Limits of detection

Parameter	Detection Limit
Arsenic	50µg/L
Cadmium	0.2µg/L
Copper	2µg/L
Lead	1µg/L
Manganese	50µg/L
Mercury	0.1µg/L
Absorbable Organic Halogens	10µg/L
Phenolic compounds	50µg/L
Organochlorine Pesticides scan ¹	0.01µg/L
Polychlorinated biphenyls	0.1µg/L

1 Specifically: Chlordane; DDT; Dieldrin; Aldrin; Endrin; Heptachlor; and Lindane

18.2 The Authorisation holder shall monitor Dog Trap Creek (at the drop structure below clear water pond) and Dam 1 (at the v notch) for the parameters and frequencies set out in Table 1.

18.3 The Authorisation holder shall monitor leachate Dam 2 for the water quality parameters and frequencies in Table 1. The flow of leachate into the leachate dam shall be monitored on a continuous basis.

Remondis has been unable to comply with the above condition due to not having access to the monitoring data which is controlled by ACT NOWaste. Compliance unsatisfactory.

18.4 The Authorisation holder shall monitor the following bore locations (locations are in MGA coordinates) for the parameters and frequencies set out in Table 1, excluding Bore 22 which is monitored quarterly for water depth.

Table 3: Mugga Lane Landfill ground water monitoring bores

Bore	Easting	Northing
Bore 4	695210	6081104
Bore 5	695213	6081107
Bore 6	695210	6081107
Bore 12	694228	6081686
Bore 14	694101	6081775
Bore 15	695066	6081116
Bore 16	694055	6082230
Bore 17	694626	6081070
Bore 18	694736	6081016
Bore 19	694904	6080947
Bore 20	694870	6080899
Bore 21	695077	6081483
Bore 22	693862	6082866

Remondis advised that Bores 18 & 21 have not been monitored. Bore 18 has since been removed. Compliance satisfactory. No further action required.

18.5 The Authorisation holder shall analyse a soil sample from the irrigation zone of leachate dam water annually using the parameters in Table 4 and results provided to the Authority by September each year or sooner.

Table 4 Soil Monitoring

Parameter	Unit
Acidity	pH
Arsenic	mg/kg
Cadmium	mg/kg
Copper	mg/kg
Lead	mg/kg
Mercury	mg/kg
Organochlorine Pesticide ¹	µg/kg
Phenols	mg/kg
Polychlorinated biphenyls	µg/kg

¹ Specifically: Chlordane; DDT; Dieldrin; Aldrin; Endrin; Heptachlor; and Lindane.

19 Water Quality Standards

19.1 The Authorisation holder shall manage water quality in sediment retention Dam 1 with the object of being within the limits for the parameters listed in Table 5.

Table 5 Water Quality Parameters

Parameter	Criteria
Suspended solids	<60mg/L
Dissolved Oxygen	>4.0mg/L
Faecal coliforms	<1000cfu/100ml
pH	6.0 to 9.0

20 Reporting Requirements

- 20.1 The Authorisation holder shall provide monitored data as outlined in this Authorisation to the Authority as soon as the results are available or within 15 days of collecting the samples. The data shall be provided in an electronic form as specified by the Authority. Controlled and uncontrolled discharge volumes shall be provided annually by no later than 31 January for the proceeding calendar year.
- 20.2 The Authorisation holder shall record the following data in relation to fires occurring at the site:
- (a) Time and date when the fire started;
 - (b) Whether the fire was authorised by the licensee, and, if not, the circumstances which ignited the fire;
 - (c) The time and date that the fire burnt out or was extinguished;
 - (d) The location of the fire (e.g. clean timber stockpile, putrescible garbage cell, etc).
 - (e) Prevailing weather conditions at the time of the fire.
 - (f) Observations made in regard to smoke direction and dispersion.
 - (g) The amount of waste that was combusted by the fire.
 - (h) Actions taken to extinguish the fire; and
 - (i) Action taken to prevent a reoccurrence.

The data must be recorded on each day that the fire is burning.

- 20.3 The Authorisation holder or its employee or agent shall notify the occurrence of all fires on the site in accordance with clause 7.2 and 7.4 as soon as practical after becoming aware of the fire.

During the review period Remondis reported a small fire at the tip face on 11/11/2014. Compliance satisfactory. No further action required.

21 Sampling Requirements

- 21.1 All sample collection, analysis and associated paperwork under this Authorisation shall be conducted in accordance with Australian Standard/New Zealand Standard 5667.1:1998, *“Guidance on the design of sampling programs, sampling techniques and the preservation and handling of sample”*, and with the American Public Health Association, American Water Works Association, and the Water Pollution Control Federation *Standard Methods for the Examination of Water and Wastewater*, 18th Edition, 1989, or other standards and methods agreed to by the Authority.
- 21.2 The sample collection shall be undertaken by a suitably qualified person and associated paperwork shall be countersigned by a person present on the site. When required all paperwork shall be made available for inspection by the Authority. Sample analysis of parameters shall be conducted by a person employed as an analyst in any of the following organisations:
- (a) a Government laboratory;
 - (b) an Australian university;
 - (c) a laboratory where Authorisation parameters are accredited by the National Association of Testing Authorities; or
 - (d) a laboratory approved by the Authority.

Remondis advised that sampling is undertaken by ALS. Compliance satisfactory. No further action required.

22 Total Quantity to be Accepted

N/A

SCHEDULE 2

23 Waste Acceptance

- 23.1 The Authorisation holder shall only accept the following material for disposal at the site;
- Wastes as defined in Tables 1, 2 & 3 of the “ACT’s Environmental Standards: Assessment and Classification of Liquid and Non-liquid Wastes (June 2000)”.
 - Material classified by the Authority as inert or solid waste based on the “ACT’s Environmental Standards: Assessment and Classification of Liquid and Non-liquid Wastes (June 2000)”.
 - Low level radioactive waste; and
 - Animal carcasses.
- 23.2 The following material is not permitted for disposal at the site;
- Wastes as defined in Tables 4 & 5 of the “ACT’s Environmental Standards: Assessment and Classification of Liquid and Non-liquid Wastes (June 2000)”.
- 23.3 The Authorisation holder shall not accept waste for disposal at the site other than waste defined in this environmental authorisation as acceptable waste.
- 23.4 The Authorisation holder shall notify the Authority immediately if a load of incorrectly classified waste, which does not meet the definition of acceptable waste, is received at the site. The Authority shall be provided with information on the type of waste, the origins of the waste and the transporter, unless the waste is dumped by an unknown party.
- 23.5 The Authorisation holder shall dispose of waste in the area of the site located within the leachate control system.
- 23.6 The Authorisation holder shall dispose of low level radioactive waste in accordance with the recommendations of the ACT Radiation Council (Radiation Safety Health Protection Service ACT Health).
- 23.7 The Authorisation holder shall dispose of asbestos waste in a properly constructed and managed cell in accordance with waste acceptance procedures approved by the Authority.
- 23.8 The Authorisation holder shall prepare and submit a post closure plan to the Authority within 3 months prior to the last load of waste being accepted at the site.

All waste is accepted within the definition of “acceptable waste” or as approved by the Authority. Disposal of radiation waste is supervised by Radiation Protection Service, Environmental Health. Compliance satisfactory. No further action required.

24 Landfill Operation

24.1 The Authorisation holder shall ensure that exposed earth areas associated with sediment retention dam catchments are seeded, fertilised and mulched or otherwise stabilised as soon as practical, or such earlier time as directed by the Authority. The areas include the catchment zone and work zones including sediment retention dam embankments.

During the site visit it was noticed that works for the new cells continues with ACT NOWaste undertaking a project to top soil Area D of the old landfill. Compliance satisfactory. No further action required.

24.2 The Authorisation holder shall reduce the exposed area of active tipping face at all times to minimise:

- leachate generation potential;
- ground water pollution;
- fire hazard;
- exposure of putrescible and sanitary waste; and
- wind dispersal of litter, including any material that may be returned to receiving waters

24.3 The Authorisation holder shall cover and uncover the compacted waste material on a daily basis using a covering material approved by the Authority. The day cover shall be applied at the end of each operational day and removed prior to the commencement of the next day's operations.

Waste is covered on a daily basis with an intermediate cover (soil) or removable covers. During each subsequent lift this intermediate material is recovered to ensure garbage to garbage contact for efficient leachate management. Compliance satisfactory. No further action required.

24.4 The Authorisation holder shall ensure that the following wastes are disposed of in a dedicated area within the catchment of a leachate dam and immediately covered with appropriate materials;

- animal carcasses;
- processing by-products from meat, poultry and fish; and
- sanitary waste.

Remondis advised that special burials (animal carcasses, radioactive waste etc) are GPS recorded for future reference. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

24.5 The Authorisation holder shall ensure that the total quantity of used, rejected or unwanted tyres (including shredded tyres and tyre pieces) stockpiled at the site does not exceed 50 tonnes.

Remondis advised during the review that the acceptance and storage of tyres is controlled by ACT NOWaste. Used tyres are collected and transported interstate (NSW) by ACT NOWaste contractor, Tyrecycle. Compliance satisfactory. No further action required.

24.6 The Authorisation holder shall ensure that stockpiles of used, rejected or unwanted tyres (including shredded tyres and tyre pieces) are located in a clearly defined area.

24.7 The Authorisation holder must ensure that measures are taken to prevent stockpiles of used, rejected or unwanted tyres (including shredded tyres and tyre pieces) from catching on fire.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

24.8 The Authorisation holder shall ensure that, as far as practicable, litter is retained on the site and clear of dams and water courses.

Remondis continues to use portable litter screens near the active tipping face. There has been an improvement in keeping litter clear of dams and water courses. Compliance satisfactory. No further action required.

24.9 The Authorisation holder shall undertake all reasonable steps to minimise pest, vermin and weed attraction and/or infestations on the site.

24.10 The Authorisation holder shall ensure that adequate fire prevention measures are in place, and ensure that site personnel are able to access fire-fighting equipment and manage fire outbreaks at any part of the site.

24.11 The Authorisation holder shall extinguish fires at the site as soon as possible.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

25 Water Management

25.1 The Authorisation holder shall not discharge any leachate to surface waters outside the site. All leachate shall be retained on site in a leachate dam and be disposed of by way of an efficiently operated irrigation system within the catchment of the leachate dam. Alternately, leachate may be re-injected into landfill waste within the new landfill cell(s) (subject to the submission of a revised Environment Management Plan acceptable to the Authority) or disposed to the sewer system with approval from the appropriate authorities.

Remondis advised that leachate is currently being discharged to sewer but at a very low rate due to restrictions imposed by Icon (ACTEW) Water. Compliance satisfactory. No further action required.

25.2 The Authorisation holder shall operate the water management system to maintain separation between different water collection systems to ensure that;

- all leachate is directed to the leachate interception tank or leachate catchment dam;
- all stormwater runoff contaminated with sediment is directed to sediment retention dams; and
- all clean stormwater runoff is directed around the landfill site.

25.3 The Authorisation holder shall ensure that the infrastructure associated with the diversion, collection, storage, treatment and disposal of leachate, clean stormwater runoff or stormwater runoff contaminated with sediment are maintained in good operating condition.

25.4 The Authorisation holder shall not remove or alter any infrastructure associated with the diversion or collection, storage, treatment and disposal of the leachate or stormwater runoff contaminated with sediment without the approval in writing of the Authority.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

25.5 The Authorisation holder shall take all reasonable steps to maintain the water in the leachate dam at a low level (less than twenty percent design capacity).

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

25.6 The Authorisation holder shall take all reasonable steps to maintain the sediment retention Dam 1 at a low water level (less than twenty percent of design capacity except in times when water for dust suppression is required) in readiness for containing stormwater runoff from further rainfall events.

Management of Dam 1 has been transferred to Bost Pty Ltd during construction of the AC2C and COPE cells at the facility. Currently some water from sediment retention dams is being diverted for reuse by other operators on the site. A mobile pump is currently being used to discharge from Dam 1 due to a release valve issue. There is no inspection hatch with very restricted access to the valve for repairs. Compliance satisfactory. No further action required.

- 25.7 The Authorisation holder shall treat and discharge the contents of the sediment retention dams as soon as practicable with the object of completing the discharge within ten days of the cessation of a rainfall event, or otherwise as directed by the Authority.
- 25.8 The Authorisation holder shall advise the Authority of an intention to discharge from the sediment retention dams, and shall carry out the discharge only after receiving written approval from the Authority to do so. Any release shall be conducted in such a manner as to avoid the discharge of stirred sediment. No discharge is to occur unless samples taken immediately prior to the proposed discharge indicate the suspended solids, dissolved oxygen, faecal coliforms and pH are within the limits set in *Table 5* or as otherwise authorised by the Authority.

During the review period no uncontrolled discharges were reported. Compliance satisfactory. No further action required.

- 25.9 The Authorisation holder shall monitor the total volume of water discharged by controlled releases from all stormwater sedimentation retention dams, as well as the volume of water which overflows from the dams into receiving waters.

See comment 25.6. Compliance satisfactory. No further action required.

- 25.10 The Authorisation holder shall ensure that no discharge from sediment retention dams causes erosion of the dam spillway or the channels or banks leading to a waterway.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

- 25.11 The Authorisation holder shall desilt sediment retention dams and structures when the silt content is more than ten per cent of dam or structure capacity.

- 25.12 The Authorisation holder shall stabilise all embankments and soil stockpiles areas using vegetative or other appropriate means in accordance with the Landfill Management Plan, or as directed by the Authority.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

26 Air Pollution

- 26.1 The Authorisation holder shall undertake all practicable steps to minimise dust, noise and odour emissions from the landfill.
- 26.2 The Authorisation holder shall pave, seal or otherwise treat and maintain all trafficked areas within the site to prevent or minimise the generation of airborne dust.

During the review period, December 2014 to February 2015 ES received numerous odour complaints resulting from remedial works being undertaken at the site by ACT NOWaste. Compliance satisfactory. No further action required.

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Suitably Qualified Person: means a person formally trained in Sampling Practices and Procedures.

Site: Mugga Lane Resource Management Centre - Part of Block 2114 Jerrabomberra ACT as detailed in Attachment A.

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- ii. any monitoring data that show that a condition of the authorisation has been exceeded.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

2 Activities must be carried out to protect the environment

2.1 All activities carried out on the site shall be carried out in such a manner that adverse impact on the environment is minimised.

2.2 The Authorisation holder shall comply with the requirements of the *National Environment Protection (Movement of Controlled Waste between States and Territories) Measure* in regard to the movement of controlled wastes between States and Territories.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

3 Maintenance of plant and equipment

3.1 All plant and equipment installed or used in or on the site shall be maintained in a safe and good condition and in accordance with manufacturer's recommendations.

3.2 Records of all maintenance and repairs performed on pollution control equipment including drainage systems, interceptors, separators and infrastructure shall be kept on site for a period of two (2) years and made available to the Authority on request.

3.3 "plant and equipment" includes drainage systems, infrastructure and pollution control equipment.

Remondis indicated that all plant & equipment used in connection with the authorised activity are maintained in accordance with manufacture's specifications. Relevant records are stored in the regional office, Tralee St. Hume ACT. Remondis advised that another new leachate pump had been purchased & installed during the review period. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

4 Environmental Practices

4.1 The Authorisation holder shall minimise emissions to the environment by:

(a) adopting the practises set out in **Schedule 1 and 2**.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

5 Compliance with Australian Standards and Industry Codes of Practice

- 5.1 The Authorisation holder shall comply with the provisions of the following Australian Standards, Guidelines and Industry Codes of Practice provided such provisions are not in conflict with the conditions in this Authorisation, and the provisions of any policies made by the Authority.
- AS 1940 - The Storage and Handling of Flammable and Combustible Liquids, Standards Association of Australia.
 - Sampling of bores shall be in accordance with the Groundwater Sampling Guidelines, Victorian Environment Protection Authority, Publication 669 April 2000.

Remondis advised that oil & diesel is stored on site for the refuelling of onsite plant & vehicles. Remondis advised that diesel is stored within a bunded above ground tank, the tank had been inspected by ORS & complies with their requirements. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

6 Fuel Storage

- 6.1 Where there are fuel storage tanks on the premises the authorisation holder shall ensure the tanks and associated pipe work are maintained in good condition. The proposed method of demonstrating the integrity of the tanks and associated pipe should be incorporated into the authorisation holders Environment Management Plan required under clause 17 of this schedule.
- 6.2 Further to the provisions of clause 6.1, special requirements are applied to the abandonment of any aboveground or underground tanks and should the need arise, the Authorisation holder agrees to contact the Authority and:

ORS Workcover

Dangerous Substances and Workers Compensation

Telephone: 02 6207 0200

Facsimile: 02 6205 0336

Block B, Level 3

Callam Offices

Easty Street

WODEN ACT 2606

(GPO Box 158 CANBERRA ACT 2601)

See clause 5. No issue has arisen in regard to this section. Compliance satisfactory. No action required

7 Reporting of environmental harm

- 7.1 In the event that an incident has caused, is causing or is likely to cause material or serious environmental harm, whether the harm occurs on or off the premises, the Authorisation holder, their employee or agent shall report the incident to the Authority immediately after it becomes known to the Authorisation holder or to their employee or agent in accordance with clause 7.2.
- 7.2 The incident shall be reported to the Authority by telephoning Canberra Connect on 132281 during and outside business hours.

- 7.3 The Authorisation holder shall notify the Authority in accordance with clause 7.2 immediately after becoming aware that land is contaminated in such a way as to present, or to be likely to present –
- (a) a significant risk of harm to human health; or
 - (b) a risk of material environmental harm or serious environmental harm.
- 7.4 All incidents and /or contamination of land (including ground and surface waters) shall be reported in writing to the Authority within twenty four hours (24) of the Authorisation holder, their employee or agent becoming aware of any environmental harm in accordance with clause 7.2.
- 7.5 The Authorisation holder, their employee or agent is required to report an incident in writing and include:
- (a) incident or activity that has caused contamination or environmental harm;
 - (b) nature of contamination and chemicals of concern;
 - (c) area affected (on or off site);
 - (d) aspects of the environment affected; and
 - (e) any other relevant information.

EQ is not aware of any issues during the review period. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

8 Record of pollution complaints

- 8.1 The Authorisation holder shall keep a record of all complaints received by its employees or its agents, in relation to pollution from, or on, the site. This record is to be provided, on request, to the Authority.

Remondis maintains a complaints register which is stored in the onsite office. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

9 Record of activity levels

- 9.1 The Authorisation holder shall maintain the following record(s):
- (a) the amount of waste material accepted for disposal.

All movements into the facility are recorded via a weighbridge software program. This program is able to generate various reports on all wastes streams received at the facility. Soil is accepted at the facility for reuse as day cover. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

10 Records to be maintained

10.1 The following records will be maintained and kept by the authorisation holder for a period of five years:

- (a) field sampling record sheets and chain-of-custody forms;
- (b) results of monitoring of soils, groundwater and sediment retention dams;
- (c) reconciliation records for all fuels, oils and hazardous materials and wastes utilised and stored on site;
- (d) waste disposal certificates for any hazardous wastes disposed off-site; and
- (e) keep a legible record of all complaints received by its employees or by its agents in relation to pollution associated with the activities.

Remondis indicated that all relevant records are stored within the onsite office. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

11 Responsible employees

11.1 The Authorisation holder shall authorise at least two senior employees or agents:

- (a) to speak on behalf of the Authorisation holder; and
- (b) to provide any information or document required under this authorisation.

11.2 The Authorisation holder shall inform the Authority of the names and telephone numbers (including after hours numbers) of those persons within five (5) working days of this authorisation coming into force. The details may be provided by facsimile to (02) 6207 6084 or by e-mail to environment.protection@act.gov.au.

11.3 The Authorisation holder shall inform the Authority of any change in the information provided under this condition within five (5) working days of the change.

11.4 Any person nominated by the Authorisation holder to meet the requirements of this condition shall be readily contactable on the person's nominated telephone numbers.

Details are current. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

12 Authorisation shall be kept at premises

12.1 A copy of this authorisation shall be kept at the site and shall be available for inspection by any employee or agent of the Authorisation holder working at the premises.

During the review Remondis indicated that a copy of the authorisation is kept in the onsite office and that the regional office had relocated to Alderson Place Hume ACT. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

13 Waste

13.1 The Authorisation holder shall develop and implement a management system to ensure, as far as practicable, that no disposal of wastes other than those defined as acceptable waste takes place at the site.

During the review Remondis advised that have a presence at the tipping face that screens all vehicles upon arrival. Contact is maintained by radio & mobile phones. Small to medium trucks (< 4.5t) and private vehicles are required to use the transfer station where recyclables are removed prior to the waste going to landfill. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

13.2 There must be no incineration or burning of any waste at the site.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

14 Hazardous Materials

14.1 The Authorisation holder shall store and manage hazardous materials in a manner that prevents adverse impacts on the environment. The handling and storage of hazardous materials should be addressed in the Environment Management Plan required under clause 17 of this schedule.

During the review Remondis advised that only small amounts of oils/ fuels are stored on site for use in mowers etc. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

15 Discharge to stormwater

15.1 There should be no discharges to the stormwater system from the premises without prior approval from the Authority. Approved stormwater discharges are only permitted from Sediment Retention Dams.

During the review period Bost carried out approved controlled discharges from Dam 1 on the following dates 02/07/15, 11/08/15 and 14/09/15. Remondis advised that control of Dam 1 was transferred back from Bost to Remondis on 09/11/15. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

16 New designs and innovations

16.1 The provisions of this Authorisation are not intended to limit the appropriate use of alternative materials, equipment, designs, or methods because they are not included.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

17 Environment Management Plan

17.1 The authorisation holder shall prepare and submit an Environment Management Plan (EMP) acceptable to the Authority within three (3) months of the date of this Authorisation.

17.2 The EMP should identify all activities that may have an adverse impact on the environment or the potential to cause environmental harm, and detail the mechanisms employed to prevent or minimise the impact of these activities. If required, the ways in which the conduct of the activity will be altered to minimise or reduce the adverse environmental impact of the activity is to be detailed including a timetable for implementation.

17.3 The EMP, once accepted by the Authority is to be implemented within one year of the date of this authorisation. It will also form the basis for future authorisation conditions and environmental improvements.

17.4 The Authorisation holder shall review the approved EMP after any major improvement or change to the site/ activity or process or every two (2) years from the date of this Authorisation to ensure the document remains current and relevant to activities undertaken on the site. The reviewed EMP shall be submitted to the Authority within three (3) months of any improvements and/or changes or the anniversary date of this Authorisation.

EMP was endorsed in October 2009. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

18 Monitoring Requirements

18.1 The Authorisation holder shall monitor sediment retention Dam 1 for the parameters and frequencies set out in Table 1.

Table 1: Parameters and Frequencies¹

Requirement					
The Authorisation holder shall monitor for the parameters and frequencies set out.					
Parameter ²	Units	Dam 1	Bores	Leachate	Dog Trap Creek/ Dam 1 spillway
pH	pH	Quarterly	Quarterly	6 monthly	Every overflow event.
Temperature	°C	Quarterly	Quarterly	6 monthly	Every overflow event.
Ammonia	mg/L	Quarterly	Quarterly	6 monthly	
Conductivity	µs/cm	Quarterly	Quarterly	6 monthly	Every overflow event.
Suspended Solids	mg/L	Quarterly		6 monthly	Every overflow event.
Dissolved Oxygen	mg/L	Quarterly		6 monthly	Every overflow event.
Total organic carbon	mg/L	Quarterly	Quarterly	6 monthly	
Thermo tolerant coliforms	cfu/100ml		6 monthly		Every overflow event.
Nitrate-nitrogen	mg/L	Quarterly	6 monthly	6 monthly	
Phenolic compounds	µg/L	Quarterly	6 monthly	6 monthly	
Arsenic	µg/L	6 monthly	6 monthly	6 monthly	
Cadmium	µg/L	6 monthly	6 monthly	6 monthly	
Copper	µg/L	6 monthly	6 monthly	6 monthly	
Iron	µg/L	6 monthly	6 monthly	6 monthly	
Lead	µg/L	6 monthly	6 monthly	6 monthly	
Mercury	µg/L	6 monthly	6 monthly	6 monthly	
Chromium	µg/L	6 monthly	6 monthly	6 monthly	
Organochlorine Pesticides Scan	µg/L	6 monthly	6 monthly	6 monthly	
Total Petroleum Hydrocarbons	mg/L	12 monthly	12 monthly	12 monthly	N/A
Polychlorinated biphenyls	µg/L	12 monthly	12 monthly	12 monthly	N/A

1. 12 monthly monitoring shall be carried out in the first quarter of the calendar year.
2. Limits of detection for certain parameters are set out in Table 2.

Table 2: Limits of detection

Parameter	Detection Limit
Arsenic	50µg/L
Cadmium	0.2µg/L
Copper	2µg/L
Lead	1µg/L
Manganese	50µg/L
Mercury	0.1µg/L
Absorbable Organic Halogens	10µg/L
Phenolic compounds	50µg/L
Organochlorine Pesticides scan ¹	0.01µg/L
Polychlorinated biphenyls	0.1µg/L

¹ Specifically: Chlordane; DDT; Dieldrin; Aldrin; Endrin; Heptachlor; and Lindane

18.2 The Authorisation holder shall monitor Dog Trap Creek (at the drop structure below clear water pond) and Dam 1 (at the v notch) for the parameters and frequencies set out in Table 1.

18.3 The Authorisation holder shall monitor leachate Dam 2 for the water quality parameters and frequencies in Table 1. The flow of leachate into the leachate dam shall be monitored on a continuous basis.

During the review Remondis advised was provided access to flow data by CWD in November 2015. Compliance satisfactory. No further action required.

18.4 The Authorisation holder shall monitor the following bore locations (locations are in MGA coordinates) for the parameters and frequencies set out in Table 1, excluding Bore 22 which is monitored quarterly for water depth.

Table 3: Mugga Lane Landfill ground water monitoring bores

Bore	Easting	Northing
Bore 4	695210	6081104
Bore 5	695213	6081107
Bore 6	695210	6081107
Bore 12	694228	6081686
Bore 14	694101	6081775
Bore 15	695066	6081116
Bore 16	694055	6082230
Bore 17	694626	6081070
Bore 18	694736	6081016
Bore 19	694904	6080947
Bore 20	694870	6080899
Bore 21	695077	6081483
Bore 22	693862	6082866

Remondis advised that Bore 18 is kinked & 21 removed. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

18.5 The Authorisation holder shall analyse a soil sample from the irrigation zone of leachate dam water annually using the parameters in Table 4 and results provided to the Authority by September each year or sooner.

Table 4 Soil Monitoring

Parameter	Unit
Acidity	pH
Arsenic	mg/kg
Cadmium	mg/kg
Copper	mg/kg
Lead	mg/kg
Mercury	mg/kg
Organochlorine Pesticide ¹	µg/kg
Phenols	mg/kg
Polychlorinated biphenyls	µg/kg

¹ Specifically: Chlordane; DDT; Dieldrin; Aldrin; Endrin; Heptachlor; and Lindane.

19 Water Quality Standards

19.1 The Authorisation holder shall manage water quality in sediment retention Dam 1 with the object of being within the limits for the parameters listed in Table 5.

Table 5 Water Quality Parameters

Parameter	Criteria
Suspended solids	<60mg/L
Dissolved Oxygen	>4.0mg/L
Faecal coliforms	<1000cfu/100ml
pH	6.0 to 9.0

20 Reporting Requirements

20.1 The Authorisation holder shall provide monitored data as outlined in this Authorisation to the Authority as soon as the results are available or within 15 days of collecting the samples. The data shall be provided in an electronic form as specified by the Authority. Controlled and uncontrolled discharge volumes shall be provided annually by no later than 31 January for the proceeding calendar year.

Data has been provided in a timely manner. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

20.2 The Authorisation holder shall record the following data in relation to fires occurring at the site:

- (a) Time and date when the fire started;
- (b) Whether the fire was authorised by the licensee, and, if not, the circumstances which ignited the fire;
- (c) The time and date that the fire burnt out or was extinguished;
- (d) The location of the fire (e.g. clean timber stockpile, putrescible garbage cell, etc).
- (e) Prevailing weather conditions at the time of the fire.
- (f) Observations made in regard to smoke direction and dispersion.
- (g) The amount of waste that was combusted by the fire.
- (h) Actions taken to extinguish the fire; and
- (i) Action taken to prevent a reoccurrence.

The data must be recorded on each day that the fire is burning.

20.3 The Authorisation holder or its employee or agent shall notify the occurrence of all fires on the site in accordance with clause 7.2 and 7.4 as soon as practical after becoming aware of the fire.

During the review period Remondis reported a small fire at the tip face on 07/10/2015 and with a mattress bin on 27/11/15. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

21 Sampling Requirements

- 21.1 All sample collection, analysis and associated paperwork under this Authorisation shall be conducted in accordance with Australian Standard/New Zealand Standard 5667.1:1998, *“Guidance on the design of sampling programs, sampling techniques and the preservation and handling of sample”*, and with the American Public Health Association, American Water Works Association, and the Water Pollution Control Federation *Standard Methods for the Examination of Water and Wastewater*, 18th Edition, 1989, or other standards and methods agreed to by the Authority.
- 21.2 The sample collection shall be undertaken by a suitably qualified person and associated paperwork shall be countersigned by a person present on the site. When required all paperwork shall be made available for inspection by the Authority. Sample analysis of parameters shall be conducted by a person employed as an analyst in any of the following organisations:
- (a) a Government laboratory;
 - (b) an Australian university;
 - (c) a laboratory where Authorisation parameters are accredited by the National Association of Testing Authorities; or
 - (d) a laboratory approved by the Authority.

Remondis advised that sampling is undertaken by ALS. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

22 Total Quantity to be Accepted

N/A

SCHEDULE 2

23 Waste Acceptance

23.1 The Authorisation holder shall only accept the following material for disposal at the site;

- Wastes as defined in Tables 1, 2 & 3 of the “ACT’s Environmental Standards: Assessment and Classification of Liquid and Non-liquid Wastes (June 2000)”.
- Material classified by the Authority as inert or solid waste based on the “ACT’s Environmental Standards: Assessment and Classification of Liquid and Non-liquid Wastes (June 2000)”.
- Low level radioactive waste; and
- Animal carcasses.

23.2 The following material is not permitted for disposal at the site;

- Wastes as defined in Tables 4 & 5 of the “ACT’s Environmental Standards: Assessment and Classification of Liquid and Non-liquid Wastes (June 2000)”.

23.3 The Authorisation holder shall not accept waste for disposal at the site other than waste defined in this environmental authorisation as acceptable waste.

All waste is accepted within the definition of “acceptable waste” or as approved by the Authority. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

23.4 The Authorisation holder shall notify the Authority immediately if a load of incorrectly classified waste, which does not meet the definition of acceptable waste, is received at the site. The Authority shall be provided with information on the type of waste, the origins of the waste and the transporter, unless the waste is dumped by an unknown party.

23.5 The Authorisation holder shall dispose of waste in the area of the site located within the leachate control system.

23.6 The Authorisation holder shall dispose of low level radioactive waste in accordance with the recommendations of the ACT Radiation Council (Radiation Safety Health Protection Service ACT Health).

Disposal of radiation waste is supervised by Radiation Protection Service, Environmental Health. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

23.7 The Authorisation holder shall dispose of asbestos waste in a properly constructed and managed cell in accordance with waste acceptance procedures approved by the Authority.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

23.8 The Authorisation holder shall prepare and submit a post closure plan to the Authority within 3 months prior to the last load of waste being accepted at the site.

During the review EQ reminded Remondis of the above condition. Submission of the post closure plan is subject to the outcome of the current tender elevation process being conducted by ACT NOWaste. Remondis is to follow up/ submit a post closure plan.

24 Landfill Operation

24.1 The Authorisation holder shall ensure that exposed earth areas associated with sediment retention dam catchments are seeded, fertilised and mulched or otherwise stabilised as soon as practical, or such earlier time as directed by the Authority. The areas include the catchment zone and work zones including sediment retention dam embankments.

During the review it was noted that capping has yet to be undertaken of the South/East extension and V notch. Capping of the areas is subject to funding by ACT NOWaste as part of the contract conditions. During the review Remondis advised that 3,000 m³ of stockpiled clay will be used as the liner for new Dam 6 currently under construction. Compliance unsatisfactory.

24.2 The Authorisation holder shall reduce the exposed area of active tipping face at all times to minimise:

- leachate generation potential;
- ground water pollution;
- fire hazard;
- exposure of putrescible and sanitary waste; and
- wind dispersal of litter, including any material that may be returned to receiving waters

24.3 The Authorisation holder shall cover and uncover the compacted waste material on a daily basis using a covering material approved by the Authority. The day cover shall be applied at the end of each operational day and removed prior to the commencement of the next day's operations.

Waste is covered on a daily basis with an intermediate cover of soil. The use of alternate day cover was halted by EQ during the review period as a direct result of odour complaints received from Tuggeranong residents. During each subsequent lift this intermediate material is recovered to ensure garbage to garbage contact for efficient leachate management. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

24.4 The Authorisation holder shall ensure that the following wastes are disposed of in a dedicated area within the catchment of a leachate dam and immediately covered with appropriate materials;

- animal carcasses;
- processing by-products from meat, poultry and fish; and
- sanitary waste.

During the review Remondis advised that special burials (animal carcasses, radioactive waste etc) are GPS recorded for future reference. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

24.5 The Authorisation holder shall ensure that the total quantity of used, rejected or unwanted tyres (including shredded tyres and tyre pieces) stockpiled at the site does not exceed 50 tonnes.

During the review Remondis advised that the acceptance and storage of tyres is controlled by ACT NOWaste. Used tyres are collected and transported interstate (NSW) by ACT NOWaste contractor, Tyrecycle. ACT NOWaste currently has a stockpile of tyres (with rims on that the recycler will not accept) near the Remondis workshop. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

24.6 The Authorisation holder shall ensure that stockpiles of used, rejected or unwanted tyres (including shredded tyres and tyre pieces) are located in a clearly defined area.

See above comment in regard to stockpile of tyres near workshop.

24.7 The Authorisation holder must ensure that measures are taken to prevent stockpiles of used, rejected or unwanted tyres (including shredded tyres and tyre pieces) from catching on fire.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

24.8 The Authorisation holder shall ensure that, as far as practicable, litter is retained on the site and clear of dams and water courses.

During the review Remondis advised that the use of portable litter screens near the active tipping face continues. Litter picking is undertaken on a daily basis subject to site weather conditions. There has been an improvement in keeping litter clear of dams and water courses during the review period. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

24.9 The Authorisation holder shall undertake all reasonable steps to minimise pest, vermin and weed attraction and/or infestations on the site.

24.10 The Authorisation holder shall ensure that adequate fire prevention measures are in place, and ensure that site personnel are able to access fire-fighting equipment and manage fire outbreaks at any part of the site.

24.11 The Authorisation holder shall extinguish fires at the site as soon as possible.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

25 Water Management

25.1 The Authorisation holder shall not discharge any leachate to surface waters outside the site. All leachate shall be retained on site in a leachate dam and be disposed of by way of an efficiently operated irrigation system within the catchment of the leachate dam. Alternately, leachate may be re-injected into landfill waste within the new landfill cell(s) (subject to the submission of a revised Environment Management Plan acceptable to the Authority) or disposed to the sewer system with approval from the appropriate authorities.

Remondis advised that leachate is currently being discharged to sewer but at a very low rate due to restrictions imposed by Icon Water. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

25.2 The Authorisation holder shall operate the water management system to maintain separation between different water collection systems to ensure that;

- all leachate is directed to the leachate interception tank or leachate catchment dam;
- all stormwater runoff contaminated with sediment is directed to sediment retention dams; and
- all clean stormwater runoff is directed around the landfill site.

25.3 The Authorisation holder shall ensure that the infrastructure associated with the diversion, collection, storage, treatment and disposal of leachate, clean stormwater runoff or stormwater runoff contaminated with sediment are maintained in good operating condition.

During the review period it was noted that capital works project being undertaken on the site continue to impact on the above condition. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

25.4 The Authorisation holder shall not remove or alter any infrastructure associated with the diversion or collection, storage, treatment and disposal of the leachate or stormwater runoff contaminated with sediment without the approval in writing of the Authority.

See above comment. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

25.5 The Authorisation holder shall take all reasonable steps to maintain the water in the leachate dam at a low level (less than twenty percent design capacity).

ACT NOWaste expanded the capacity of the leachate dam without any prior approval of the authorisation holder Remondis or the Authority. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

25.6 The Authorisation holder shall take all reasonable steps to maintain the sediment retention Dam 1 at a low water level (less than twenty percent of design capacity except in times when water for dust suppression is required) in readiness for containing stormwater runoff from further rainfall events.

Controlled discharges were undertaken on the 02/07/2015, 11/08/2015 and 14/09/2015 by Bost Pty Ltd. Bost Pty Ltd transferred the management of Dam 1 back to Remondis on 09/11/15. No discharges after the 09/11/2015. Water from Dam 1 continues to be reused by other operators on the site for dust suppression etc. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

- 25.7 The Authorisation holder shall treat and discharge the contents of the sediment retention dams as soon as practicable with the object of completing the discharge within ten days of the cessation of a rainfall event, or otherwise as directed by the Authority.
- 25.8 The Authorisation holder shall advise the Authority of an intention to discharge from the sediment retention dams, and shall carry out the discharge only after receiving written approval from the Authority to do so. Any release shall be conducted in such a manner as to avoid the discharge of stirred sediment. No discharge is to occur unless samples taken immediately prior to the proposed discharge indicate the suspended solids, dissolved oxygen, faecal coliforms and pH are within the limits set in *Table 5* or as otherwise authorised by the Authority.

During the review period no uncontrolled discharges were reported. No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

- 25.9 The Authorisation holder shall monitor the total volume of water discharged by controlled releases from all stormwater sedimentation retention dams, as well as the volume of water which overflows from the dams into receiving waters.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

- 25.10 The Authorisation holder shall ensure that no discharge from sediment retention dams causes erosion of the dam spillway or the channels or banks leading to a waterway.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

- 25.11 The Authorisation holder shall desilt sediment retention dams and structures when the silt content is more than ten per cent of dam or structure capacity.

- 25.12 The Authorisation holder shall stabilise all embankments and soil stockpiles areas using vegetative or other appropriate means in accordance with the Landfill Management Plan, or as directed by the Authority.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

26 Air Pollution

- 26.1 The Authorisation holder shall undertake all practicable steps to minimise dust, noise and odour emissions from the landfill.

During the review period EQ continued to receive numerous odour complaints from Tuggeranong residents. No defined odour source point could be accurately determined. ACT NOWaste has since engaged an odour expert to undertake odour modelling of the site.

- 26.2 The Authorisation holder shall pave, seal or otherwise treat and maintain all trafficked areas within the site to prevent or minimise the generation of airborne dust.

No issue has arisen in regard to this section. Compliance satisfactory. No further action required.

From: s41(1)
To: [Clayton, Des](#)
Subject: RE: Odour complaint
Date: Friday, 20 November 2015 2:07:21 PM

Des,

The current operation has only one face and it is in the A2 cell, all waste is fresh. There are no open sections of older waste.

The leachate dam is approximately 50% and no odour is coming from it.

Regards

s41(1)

From: Clayton, Des [mailto:Des.Clayton@act.gov.au]
Sent: Friday, 20 November 2015 1:48 PM
To: s41(1)
Subject: Odour complaint
Importance: High

Afternoon s41(1)

Environment Protection has received an odour complaint from a Gilmore resident who has reportedly smelt an unpleasant odour coming from the Mugga Lane Resource Management Centre over the past 24 hours.

Can you both please investigate your current operations at the site and advise.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

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From: [Power, David](#)
To: "Dick S41(1)"
Subject: RE: Offensive odour and odourless toxic emissions from Mugga Lane land fill
Date: Wednesday, 9 December 2015 12:43:00 PM

Good Morning Dick

We are still looking into the issue. In fact we had a meeting with Remondis yesterday on a separate matter but the odour issue was raised. Can you tell me what time you could smell the odour yesterday and please provide contact details of your tradesperson so I can investigate the matter further?

In relation to the monitoring link you sent me the ACT Government does similar monitoring. If you want you can click [here](#) to look at our annual air quality report. However, this monitoring only relates to commonly found pollutants (known as criteria pollutants) and not odour.

Regards

David

From: Dick S41(1)
Sent: Wednesday, 9 December 2015 10:17 AM
To: Power, David
Cc: Medwin, Jonathan; RATTENBURY
Subject: Offensive odour and odourless toxic emissions from Mugga Lane land fill

Hello David,

Reference is made to our discussion of 25 November 2015 regarding the offensive odours (and probably other odourless gases) emanating from the Mugga Lane land fill area that reach residential suburbs to the south and west of the facility.

You said that Remondis who operate the land fill had also reported an offensive odour and you were investigating its source and you would advise me when the outcome was known.

As we are now getting the odour almost daily (depending on atmospheric conditions) I know you have not detected the source so I think you will have to admit there is a serious problem and of course, I want to know what you intend doing about it.

I had a tradesman working here yesterday and he could clearly smell the odour.

I was surprised when you stated that "sniffing the air" was the only method the EPA had to detect the presence of a land fill odours and there were no instruments that could do this. As I explained to you, the "air sniffing" does not extend to the airspace above the layered refuse and this is how the odours reach our suburb (via air currents).

Perhaps you should get assistance from the EPA in Victoria: <http://www.epa.vic.gov.au/our->

work/monitoring-the-environment/monitoring-victorias-air/epa-air-monitoring-networkdavid

A Google search also reveals there are such devices available.

I await your advice.

Regards,

Richard **S41(1)**

[REDACTED]

[REDACTED]

From: Dick s41(1)
To: Power, David
Subject: RE: Offensive odour and odourless toxic emissions from Mugga Lane land fill
Date: Friday, 11 December 2015 8:20:20 AM

Hello David,

The odour on Tuesday morning was at 7.30am.

The tradesperson only gave his first name but I have forgotten it. He works for s41(1) (s41(1) is the principal) and the phone number is s41(1). Email is s41(1). The address (ours) that the service was done at is s41(1).

I wrote to s41(1) on Wednesday to seek the name of his tradesman and a contact number so his "tasting" of the smell could be verified. s41(1) hasn't replied and I get the feeling he doesn't want to get involved which is what a lot of other people say when this issue is discussed.

Last night I went for a walk and while heading East in s41(1) Fadden, just before 9.00pm, s41(1) and I got a very strong whiff of the land tip odour but on walking another 50 metres the smell disappeared.

At 9.04pm I received a text message from s41(1) who lives in s41(1) Fadden to say the smell was back and it was foul. I arrived back at my place s41(1) at 9.05pm but there was no sign of any smell there.

At 7.00am this morning the smell came back (as it usually does at this time of day). I contacted s41(1) (she can be contacted on s41(1)) but she said there was no trace of it at her place (she lives about 200 metres away from me to the North West). This is the nature of the touchdown of the odour when the plume experiences turbulence from trees at the top of Karralika Fire Trail Ridge to our East immediately before the rotor effect dumps it on our suburb and the catabatic flow takes it South (where we got the whiff in McPhaill Place).

I spoke to the residents at s41(1) who were copping the odour very strongly (they are sick of it like me). You can contact s41(1) on s41(1).

I briefly looked at the link you sent me (thank you) covering air quality monitoring carried out in Canberra. I note that odour is not detected in these tests but given that the presence of odours from the land fill proves that odourless emissions are impacting on us also and I want to know all about these around Fadden (not Monash)

I note that when the EIS for stage 5 Mugga Landfill Expansion was prepared in 2013, there was pollute testing carried out around the land fill. I would like to see those results too.

As I send this email at 8.16AM I am aware that the odour has abated probably as the wind is coming from the South East now.

While you are "looking into the issue" I must inform you that the Canberra Times are doing an investigation also, pursuant to their article "Mugga Lane tip expansion plans lodged" published on December 5, 2015.

I await your further advice.

Regards,

Richard **s41(1)**

From: Power, David [mailto:DAVID.POWER@act.gov.au]
Sent: Wednesday, 9 December 2015 12:44 PM
To: Dick **s41(1)**
Subject: RE: Offensive odour and odourless toxic emissions from Mugga Lane land fill

Good Morning Dick

We are still looking into the issue. In fact we had a meeting with Remondis yesterday on a separate matter but the odour issue was raised. Can you tell me what time you could smell the odour yesterday and please provide contact details of your tradesperson so I can investigate the matter further?

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Perhaps you should get assistance from the EPA in Victoria: <http://www.epa.vic.gov.au/our-work/monitoring-the-environment/monitoring-victorias-air/epa-air-monitoring-network> david

A Google search also reveals there are such devices available.

I await your advice.

Regards,

Richard s41(1)

[REDACTED]
[REDACTED]

This email, and any attachments, may be confidential and also privileged. If you are not the intended recipient, please notify the sender and delete all copies of this transmission along with any attachments immediately. You should not copy or use it for any purpose, nor disclose its contents to any other person.

From: [Power, David](#)
To: s41(1)
Subject: RE: POEO Act - Offensive Odour
Date: Monday, 21 December 2015 4:29:00 PM

s41(

Thanks for your time this afternoon. Much appreciated

David

From: s41(1) [mailto:s41(1)@epa.nsw.gov.au]
Sent: Monday, 21 December 2015 4:01 PM
To: Power, David
Subject: POEO Act - Offensive Odour

POEO definition:

129 Emission of odours from premises licensed for scheduled activities

1. The occupier of any premises at which scheduled activities are carried on under the authority conferred by a licence must not cause or permit the emission of any offensive odour from the premises to which the licence applies.
2. It is a defence in proceedings against a person for an offence against this section if the person establishes that:
 - a. the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of the licence directed at minimising the odour, or
 - b. the only persons affected by the odour were persons engaged in the management or operation of the premises.
3. A person who contravenes this section is guilty of an offence.

Offensive Odour is defined as:

offensive odour means an odour:

1. that, by reason of its strength, nature, duration, character or quality, or the time at which it is emitted, or any other circumstances:
2. is harmful to (or is likely to be harmful to) a person who is outside the premises from which it is emitted, or
3. interferes unreasonably with (or is likely to interfere unreasonably with) the comfort or repose of a person who is outside the premises from which it is emitted, or
4. that is of a strength, nature, duration, character or quality prescribed by the regulations or that is emitted at a time, or in other circumstances, prescribed by the regulations.

s41(1)

A/Manager Regional Waste Compliance

Waste & Resource Recovery, NSW Environment Protection Authority

s41(1)

s41(1) [@epa.nsw.gov.au](mailto:s41(1)@epa.nsw.gov.au) www.epa.nsw.gov.au ☐@EPA NSW

Report pollution and environmental incidents on 131 555 (NSW only) or +61 2 9995 5555



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privileged information.

If you are not the intended recipient, please notify the sender and then delete it immediately.

Any views expressed in this email are those of the individual sender except where the sender expressly and with authority states them to be the views of the Environment Protection Authority.

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL

From: [Clayton, Des](#)
To: s41(1)
Cc: [Jones, Greg](#); [Power, David](#)
Subject: FW: smell from tip
Date: Tuesday, 22 December 2015 12:58:00 PM

Hi Justin,

Your below email to Nicole Lawder MLA has been forwarded to Environmental Quality for follow up.

As part of trying to get to the bottom of this issue I was onsite at your address on Monday and Tuesday (14 & 15) of last week and spoke to the guys undertaking the landscaping/ fencing work for you. Impressive stone work by the way!

In particular I spoke at length about the issue to s41(1) who was working at s41(1) stated that he had working at your address for quite some time. That correct?

Given your kind offer to provide more information I was wondering if it may be possible for you to keep a diary over the holiday period and record the following if/ when you notice odour:

- a) Date and time, am/ pm;
- b) Weather conditions; wind direction, temp, cloud cover etc;
- c) Description of odour; and
- d) How the odour effected you.

Your help would be appreciated and if you require any further information on the above please do not hesitate to contact me.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: Jones, Greg
Sent: Tuesday, 22 December 2015 11:13 AM
To: Power, David; Clayton, Des
Subject: FW: smell from tip

From: LAWDER
Sent: Tuesday, 22 December 2015 10:50 AM
To: Jones, Greg
Subject: FW: smell from tip

Passing on another, with permission

Nicole Lawder MLA

Member for Brindabella
ACT Legislative Assembly
Shadow Minister for Housing
Shadow Minister for Environment
Shadow Minister for Families and Community Services

Ph: 02 620 50323

email: LAWDER@parliament.act.gov.au

facebook Like my page: nicolelawderMLA

twitter follow me: @nicolelawder

From: Justin S41(1)
Sent: Monday, 21 December 2015 12:26 PM
To: LAWDER
Subject: Re: smell from tip

Hi Nicole,

Thanks for the reply.

My address is S41(1)

The smell has been a problem again, on and off, in the last 5 days. I think that we only notice it when the wind blows from the east.

I'm glad you are on to this, as it must have a pretty dramatic impact on property values in Fadden at the moment!

Why doesn't the ACT Government put our rubbish in containers at Hume, rail it to the old Woodlawn Mine near Tarrago, where several thousand tonnes of Sydney's rubbish get's dumped every day? With development planning under way at South Jerrabomba, and suburbs like Isaacs and Fadden already located so close to the tip, it seems like time to move our rubbish further away.

There are lots of more suitable sites for large-scale rubbish dumping away from Canberra, and rail is the perfect mode of transport for high-volume, low-value materials. Studies were done several years ago (before the decision was made to start transporting Sydney's rubbish to Woodlawn) and identified locations at old mine sites services by rail, such as Ardlethan's old Tin Mine, which are well suited to dumping rubbish. Instead, Canberra is building a huge pile of rubbish right near our own doorstep.

I'm happy to provide more info on this if you are interested.

Cheers,
Justin

From: [Clayton, Des](#)
To: s41(1)
Cc: [Power, David](#); s41(1)
Subject: Odour compliant
Date: Tuesday, 22 December 2015 10:57:00 AM
Importance: High

s41(1)

Environmental Quality has received an odour complaint from a resident in Fadden stating “that it is coming from the tip”. Therefore as discussed with Dave yesterday Environmental Quality require the following information from Remondis Australia Pty Ltd in order to provide a detailed response:

- a) Meteorological conditions at the site for the past 48 hours;
- b) Time and date stamped photographs of the active tip face including photographs showing intermediate and daily cover;
- c) Details of any projects currently being undertaken by third parties that may impact on the generation of odour;
- d) Details of any measures taken or proposed to be taken to deal with odour generation;
- e) The current level of the leachate dam.

If you could please provide a written response within 24 hours of the date and time of this email.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT
Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box
158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: [Power, David](#)
To: [Jones, Greg](#)
Subject: RE: Fadden/Macarthur Tip smell - Invitation to view
Date: Tuesday, 22 December 2015 11:32:00 AM

Hi Greg

Just spoke to s41(1) and he will continue to keep a diary. I have indicated that for all future complaints, including his most recent complaint, we'll e-mail Remondis to get baseline information from them such as met conditions, onsite works, systems failures, photos of the tip face (date and time stamp) etc. This should enable us to put together a more detail picture. However as discussed yesterday it is not practical for the landfill to not generate some form of odour which under certain atmospheric conditions may be able to be smelt in nearby residential areas. Our investigations to date have indicated that Remondis are operating in accordance with their EA. I'm going to try and go out tomorrow to have a look to confirm this and look at some other works being undertaken by ACT NoWaste.

Regards

David

From: Jones, Greg
Sent: Monday, 21 December 2015 8:16 PM
To: Power, David
Subject: Fwd: Fadden/Macarthur Tip smell - Invitation to view

Hi Dave

Could you please follow up again and talk to Dick about his complaint. Even if it is reinforcing what he has recently been told about keeping a diary.

I note there is an easterly wind tonight and the smell has come back. Is this area near the Fadden ponds? (I am not that familiar with the area).

I'll talk to Canberra Connect about how they forward calls through.

Regards

Greg

Sent from my iPad

Begin forwarded message:

From: Nicole Lawder <nicolelawder@gmail.com>
Date: 21 December 2015 at 6:49:40 PM AEDT

To: <Greg.jones@act.gov.au>

Subject: Fwd: Fadden/Macarthur Tip smell - Invitation to view

Hi Greg please see below - as I mentioned to you this morning people are getting different responses when they call Access Canberra. Could you follow up as a matter of urgency.

Regards Nicole Lawder MLA

Ps sorry my ACT parliament email does not appear to be working at present

----- Forwarded message -----

From: Nicole Lawder <nicolelawder@gmail.com>

Date: Monday, 21 December 2015

Subject: RE: Fadden/Macarthur Tip smell - Invitation to view

To: Dick s41(1) s41(1)

Thanks Dick that's good to know. I spoke to the boss of Access Canberra today and I told him something similar ie that people are not being put through to EPA and he assured me they would be! I will call him now to complain. His name is Greg Jones next time you call try using his name! Cheers Nicole

On Monday, 21 December 2015, Dick s41(1) <s41(1)> wrote:

Hi Nicole,

The smell (like fermented vomit) came again half an hour ago and is still here.

I complained to Canberra Connect on 132281 and she (Katrina) took details for ACT NoWaste (the complaints are supposed to go to EPA). This needs to be clarified. She also didn't ask any questions about the smell or my address which is totally different to what I WAS ASKED Saturday morning.

They don't give a stuff, do they?

Regards,

Dick

From: Nicole Lawder (via Google My Maps) [<mailto:nicolelawder@gmail.com>]

Sent: Monday, 21 December 2015 12:53 PM

To: s41(1)

Subject: Fadden/Macarthur Tip smell - Invitation to view

Nicole Lawder has invited you to **view** the following map:



[Fadden/Macarthur Tip smell](#)



I have had a number of complaints, I have added addresses where I have them and have gone back to many others to ask them to give me their address. It is quite widespread ie not localised. Please do not share.

regards, Nicole

[Open](#)

Google My Maps is an easy-to-use map app for collaboratively authoring, maintaining or making decisions around maps.



From: [Clayton, Des](#)
To: [Hagan, Scott](#); [Power, David](#)
Subject: RE: Odour complaints
Date: Wednesday, 23 December 2015 8:22:00 AM

Thanks Scott,

We are aware of what the NSW EPA procedure is, we have been discussing the issue with them all week! It's been escalated at our end and we have been told to look into it.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: Hagan, Scott
Sent: Wednesday, 23 December 2015 8:20 AM
To: Clayton, Des; Power, David
Subject: RE: Odour complaints

Hi Des,

I notice in the emails (attached) the heading is (FW: Mugga Lane Tip Smell – Is it affecting you again?) - obviously someone is trying to stir up support.

Anyway, see below – answers in red. I'm waiting to have this information confirmed by both GHD and Remondis.

Just some background information. When I was operating the landfills in Sydney, there was significant odour issues. The NSW EPA, Dept Health and WSN developed a monitoring program whereby landfill managers/environmental officers had their sense of smell calibrated and accredited to detect defined levels of odour. The calibration was completed at Stephenson environmental laboratories in Silverwater. The community respondents making the odour complaints accepted this monitoring strategy and it helped alleviate the "agro".

Regards,

Scott Hagan
Capital Works, Design and Delivery (CWDD)

From: Clayton, Des
Sent: Wednesday, 23 December 2015 7:55 AM
To: Haraldson, Anthony; Hagan, Scott
Cc: Trushell, Michael
Subject: Odour complaints
Importance: High

Anthony/ Scott,

Environmental Quality (EQ) is currently investigating odour complaints from residents in Fadden and McArthur. Several of these complaints have been forwarded to EQ by Nicole Lawder MLA. I attached the emails for your information. EQ has contacted all complainants and will be providing a detailed response to them.

EQ is aware that ACT NOWaste is currently undertaking a capital works project installing the leachate pipe from the new AC cell around the south east extension batter to the leachate dam and has been advised that in doing so has exposed aged material placed there during the modification works earlier in the year.

In order for EQ to gain a complete and detailed overview of site operations at the MLRMC and provide a detailed response/briefing could please advise the following:

- Date the project commenced; **Monday 30 Nov**
- Anticipated completion date; **Saturday 19 Dec**
- Mitigation measures ACT NOWaste will be taking over the shut down period; and **The trench was capped 19/12. The site has been secured and protected – Remondis will be operating the site as per normal conditions through-out the Christmas shutdown.**
- Anything else you feel may be relevant. **With the warmer weather, the greenwaste decomposition will be a contributing factor to odour. GHD & Remondis as well as CWDD have been monitoring the Mugga Lane site boundaries as well as along Long Gully Road – no putrescible waste odours have been detected over and above the normal operating conditions for the summer period. Greenwaste/organic odour has been stronger around the main weighbridge area (however this is still onsite within the ML boundaries).**

A written response by COB today is required.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government
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From: [Hagan, Scott](#)
To: [Clayton, Des](#); [Power, David](#)
Subject: RE: Odour complaints
Date: Wednesday, 23 December 2015 8:48:28 AM
Attachments: [RE Mugga odour .msg](#)

Des / David,

I'll see what I can organise. Basically point observations. As no odours have been detected, no formal documentation has been completed. See attached example of what has been completed by Remondis.

My observations are as follows: -

9 Dec – No putrescible odour detected at Mugga Lane Boundaries or along Long Gully Road. Odour detected approx 100m radius downwind of works onsite (wind direction towards the MRF)

11 Dec – No putrescible odours detected at the Mugga Lane Boundaries.

14 Dec – No putrescible odours detected at the Mugga Lane Boundaries –or along Long Gully Road / Monaro Highway

18 Dec – No putrescible odours detected at the Mugga Lane Boundaries or along Long Gully Road / Monaro Highway.

Regards,

Scott Hagan

Capital Works, Design and Delivery (CWDD)

From: Clayton, Des
Sent: Wednesday, 23 December 2015 8:33 AM
To: Hagan, Scott; Power, David
Cc: Haraldson, Anthony; Trushell, Michael
Subject: RE: Odour complaints

Scott,

In response to your the issues raised about odours coming from the green waste you should be aware that Corkhill Bros Sales Pty Ltd undertakes active monitoring of odour at their boundary and EQ has requested to review this data. EQ will also be meeting [s41\(1\)](#) on site this morning.

EQ has also implemented a new procedure where authorisation holders at the site are upon receipt of an odour complaint by EQ are required to respond to provide a response on site operations and conditions within 24 hours. They are also required to submit date and time stamped photos. This procedure has been adopted from NSW EPA procedures.

How has GHD, Remondis as well as CWDD been undertaking the monitoring and is it possible to have copies of the data and or observations forwarded to EQ for review?

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate

Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
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Importance: High

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Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate

Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au

Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government

Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: s41(1)
To: Hagan.Scott
Cc: s41(1)
Subject: RE: Mugga odour
Date: Wednesday, 9 December 2015 2:26:05 PM

Scott,

There is no noticeable odour around the site, accept around 100 meter down wind of the open trench area towards the MRF. But you would have to expect this when ever you dig any trench in waste around 1 meter deep.

The survey is been completed at the moment and the back filling will start as soon as the is done.

s41(1)

Operations Manager ACT

REMONDIS Australia Pty Ltd
Waste Solutions

Mugga Lane, Symonston ACT 2609, Australia PO Box 9, Fyshwick ACT 2609, Australia

Phone: s41(1)

National Service Line: 13 73 73

Fax: s41(1)

www.remondis.com.au

s41(1)

-----Original Message-----

From: Hagan, Scott [<mailto:Scott.Hagan@act.gov.au>]

Sent: Wednesday, 9 December 2015 12:57 PM

To: s41(1)

Subject: RE: Mugga odour

Is there any odours coming from these works

Regards,

Scott Hagan
Capital Works, Design and Delivery (CWDD)

-----Original Message-----

From: s41(1)

Sent: Wednesday, 9 December 2015 12:56 PM

To: Hagan, Scott

Subject: RE: Mugga odour

Scott,

Yes the pipe trench has started with the 400mm soil layer starting after lunch.

Regards

s41(1)

-----Original Message-----

From: Hagan, Scott [<mailto:Scott.Hagan@act.gov.au>]

Sent: Wednesday, 9 December 2015 12:44 PM

To: S41(1)
Subject: FW: Mugga odour

FYI - see below

Regards,

Scott Hagan
Capital Works, Design and Delivery (CWDD)

-----Original Message-----

From: Roberts, David
Sent: Wednesday, 9 December 2015 12:39 PM
To: Hagan, Scott
Cc: Amorim, Alvaro
Subject: FW: Mugga odour

Hi Scott,

There is a strong waste odour at MLRMC, probably coming from the excavation works for the AC leachate pipes. Can you please tell me when the exposed (and stockpiled) waste will be re-spread and covered?

Thanks,

David

David Roberts
Manager Assets and Capital Works Section ACT NoWaste
P|02 6205 2672 M|S41(1) F|02 6207 6255

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From: [Jones, Greg](#)
To: [Trushell, Michael](#)
Cc: [Barbaro, Fiona](#); [Pitt, Leesha](#); [Power, David](#)
Subject: FW: Emailing: P1020325, P1020333, P1020336, P1020339
Date: Wednesday, 23 December 2015 4:36:41 PM
Attachments: [P1020325.jpg](#)
[P1020333.jpg](#)
[P1020336.jpg](#)
[P1020339.jpg](#)

Hi Michael

For your information, and further to our discussion this morning about the odour in Fadden, following a visit to the Mugga Tip this morning by the EPA, it was observed that a large area of an old waste cell was exposed for the insertion of a new leachate transfer pipe. Due to the noticeable odour at the time, the EPA has advised Remondis to cover the old rubbish material as soon as possible.

While Remondis was undertaking the work, they advised that it was separate to their operational contract and was as instructed by NOWaste. Not sure how this fits in with their EA.

A number of photos are attached for your information.

Regards

Greg

-----Original Message-----

From: Power, David
Sent: Wednesday, 23 December 2015 3:35 PM
To: Jones, Greg
Subject: Emailing: P1020325, P1020333, P1020336, P1020339

Your message is ready to be sent with the following file or link attachments:

P1020325
P1020333
P1020336
P1020339

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

s41(1)









From: [Clayton, Des](#)
To: [Haraldson, Anthony](#); [Hagan, Scott](#)
Cc: [Trushell, Michael](#)
Subject: Odour complaints
Date: Wednesday, 23 December 2015 7:55:00 AM
Attachments: [FW smell from tip.msg](#)
[FW smell from tip.msg](#)
[FW Mugga Lane Tip Smell - Is it affecting you again.msg](#)
[FW smell from tip.msg](#)
Importance: High

Anthony/ Scott,

Environmental Quality (EQ) is currently investigating odour complaints from residents in Fadden and McArthur. Several of these complaints have been forwarded to EQ by Nicole Lawder MLA. I attached the emails for your information. EQ has contacted all complainants and will be providing a detailed response to them.

EQ is aware that ACT NOWaste is currently undertaking a capital works project installing the leachate pipe from the new AC cell around the south east extension batter to the leachate dam and has been advised that in doing so has exposed aged material placed there during the modification works earlier in the year.

In order for EQ to gain a complete and detailed overview of site operations at the MLRMC and provide a detailed response/briefing could please advise the following:

- Date the project commenced;
- Anticipated completion date;
- Mitigation measures ACT NOWaste will be taking over the shut down period; and
- Anything else you feel may be relevant.

A written response by COB today is required.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: [Jones, Greg](#)
To: [Power, David](#); [Clayton, Des](#)
Subject: FW: smell from tip
Date: Tuesday, 22 December 2015 11:14:05 AM

From: LAWDER
Sent: Tuesday, 22 December 2015 10:54 AM
To: Jones, Greg
Subject: FW: smell from tip

Another, forwarded with permission

Nicole Lawder MLA

Member for Brindabella
ACT Legislative Assembly
Shadow Minister for Housing
Shadow Minister for Environment
Shadow Minister for Families and Community Services

Ph: 02 620 50323
email: LAWDER@parliament.act.gov.au
facebook Like my page: nicolelawderMLA
twitter follow me: @nicolelawder

From: Jan [s41\(1\)](#) [s41\(1\)](#)]
Sent: Monday, 21 December 2015 11:56 PM
To: LAWDER
Subject: RE: smell from tip

Hello Nicole

We live at [s41\(1\)](#) We are adamant the smell is coming from the tip. We will continue to keep a diary of when we notice it although we are away from home a lot. One of our adult children did tell us they smelt it terribly on Saturday morning at around 8am which we put down to the heat on that particular morning. We have had incidences in the past where we have not been able to go outside which was around the last time you addressed this issue several months ago.

Regards

Jan [s41\(1\)](#)

From: [Jones, Greg](#)
To: [Power, David](#); [Clayton, Des](#)
Subject: FW: smell from tip
Date: Tuesday, 22 December 2015 11:13:27 AM

From: LAWDER
Sent: Tuesday, 22 December 2015 10:50 AM
To: Jones, Greg
Subject: FW: smell from tip

Passing on another, with permission

Nicole Lawder MLA

Member for Brindabella
ACT Legislative Assembly
Shadow Minister for Housing
Shadow Minister for Environment
Shadow Minister for Families and Community Services

Ph: 02 620 50323
email: LAWDER@parliament.act.gov.au
facebook Like my page: nicolelawderMLA
twitter follow me: @nicolelawder

From: Justin s41(1)
Sent: Monday, 21 December 2015 12:26 PM
To: LAWDER
Subject: Re: smell from tip

Hi Nicole,

Thanks for the reply.

My address is s41(1).

The smell has been a problem again, on and off, in the last 5 days. I think that we only notice it when the wind blows from the east.

I'm glad you are on to this, as it must have a pretty dramatic impact on property values in Fadden at the moment!

Why doesn't the ACT Government put our rubbish in containers at Hume, rail it to the old Woodlawn Mine near Tarrago, where several thousand tonnes of Sydney's rubbish get's dumped every day? With development planning under way at South Jerrabombra, and suburbs like Isaacs and Fadden already located so close to the tip, it seems like time to move our rubbish further away.

There are lots of more suitable sites for large-scale rubbish dumping away from Canberra, and rail is the perfect mode of transport for high-volume, low-value materials. Studies were done several years ago

(before the decision was made to start transporting Sydney's rubbish to Woodlawn) and identified locations at old mine sites services by rail, such as Ardlethan's old Tin Mine, which are well suited to dumping rubbish. Instead, Canberra is building a huge pile of rubbish right near our own doorstep.

I'm happy to provide more info on this if you are interested.

Cheers,

Justin

From: [Jones, Greg](#)
To: [Power, David](#); [Clayton, Des](#)
Subject: FW: Mugga Lane Tip Smell - Is it affecting you again?
Date: Tuesday, 22 December 2015 11:13:03 AM

From: LAWDER
Sent: Tuesday, 22 December 2015 10:31 AM
To: Jones, Greg
Subject: FW: Mugga Lane Tip Smell - Is it affecting you again?

Another address provided with permission

Nicole Lawder MLA

Member for Brindabella
ACT Legislative Assembly
Shadow Minister for Housing
Shadow Minister for Environment
Shadow Minister for Families and Community Services

Ph: 02 620 50323
email: LAWDER@parliament.act.gov.au
facebook Like my page: nicolelawderMLA
twitter follow me: @nicolelawder

Dear Nicole

Thank you for your email and for following up.

Our address is s41(1).

I was very disappointed to read last week's Canberra times article on this issue and the claims by ACT Government officials that there was no 'evidence' of odour coming from the Mugga Lane tip site. This is completely at odds with our experience over many months.

Their so called sniff test would be laughable if it were not the impact of its failing of the residents they are supposed to serve and whose taxes pay them.

I was also unaware of the proposal to expand the tip site and the opportunity to make public comments. This is my own fault for not paying attention to the local media.

If I had, I would have lodged a submission arguing against expansion without improved and more rigorous permit conditions to control odour as well as the pests attracted to the tip (crows), and for independent testing and verification for these permit conditions. Tip operators should not be left to regulate themselves. Regulators promising to only 'explore alternative testing methods' after the event and after permits have been issued and conditions imposed is as equally

pointless.

Thanks again

Owen

From: [Jones, Greg](#)
To: [Power, David](#); [Clayton, Des](#)
Subject: FW: smell from tip
Date: Tuesday, 22 December 2015 11:12:48 AM

From: LAWDER
Sent: Tuesday, 22 December 2015 10:23 AM
To: Jones, Greg
Subject: FW: smell from tip

Passing on details from people who have agreed for me to do so (rather than them having to complain again) – Shelagh s41

Nicole Lawder MLA

Member for Brindabella
ACT Legislative Assembly
Shadow Minister for Housing
Shadow Minister for Environment
Shadow Minister for Families and Community Services

Ph: 02 620 50323
email: LAWDER@parliament.act.gov.au
facebook Like my page: [nicolelawderMLA](#)
twitter follow me: [@nicolelawder](#)

From: Shelagh s41(1)
Sent: Monday, 21 December 2015 12:21 PM
To: LAWDER
Subject: RE: smell from tip

Nicole, our address is s41(1)

We have only noticed it once or twice first thing in the morning. It's certainly nowhere near as often as it used to be. I agree with the resident in Fadden, it has to be the tip, there can be no other explanation

Shelagh s41

From: [Power, David](#)
To: [Jones, Greg](#)
Subject: RE: Mugga Lane Tip Odour
Date: Wednesday, 23 December 2015 2:26:00 PM

Greg

As discussed this afternoon the recent run of complaints may be due to works being undertaken by ACT NoWaste at the landfill which has resulted in a significant amount of putrescible waste being left exposed from digging a trench through the existing landfill for a new transfer pipe. I have given Remondis a verbal direction to cover this material immediately with a goal of having it covered by COB tomorrow.

Can you please discuss with Mr Trushell as a matter of urgency as it is an ACT NoWaste project.

Photos are [here](#)

Regards

Dave

From: Jones, Greg
Sent: Wednesday, 23 December 2015 12:06 PM
To: Power, David; Clayton, Des
Subject: FW: Mugga Lane Tip Odour

FYI

From: LAWDER
Sent: Wednesday, 23 December 2015 11:22 AM
To: Jones, Greg
Subject: FW: Mugga Lane Tip Odour

Another complaint passed on with permission

Nicole Lawder MLA

Member for Brindabella
ACT Legislative Assembly
Shadow Minister for Housing
Shadow Minister for Environment
Shadow Minister for Families and Community Services

Ph: 02 620 50323
email: LAWDER@parliament.act.gov.au
facebook Like my page: nicolelawderMLA
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From: Nicola **S41(1)**
Sent: Tuesday, 22 December 2015 7:49 AM
To: LAWDER
Subject: Mugga Lane Tip Odour

Hi Nicole,

In response to your request for details of when and where it is happening, I went for a walk

around the Fadden Primary School yesterday around 4.30 pm, and up along the streets behind the pathway on the Fadden Hill side, and the familiar tip smell was there. My partner, s41(1) came home about an hour later and confirmed he smelt it outside our home (s41(1)). Kind regards, Nicola s41(1)

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From: s41(1)
To: Clayton, Des
Cc: Power, David; s41(1)
Subject: RE: Odour compliant
Date: Thursday, 24 December 2015 8:58:34 AM
Attachments: photo.jpg
2146_001.pdf

Des,

- a) Meteorological report from Tuggeranong station attached.
- b) Photos attached. Please notice the amount of cover stockpiled and the size of the face compared to the size of the dozer. Face is very small a present.
- c) One project under way is the works associated with the increase in height of the bund wall of AC cell and the additional leachate pipe line installation due to in adequate design. This work has required the excavation of deposited waste in the South East Extension to different levels. REMONDIS and Simonov main contractors managed by GHD on behalf of ACT NOWaste.
- d) REMONDIS has positioned our deodorising unit on the old landfill near the tanks at the southern corner near the tanks. It is ready to be activated based on wind direction.
- e) Current level of the leachate dam is 17%

Please advise if you require any further details.

Regards

s41(1)

From: Clayton, Des [mailto:Des.Clayton@act.gov.au]
Sent: Tuesday, 22 December 2015 10:58 AM
To: s41(1)
Cc: Power, David; s41(1)
Subject: Odour compliant
Importance: High

s41(1),

Environmental Quality has received an odour complaint from a resident in Fadden stating "that it is coming from the tip". Therefore as discussed with Dave yesterday Environmental Quality require the flowing information from Remondis Australia Pty Ltd in order to provide a detailed response:

- a) Meteorological conditions at the site for the past 48 hours;
- b) Time and date stamped photographs of the active tip face including photographs showing intermediate and daily cover;
- c) Details of any projects currently being undertaken by third parties that may impact on the generation of odour;

- d) Details of any measures taken or proposed to be taken to deal with odour generation;
- e) The current level of the leachate dam.

If you could please provide a written response within 24 hours of the date and time of this email.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT
Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box
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Tuggeranong, Australian Capital Territory December 2015 Daily Weather Observations



Australian Government
Bureau of Meteorology

Date	Day	Temps		Rain mm	Evap mm	Sun hours	Max wind gust			9am					3pm							
		Min	Max				Dirn	Spd km/h	Time local	Temp °C	RH %	Cld eighths	Dirn	Spd km/h	MSLP hPa	Temp °C	RH %	Cld eighths	Dirn	Spd km/h	MSLP hPa	
		°C	°C																			
1	Tu	10.0	33.4	0			WNW	59	11:17	24.4	31		N	15	1009.6	31.1	16		NNW	31	1006.4	
2	We	12.1	22.7	0			SSW	52	16:37	17.0	43		NW	9	1013.0	20.8	26		SE	9	1014.6	
3	Th	6.0	26.5	0			E	37	18:18	14.1	57		SSE	6	1025.8	25.1	29		ENE	9	1021.7	
4	Fr	10.5	29.9	0			E	35	17:12	17.4	55		ENE	6	1024.8	28.5	16		WSW	7	1019.5	
5	Sa	9.1	30.8	0			E	33	17:03	19.1	57		W	7	1021.2	29.7	25		ENE	11	1016.2	
6	Su	10.8	32.4	0			ESE	33	16:05	21.3	42		N	2	1019.4	31.2	24		NNE	9	1014.7	
7	Mo	16.4	26.5	0			NE	26	12:14	19.2	68		S	7	1020.2	26.1	40		NE	9	1017.0	
8	Tu	18.0	27.3	0			WNW	44	12:06	20.5	61			Calm	1016.2	21.9	64		WNW	19	1014.7	
9	We	18.1	29.9	0			NW	43	12:18	22.2	69		WNW	17	1014.7	29.2	35		W	24	1012.1	
10	Th	12.4	30.6	0			W	50	14:56	19.0	66		E	6	1014.2	29.0	22		W	24	1010.0	
11	Fr	10.5	26.3	0			W	65	16:03	23.2	36		W	20	1005.0	25.4	23		NW	26	1003.4	
12	Sa	6.3	26.2	0			ENE	43	17:10	15.0	43		NE	6	1012.9	24.5	18		N	17	1010.3	
13	Su	12.2	27.0	0			NNE	31	12:52	16.8	60		NE	9	1017.3	24.8	27		NW	11	1013.0	
14	Mo	6.4	31.8	0			WSW	35	14:01	18.9	43		N	6	1015.3	30.7	14		NW	20	1011.8	
15	Tu	10.6	30.1	0			ENE	43	20:02	18.9	40			Calm	1014.7	27.3	25		S	13	1012.6	
16	We	13.6	25.1	0			SE	39	16:33	21.7	59		ESE	7	1015.3	19.0	67		ESE	7	1013.8	
17	Th	10.7	29.6	7.4			ENE	26	20:26	17.4	72		WNW	7	1017.7	27.5	35		NNE	9	1014.0	
18	Fr	13.7	33.4	0			NW	33	12:40	22.9	59		N	6	1016.3	31.3	27		NNE	9	1012.5	
19	Sa	15.3	35.7	0			WNW	31	10:05	26.2	46		NE	2	1014.8	34.9	20		NW	11	1011.4	
20	Su	14.9	36.6	0			NNW	56	12:01	26.3	33		NE	2	1012.5	35.4	18		WNW	24	1007.1	
21	Mo	20.0	27.5	0.2			ENE	39	16:07	20.9	79		NNW	9	1014.7	27.1	25		NW	11	1015.0	
22	Tu	14.7		0.2						15.2	55		E	13	1022.8							
Statistics for the first 22 days of December 2015																						
Mean		12.4	29.5							19.9	53			7	1016.3	27.6	28			14	1012.9	
Lowest		6.0	22.7							14.1	31			Calm	1005.0	19.0	14		#	7	1003.4	
Highest		20.0	36.6	7.4			W	65		26.3	79		W	20	1025.8	35.4	67		NNW	31	1021.7	
Total				7.8																		

Observations were drawn from Tuggeranong (Isabella Plains) AWS (station 070339)

IDCJDW2802.201512 Prepared at 23:38 GMT on 21 Dec 2015
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<http://www.bom.gov.au/climate/dwo/IDCJDW0000.pdf>

From: [Hagan, Scott](#)
To: [Clayton, Des](#)
Cc: [Power, David](#); [Dickson, Peter](#); [McHugh, Ben](#)
Subject: FW: Site inspection today
Date: Tuesday, 5 January 2016 2:13:41 PM
Attachments: [IMG_6504.JPG](#)
[IMG_6508.JPG](#)
[IMG_6509.JPG](#)
[IMG_6511.JPG](#)
[IMG_6512.JPG](#)

Hi Des,

See below report on the works from GHD - photos attached.

FYI - I conducted a site inspection yesterday and today both around the landfill / landfill boundaries and around Isaacs/Fadden/Fadden Hills & McArthur.

4/1/16 between 1400 and 1500 - typical putrescible/organics odour within the boundaries around the internal roadways. No odour detected at site boundary along Mugga Lane/Long Gully Road. No putrescible odours detected within the suburbs. Very slight/very minor "sewer" odour along Coyne Street. General wind direction at Mugga RMC - S to SE

5/1/16 between 0830 to 0930 and 1230 to 1330 - typical putrescible/organics odour within the boundaries around the internal roadways, slightly stronger than yesterday. No odour detected at site boundary along Long Gully Road - very slight organics odour around front entrance on Mugga Lane. No putrescible odours detected within the suburbs. General wind direction at Mugga RMC - N to NE and stronger than yesterday / raining.

Regards,

Scott Hagan
Capital Works, Design and Delivery (CWDD)

-----Original Message-----

From: [S41\(1\)](#)]
Sent: Tuesday, 5 January 2016 1:34 PM
To: Haraldson, Anthony; Hagan, Scott; Dickson, Peter
Cc: [S41\(1\)](#)
Subject: Site inspection today

Hi All,

Please see the attached photos of site conditions during my site inspection today.

A few comments noted below;

The waste that had been excavated from the leachate pipe corridor has generally been spread within the valley as agreed with Remondis and there is a topping of recycled cover material over the greater area of exposed waste. The pipe corridor has also been topped with clay rich fill with only the trench batters having exposed waste. There are no apparent odours.

The site is wet with the rain over the last two days but no real damage to the works.

The environmental measures placed by Simeonov prior to Xmas are working well with no evidence of sediments within the greywater or Clearwater drains.

It is also noted that there are up to 15 sheep 'grazing' on the landfill above the leachate pipe corridor - could ACTNowaste please address this matter.

Date & Time: Tue Jan 5 12:55:37 AEDT 2016

Position: -035.39519° / +149.14624°

Altitude: 633m

Datum: WGS-84

Azimuth/Bearing: 028° N28E 0498mils (True)

Elevation Grade: +034%

Horizon Grade: -004%

Zoom: 2X

Mugga Tip leachate pipes status



Date & Time: Tue Jan 5 12:58:38 AEDT 2016

Position: -035.39136° / +149.14823°

Altitude: 648m

Datum: WGS-84

Azimuth/Bearing: 196° S16W 3484mils (True)

Elevation Grade: +025%

Horizon Grade: +004%

Zoom: 1X

Mugga Tip leachate pipes status



Date & Time: Tue Jan 5 12:58:48 AEDT 2016

Position: -035.39136° / +149.14819°

Altitude: 647m

Datum: WGS-84

Azimuth/Bearing: 269° S89W 4782mils (True)

Elevation Grade: +034%

Horizon Grade: -000%

Zoom: 1X

Mugga Tip leachate pipes status





Date & Time: Tue Jan 5 13:01:01 AEDT 2016

Position: -035.39130° / +149.14785°

Altitude: 643m

Datum: WGS-84

Azimuth/Bearing: 182° S02W 3236mils (True)

Elevation Grade: +015%

Horizon Grade: +006%

Zoom: 1X

Mugga Tip leachate pipes status



Date & Time: Tue Jan 5 13:01:08 AEDT 2016

Position: -035.39130° / +149.14784°

Altitude: 643m

Datum: WGS-84

Azimuth/Bearing: 222° S42W 3947mils (True)

Elevation Grade: +035%

Horizon Grade: +005%

Zoom: 1X

Mugga Tip leachate pipes status

From: s41(1)
To: [Power, David](#)
Subject: RE: Vic EPA odour complaint process
Date: Friday, 8 January 2016 12:17:05 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.jpg](#)

Hi David

Yes, compliance/enforcement is done through our regional offices with the help from the head office.

s41 should be fully aware of these issues as he was providing advice to regional staff.

Regards

s41(

s41(1)

Senior Applied Scientist - Landfills
Environmental Solutions

Environment Protection Authority Victoria

Ernest Jones Drive Macleod VIC 3085 | GPO Box 4395 Melbourne Vic 3001 | DX 210675

☎ s41(1) | M s41(1) | E s41(1) @epa.vic.gov.au | www.epa.vic.gov.au

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A healthy environment that supports a liveable and prosperous Victoria.

From: Power, David [mailto:DAVID.POWER@act.gov.au]

Sent: Friday, 8 January 2016 11:49 AM

To: s41(1)

Subject: RE: Vic EPA odour complaint process

s41(

Thanks for such a quick response. Much appreciate. I'm more after the compliance and enforcement programme you mention and how your officers specifically deal with complaints regarding licensed landfill.

Is s41 the best person to talk to about this or do you have a similar licensing separation like NSW where facilities are dealt with by the regional offices?

Regards

David

From: s41(1) [mailto:s41(1)@epa.vic.gov.au]

Sent: Friday, 8 January 2016 9:49 AM

To: Power, David

Subject: RE: Vic EPA odour complaint process

Hi David

These are some of the potential problems and solutions;

1. Uncovered waste at the end of the day or during the day could cause odours (use appropriate 'daily cover' to cover waste daily, at the end of the day with an appropriate cover or during the day depending on the type and amount of waste i.e. odorous waste needs to be covered as soon it is deposited);
2. Inadequate pumping of leachate (leachate levels needs to be maintained in the landfill in such a way that the leachate levels should be within 300mm above the liner for municipal waste landfills). This could be major odour source if not managed properly. Also the leachate pond, how it managed and whether the leachate is treated appropriately (i.e aerated properly etc.). Most of the time if the leachate pond capacity is not adequate leachate could be sitting in the landfill for some time causing odour problems;
3. Inadequate collection of landfill gas (LFG). (landfill gas needs to be collected and managed appropriately). If the LFG is not collected and managed appropriately it could cause odour problems. We have certain LFG monitoring requirements to identify any problems and to ensure that it is appropriately managed. If the landfill is filled with leachate then the collection of landfill gas would be problematic. See Table 6.4 of our BPEM (Best Practice Environmental Management Guideline, EPA Publication 788.3) for further details on this. This issue occurred in some of our landfills during some heavy rain periods.
4. Large tipping areas that could be difficult to manage (limiting tipping areas could control odours to some level).
5. Rehabilitate filled areas as soon as possible (and practicable), and limit the active areas to minimum (now we don't approve any new cells for construction until we see how the old cells are rehabilitated and until we

- receive a commitment (with funding etc.) to rehabilitate the currently operating cell.
6. Also we have a compliance and enforcement programme to ensure that landfill operators comply with licence conditions.

You may also contact s41(1) who may be able to help you with some more.

I hope this helps.

Regards

s41(1)

s41(1)

Senior Applied Scientist - Landfills
Environmental Solutions

Environment Protection Authority Victoria

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☎ s41(1) | ✉ s41(1)@epa.vic.gov.au | www.epa.vic.gov.au

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A healthy environment that supports a liveable and prosperous Victoria.

From: Power, David [<mailto:DAVID.POWER@act.gov.au>]

Sent: Friday, 8 January 2016 9:04 AM

To: s41(1)

Subject: Vic EPA odour complaint process

Happy New Year s41(1)

Our active landfill recently attract a bit of media attention following a string of odour complaints. In dealing with this issue we gave a public commitment to look at how other jurisdictions deal with odour from landfill facilities specifically in relation to odour complaints.

It would be greatly appreciated if you could point me in the right direction to who the best person in the Vic EPA is to talk too. When I spoke to NSW EPA I spoke to the officer who looks after one of their larger landfills as I'm after the operation perspective.

Thanking you in advance for your assistance.

Regards

David

David Power | Manager Environmental Quality

Phone: 02 62075311 | Email: david.power@act.gov.au

Construction, Environment and Workplace Protection | Access Canberra | ACT Government

GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

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From: [Clayton, Des](#)
To: s41(1)
Cc: [Power, David](#)
Subject: Odour compliant
Date: Monday, 11 January 2016 11:45:00 AM
Importance: High

s41(1)

Environmental Quality received an odour complaint from a resident in Fadden on Saturday morning stating "garbage smell coming from the tip". Therefore Environmental Quality require the following information from Remondis Australia Pty Ltd in order to provide a detailed response:

- a) Meteorological conditions at the site for the past 48 hours;
- b) Time and date stamped photographs of the active tip face including photographs showing intermediate and daily cover;
- c) Details of any projects currently being undertaken by third parties that may impact on the generation of odour;
- d) Details of any measures taken or proposed to be taken to deal with odour generation;
- e) The current level of the leachate dam.

If you could please provide a written response within 24 hours of the date and time of this email.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
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From: [Power, David](#)
To: [Clayton, Des](#)
Subject: RE: Canberra Times - Smelly business
Date: Tuesday, 12 January 2016 12:36:47 PM

Greg

Couldn't even smell the open tipping face while we were at the landfill so I'm not sure how things have increased. Tipping face has been covered as per the EA and is currently only approximately 30 meters by about 10 metres deep which is covered as soon as it is compacted. Also spoke to some workmen on site who have been there for several months and they indicated that they haven't been able to smell anything. This was confirmed by another contractor on the same site who said they couldn't smell anything.

Just had a catchup with ACT Nowaste's new contractors manager and I said that further strategic work/modelling needs to be done in relation to the odour issue and that there is scope to do this as part of the work that is currently being done for the next stage of expansion.

Regards

Dave

From: Clayton, Des
Sent: Tuesday, 12 January 2016 11:55 AM
To: Jones, Greg; Power, David
Subject: RE: Canberra Times - Smelly business

Ok we have a meeting with an external client at noon, Dave will come around after the meeting ends.

Des Clayton | Environment Protection Officer | EPA Inspectorate
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From: Jones, Greg
Sent: Tuesday, 12 January 2016 11:45 AM
To: Clayton, Des; Power, David
Subject: RE: Canberra Times - Smelly business

Thanks Des

Yes that would be good.

We will need to come up with some response as it is alleged that the odour has increased over the last week.

Regards

Greg

From: Clayton, Des
Sent: Tuesday, 12 January 2016 11:42 AM
To: Jones, Greg; Power, David
Subject: RE: Canberra Times - Smelly business

Greg,

Dave and myself have been out on site this morning looking at Fadden Ridge and landfill operations. Other than normal background odours, e.g. bush we could not detect anything in Fadden.

Remondis currently operating a very small tipping face, less than 20 meters wide at a guess and covering the face at the completion of daily operations as required under their authorisation.

Dave is currently in a meeting and I'll get him to come round to brief you when he is out?

Des

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
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From: Jones, Greg
Sent: Tuesday, 12 January 2016 11:03 AM
To: Clayton, Des; Power, David
Subject: FW: Canberra Times - Smelly business
Importance: High

Hi Dave and Des

Any progress with this yet?

Note we need a response for *The Canberra Times* as well today.

Thanks

Greg

From: Thompson, Bruce
Sent: Tuesday, 12 January 2016 10:42 AM
To: Jones, Greg; McCabe, Mark; Snowden, David; Peffer, Dave
Cc: O'Daly, Edward; Virtue, Geoff; Bell, Kevin
Subject: RE: Canberra Times - Smelly business
Importance: High

Hi guys

This smell won't go away – see CT enquiry below:

As a suggested response based on our actions to date:

Following on from previous complaints about the odour, all complaints from the public received by the Access Canberra Call Centre are immediately forwarded to the EPA for action.

All complaints received are followed up by the EPA, who contact the complainant directly to gather further details in relation to the time and date of the odour. The EPA invites complainants to keep a diary of when the odour is detected to assist with their investigations.

All complaints are also followed up by the EPA with the tip operator, Remondis to get baseline information such as meteorological conditions, onsite works, any systems failures, and photos of the tip face (date and time stamp). This is enabling the EPA to put together a more detailed picture of the nature and cause of the odour.

Do we have any update on these actions we can include? - reply required by COB today – TAMS is also following up with NoWaste

Cheers
Bruce

Bruce Thompson
Manager (Communications and Engagement)
Access Canberra, Chief Minister, Treasury & Economic Development Directorate
ACT Government
Ph. 02 62076457 Mob. s41(1) Fax. 02 62070163

From: Virtue, Geoff
Sent: Tuesday, 12 January 2016 10:12 AM
To: Thompson, Bruce
Subject: FW: Canberra Times - Smelly business

fyi

From: s41(1)]
Sent: Tuesday, 12 January 2016 10:02 AM
To: Garner, Jeff; Virtue, Geoff

Subject: Canberra Times - Smelly business

Hi Tams teams.

Happy new year in fact. Today I have the great pleasure of investigating a foul smell with alleged origins at the Mugga Lane tip. It has apparently upset some residents and the opposition.

Is the smell being investigated and do TAMS know what it is?

Is the smell just a matter of it being hot weather and... also tip?

What can be done, and has TAMS been contacted with complaints?

Reckon a few lines in reply is possible today?



s41(1)

Reporter | canberratimes.com.au

-

a: 9 Pirie St Fyshwick, ACT 2609 t:s41(1) m:s41(1)

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From: [Power, David](#)
To: s41(1)
Subject: Day cover
Date: Wednesday, 13 January 2016 9:54:00 AM
Attachments: [image001.jpg](#)

Good Morning s41(1)

As discussed we are still getting odour complaints. As agreed can you cease using the alternate cover/mats and cover the rubbish each day with soil.

Thanks for your assistance.

Regards

David

David Power | Manager Environmental Quality
Phone: 02 62075311 | Email: david.power@act.gov.au
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GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>
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From: s41(1)
To: [Clayton, Des](#)
Cc: [Power, David](#); [Jones, Greg](#)
Subject: RE: Odour complaint
Date: Thursday, 14 January 2016 8:53:32 AM
Attachments: [130116_1940.jpg](#)
[Canberra Tuggeranong Observation Report as at 13 Jan 15.pdf](#)
[140116_0615.jpg](#)

Des,

Please find below responses to your requirements listed in your email.

- a) Please see report attached
- b) Photos included of closing face afternoon and opening in the morning
- c) There are no project that may impact the generation of odour
- d) As previously notified we have an odour suppression unit positioned on top of the old landfill. This has not been utilised to date as we have not detected any odour when we check by positioning ourselves along the ridge line of the old landfill.
- e) Leachate dam is at below 15%

Regards

s41(1)

From: Clayton, Des [mailto:Des.Clayton@act.gov.au]
Sent: Wednesday, 13 January 2016 9:19 AM
To: s41(1)
Cc: Power, David; Jones, Greg
Subject: Odour complaint
Importance: High

s41(1),

Environmental Quality received an odour complaint overnight from a resident in Fadden regarding odour in the suburb that may be coming from the tip Therefore Environmental Quality require the flowing information from Remondis Australia Pty Ltd in order to provide a detailed response:

- a) Meteorological conditions at the site for the past 48 hours;
- b) Time and date stamped photographs of the active tip face including photographs showing intermediate and daily cover;
- c) Details of any projects currently being undertaken by third parties that may impact on the generation of odour;
- d) Details of any measures taken or proposed to be taken to deal with odour generation;
- e) The current level of the leachate dam.

If you could please provide a written response within 24 hours of the date and time of this email.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate

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Tuggeranong, Australian Capital Territory January 2016 Daily Weather Observations



Australian Government
Bureau of Meteorology

Date	Day	Temps		Rain mm	Evap mm	Sun hours	Max wind gust			9am						3pm					
		Min	Max				Dirn	Spd	Time	Temp	RH	Cld	Dirn	Spd	MSLP	Temp	RH	Cld	Dirn	Spd	MSLP
		°C	°C					km/h	local	°C	%	eighths		km/h	hPa	°C	%	eighths		km/h	hPa
1	Fr	15.0	34.2	0			SSE	43	15:29	22.7	54		SW	7	1015.0	33.3	14		ESE	20	1009.4
2	Sa	18.2	26.8	0			SSE	43	12:10	21.5	53		SW	2	1011.8	25.3	37		SSE	19	1009.5
3	Su	16.1	23.3	0			E	39	10:52	19.7	61		ESE	19	1014.5	22.3	45		SSE	15	1013.3
4	Mo	14.5	19.2	5.4			ESE	28	16:07	15.1	90		SSE	11	1017.1	18.6	64		ESE	15	1015.9
5	Tu	14.0	18.2	8.6			ESE	31	11:05	14.7	100		SW	6	1016.7	17.4	71		E	15	1014.5
6	We	14.7	20.3	2.8			S	35	12:55	16.5	73		SSE	19	1013.8	18.3	74		S	9	1013.2
7	Th	13.5	24.3	0			S	50	06:10	17.0	59		SSE	24	1015.2	22.8	37		SSE	13	1014.4
8	Fr	8.9	29.1	0			ENE	30	19:26	16.7	70		NW	7	1018.9	27.5	31		W	11	1015.9
9	Sa	13.7	30.9	0			ENE	37	20:56	19.7	67		ENE	6	1019.7	29.1	32		NNW	11	1015.5
10	Su	14.5	33.8	0			N	30	13:35	22.9	61		SE	2	1018.6	33.4	27		WNW	13	1014.0
11	Mo	15.5	35.0	0			WNW	39	12:57	23.8	59		NNW	2	1013.0	33.8	17		W	19	1009.4
12	Tu	18.3	36.7	0			W	39	15:43	27.5	34		ESE	6	1011.1	34.9	21		W	17	1010.2
13	We	14.6		0						22.3	54		SSW	4	1017.5						
Statistics for the first 13 days of January 2016																					
Mean		14.7	27.7							20.0	64			8	1015.6	26.4	39			14	1012.9
Lowest		8.9	18.2							14.7	34		#	2	1011.1	17.4	14		S	9	1009.4
Highest		18.3	36.7	8.6			S	50		27.5	100		SSE	24	1019.7	34.9	74		ESE	20	1015.9
Total				16.8																	



From: s41(1)
To: [Clayton, Des](mailto:Des.Clayton@act.gov.au)
Subject: RE: Odour complaints
Date: Monday, 18 January 2016 2:35:57 PM
Attachments: [observations_180116.xlsx](#)
[IMG_0193.jpg](#)
[IMG_0194.jpg](#)

Des,

Meteorological report attached.

Photos of last couple of nights.

There are no projects being under taken that would impact odour generation.

We are currently closing off the whole tip face as a measure to minimise odour overnight.

Current level of the dam remains minus 12%

Photos will be sent though in the morning.

Regards

s41(1)

From: Clayton, Des [mailto:Des.Clayton@act.gov.au]
Sent: Monday, 18 January 2016 2:11 PM
To: s41(1)
Subject: Odour complaints
Importance: High

s41(1),

I spoke to soon as I have just received 2 odour complaints from a residents in Fadden and Gowrie. Therefore Environmental Quality require the flowing information from Remondis Australia Pty Ltd in order to provide a detailed response:

- a) Meteorological conditions at the site for the past 48 hours;
- b) Time and date stamped photographs of the active tip face including photographs showing intermediate and daily cover;
- c) Details of any projects currently being undertaken by third parties that may impact on the generation of odour;
- d) Details of any measures taken or proposed to be taken to deal with odour generation;
- e) The current level of the leachate dam.

If you could please provide a written response within 24 hours of the date and time of this email.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
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Date/Time EDT	Tmp °C	App Tmp °C	Dew Point °C	Rel Hum %	Delta-T °C	Wind					Press QNH hPa	Press MSL hPa	Rain since 9 am mm
						Dir	Spd km/h	Gust km/h	Spd kts	Gust kts			
18/12:00 pm	24.3	22.7	10.2	41	8	NNE	9	17	5	9	1019.9	1017	0
18/11:30 am	23.3	22.6	11.4	47	6.8	NNW	6	13	3	7	1020.4	1017.5	0
18/11:00 am	21.4	20.4	10.9	51	5.9	NNW	7	11	4	6	1020.9	1018.1	0
18/10:30 am	20	19.5	12	60	4.6	W	6	13	3	7	1021.4	1018.5	0
18/10:00 am	18.5	17.8	12	66	3.7	W	7	9	4	5	1021.7	1018.8	0
18/09:30 am	16.7	15.9	11.2	70	3.1	NE	6	11	3	6	1022	1019.1	0
18/09:00 am	15.4	15.9	11.6	78	2.1	CALM	0	0	0	0	1022.3	1019.5	0
18/08:30 am	14.9	15	11.5	80	1.9	WSW	2	9	1	5	1022.2	1019.4	0
18/08:00 am	14.6	14	11.6	82	1.7	SE	6	9	3	5	1022.2	1019.4	0
18/07:30 am	14.4	13.7	11.4	82	1.7	SE	6	7	3	4	1022	1019.1	0
18/07:00 am	14.2	14.6	11.4	83	1.5	CALM	0	7	0	4	1021.8	1018.9	0
18/06:30 am	14.2	13.9	11.5	84	1.5	SE	4	7	2	4	1021.7	1018.8	0
18/06:00 am	13.8	14.3	11.5	86	1.3	CALM	0	0	0	0	1021.6	1018.7	0
18/05:30 am	13.6	12.8	11.7	88	1	E	7	9	4	5	1021.2	1018.3	0
18/05:00 am	12.9	11.9	11.1	89	1	E	7	9	4	5	1021.1	1018.2	0
18/04:30 am	12.5	11.5	11.1	91	0.8	E	7	9	4	5	1020.9	1018.1	0
18/04:00 am	11.9	12.3	11.4	97	0.3	CALM	0	0	0	0	1020.9	1018.1	0
18/03:30 am	11.2	11.3	10	92	0.6	CALM	0	0	0	0	1021.1	1018.2	0
18/03:00 am	11.7	11.7	9.9	89	0.9	CALM	0	0	0	0	1021.2	1018.3	0
18/02:30 am	12.3	12.4	10	86	1.2	CALM	0	0	0	0	1021.7	1018.8	0
18/02:00 am	13.3	12.5	11	86	1.2	ESE	6	9	3	5	1021.8	1018.9	0
18/01:30 am	14	12.7	11.3	84	1.5	NE	9	11	5	6	1021.9	1019	0
18/01:00 am	14.3	13.8	10.7	79	1.9	NNE	4	7	2	4	1022.3	1019.5	0
18/12:30 am	15.2	14.4	11.6	79	2	NE	7	11	4	6	1022.4	1019.6	0
18/12:00 am	15.6	15	11.6	77	2.2	NNE	6	7	3	4	1022.6	1019.8	0
Date/Time EDT	Tmp °C	App Tmp °C	Dew Point °C	Rel Hum %	Delta-T °C	Wind					Press QNH hPa	Press MSL hPa	Rain since 9 am mm
						Dir	Spd km/h	Gust km/h	Spd kts	Gust kts			
17/11:30 pm	16	15.7	11.4	74	2.6	NE	4	9	2	5	1022.4	1019.6	0
17/11:00 pm	16.7	15.5	11.6	72	2.8	ENE	9	13	5	7	1022.4	1019.6	0
17/10:30 pm	17.3	16.1	11.6	69	3.2	ENE	9	17	5	9	1022.7	1019.9	0
17/10:00 pm	18	16	11.6	66	3.6	E	13	20	7	11	1022.9	1020	0
17/09:30 pm	18.7	17	11.3	62	4.2	E	11	17	6	9	1022.6	1019.8	0
17/09:00 pm	19.6	18.1	10.6	56	5	E	9	15	5	8	1022.2	1019.4	0
17/08:30 pm	20.5	18.8	10	51	5.8	ENE	9	13	5	7	1021.8	1018.9	0
17/08:00 pm	21.5	18.2	9.7	47	6.5	ENE	17	24	9	13	1021.7	1018.8	0
17/07:30 pm	22.1	19.1	9.3	44	7.1	ENE	15	24	8	13	1021.6	1018.7	0
17/07:00 pm	22.7	19.6	8.8	41	7.6	NE	15	20	8	11	1021.4	1018.5	0

17/06:30 pm	23.1	19.9	8.4	39	8	NNE	15	20	8	11	1021.4	1018.5	0
17/06:00 pm	23.5	20.6	8	37	8.4	NE	13	24	7	13	1021.2	1018.3	0
17/05:30 pm	23.7	20.7	7.8	36	8.6	NE	13	22	7	12	1021.4	1018.5	0
17/05:00 pm	24.1	21.1	7.7	35	8.9	E	13	22	7	12	1021.6	1018.7	0
17/04:30 pm	24.4	21.9	8	35	8.9	ENE	11	19	6	10	1021.7	1018.8	0
17/04:00 pm	24.9	22.2	7.5	33	9.4	E	11	17	6	9	1021.8	1018.9	0
17/03:30 pm	24.4	21.7	7.5	34	9.1	E	11	20	6	11	1022.2	1019.4	0
17/03:00 pm	23.9	21.4	6.7	33	9.1	NNE	9	19	5	10	1022.6	1019.8	0
17/02:30 pm	24.2	21.3	8.2	36	8.8	NE	13	20	7	11	1023.2	1020.3	0
17/02:00 pm	23.4	20.4	7.9	37	8.4	NNE	13	26	7	14	1023.5	1020.6	0
17/01:30 pm	22.5	19.5	7.5	38	8	NNE	13	22	7	12	1023.9	1021.1	0
17/01:00 pm	21.9	19.1	7	38	7.8	NE	11	19	6	10	1024.3	1021.5	0
17/12:30 pm	21.5	19.9	8.1	42	7.2	NE	6	11	3	6	1024.8	1021.9	0
17/12:00 pm	20.6	18.6	6.9	41	7.1	N	7	15	4	8	1025.2	1022.4	0
17/11:30 am	20	17.8	8	46	6.4	S	9	20	5	11	1025.6	1022.8	0
17/11:00 am	18.7	16.3	7.2	47	6	SE	9	19	5	10	1026.1	1023.3	0
17/10:30 am	17.9	16.2	7.6	51	5.4	N	6	11	3	6	1026.7	1023.9	0
17/10:00 am	16.8	14.1	7.2	53	4.9	ENE	11	15	6	8	1026.9	1024.1	0
17/09:30 am	17.2	14.5	7.5	53	5	NNE	11	17	6	9	1027	1024.2	0
17/09:00 am	16.4	14.8	7.9	57	4.4	SSE	6	15	3	8	1027.1	1024.3	0
17/08:30 am	15.5	13.9	8.7	64	3.6	S	7	9	4	5	1027.1	1024.3	0
17/08:00 am	14.2	13.2	9	71	2.7	SW	4	9	2	5	1026.9	1024.1	0
17/07:30 am	12.4	12.1	8.7	78	1.9	CALM	0	0	0	0	1026.9	1024.1	0
17/07:00 am	11.1	10.9	9.2	88	1	CALM	0	6	0	3	1026.7	1023.9	0
17/06:30 am	9	8.5	7.9	93	0.5	CALM	0	0	0	0	1026.7	1023.9	0
17/06:00 am	8.9	8.4	7.7	92	0.6	CALM	0	0	0	0	1026.4	1023.6	0
17/05:30 am	9.3	8.7	7.4	88	0.9	CALM	0	0	0	0	1026.2	1023.4	0
17/05:00 am	10.7	9	8.5	86	1.1	E	7	9	4	5	1026.2	1023.4	0
17/04:30 am	11.3	9.6	8.3	82	1.5	E	7	9	4	5	1026.1	1023.3	0
17/04:00 am	12.4	12.2	8.9	79	1.8	CALM	0	2	0	1	1026.2	1023.4	0
17/03:30 am	13.1	11.9	9.4	78	1.9	ENE	6	7	3	4	1026.3	1023.5	0
17/03:00 am	13.3	12.1	9.7	79	1.9	NNE	6	9	3	5	1026.6	1023.7	0
17/02:30 am	12.8	12.8	9.8	82	1.6	CALM	0	2	0	1	1026.9	1024.1	0
17/02:00 am	12	12.1	10.2	89	0.9	CALM	0	0	0	0	1027.1	1024.3	0
17/01:30 am	11.1	10.8	8.8	86	1.2	CALM	0	0	0	0	1027.2	1024.4	0
17/01:00 am	12.2	12	9.2	82	1.5	CALM	0	0	0	0	1027.2	1024.4	0
17/12:30 am	12.8	11.6	9.4	80	1.8	E	6	9	3	5	1027.4	1024.6	0
17/12:00 am	13.2	11.9	9.8	80	1.8	ENE	7	11	4	6	1027.6	1024.8	0
Date/Time EDT	Temp °C	App Temp °C	Dew Point °C	Rel Hum %	Delta-T °C	Wind					Press QNH hPa	Press MSL hPa	Rain since 9 am mm
						Dir	Spd km/h	Gust km/h	Spd kts	Gust kts			

16/11:30 pm	13.5	12.2	10.1	80	1.8	ESE	7	11	4	6	1027.8	1025	0
16/11:00 pm	12.5	12.5	9.7	83	1.5	CALM	0	0	0	0	1027.8	1025	0
16/10:30 pm	13.5	13.5	9.7	78	2	CALM	0	2	0	1	1027.9	1025.1	0
16/10:00 pm	14.6	13.1	10.4	76	2.3	NE	9	13	5	7	1027.9	1025.1	0
16/09:30 pm	15	12.4	10.6	75	2.4	ENE	15	20	8	11	1027.8	1025	0
16/09:00 pm	15.4	13.2	10.8	74	2.5	ENE	13	24	7	13	1027.5	1024.7	0
16/08:30 pm	16.3	13.6	10.2	67	3.3	ENE	15	22	8	12	1027.4	1024.6	0
16/08:00 pm	17.5	15	9.7	60	4.2	E	13	22	7	12	1027	1024.2	0
16/07:30 pm	17.9	14.6	9.5	58	4.5	ENE	17	26	9	14	1026.7	1023.9	0
16/07:00 pm	18.9	15.3	9.7	55	5	ENE	19	26	10	14	1026.4	1023.6	0
16/06:30 pm	19.3	15.1	8.3	49	5.9	ENE	20	33	11	18	1026.2	1023.4	0
16/06:00 pm	19.8	15.6	8.2	47	6.2	ENE	20	30	11	16	1025.9	1023.1	0
16/05:30 pm	20.3	16	7.7	44	6.7	E	20	30	11	16	1025.8	1023	0
16/05:00 pm	20.4	15.8	6.7	41	7.1	ENE	20	37	11	20	1026	1023.2	0
16/04:30 pm	21.8	17.5	8	41	7.4	ENE	20	32	11	17	1026	1023.2	0
16/04:00 pm	21.6	16.8	7.4	40	7.5	ENE	22	35	12	19	1026.1	1023.3	0
16/03:30 pm	20.8	16.4	7.4	42	7.1	E	20	35	11	19	1026.4	1023.6	0
16/03:00 pm	20.9	16.6	7.2	41	7.2	E	19	28	10	15	1026.7	1023.9	0
16/02:30 pm	21.1	17.2	8.7	45	6.7	ENE	19	28	10	15	1027.2	1024.4	0
16/02:00 pm	20.3	16	8	45	6.5	NE	20	32	11	17	1027.4	1024.6	0
16/01:30 pm	19.6	15.5	7.7	46	6.3	ENE	19	26	10	14	1027.8	1025	0
16/01:00 pm	20.3	16	7.7	44	6.6	E	20	30	11	16	1028.1	1025.3	0
16/12:30 pm	18.8	15.4	7.6	48	5.9	E	15	22	8	12	1028.5	1025.7	0
16/12:00 pm	18.4	15.7	7.2	48	5.8	ESE	11	20	6	11	1028.7	1025.9	0
16/11:30 am	17.9	14.3	6.7	48	5.7	E	15	24	8	13	1028.9	1026.1	0
16/11:00 am	17.2	14.9	7.3	52	5.1	SSE	9	15	5	8	1028.9	1026.1	0
16/10:30 am	17.1	13.7	7.5	53	5	S	15	22	8	12	1028.9	1026.1	0
16/10:00 am	16.8	13.7	7.2	53	4.9	SSE	13	20	7	11	1029	1026.2	0
16/09:30 am	15.9	12.3	6.9	55	4.6	S	15	22	8	12	1029.2	1026.4	0
16/09:00 am	14.3	10.6	6.4	59	3.9	S	15	22	8	12	1029.3	1026.5	0
16/08:30 am	13.8	9.7	6.4	61	3.7	S	17	26	9	14	1029.3	1026.5	0
16/08:00 am	13.1	9.3	5.8	61	3.5	SSE	15	22	8	12	1028.8	1026	0
16/07:30 am	12.3	8.9	6.1	66	3	S	13	28	7	15	1028.7	1025.9	0
16/07:00 am	11.5	7.6	5.4	66	2.9	SSE	15	22	8	12	1028.5	1025.7	0
16/06:30 am	10.7	7.6	5.7	71	2.4	ESE	11	19	6	10	1028.5	1025.7	0
16/06:00 am	9.8	7	5.2	73	2.1	ESE	9	13	5	7	1028.1	1025.3	0
16/05:30 am	10.7	6.8	5.3	69	2.6	SE	15	22	8	12	1027.9	1025.1	0
16/05:00 am	10.4	7.3	5.4	71	2.3	SE	11	19	6	10	1027.8	1025	0
16/04:30 am	11.1	7.6	5.6	69	2.6	SE	13	20	7	11	1027.6	1024.8	0
16/04:00 am	11.1	6.9	5.6	69	2.6	SSE	17	26	9	14	1027.4	1024.6	0
16/03:30 am	10.3	8.9	5.3	71	2.4	ESE	2	7	1	4	1027.4	1024.6	0

16/03:00 am	11.2	8.5	5.5	68	2.7	ESE	9	13	5	7	1027.6	1024.8	0
16/02:30 am	11.7	7.9	5.8	67	2.8	SSE	15	24	8	13	1027.9	1025.1	0
16/02:00 am	11.5	8.4	5.6	67	2.8	SSE	11	17	6	9	1028.4	1025.6	0
16/01:30 am	11.5	8.4	5.6	67	2.8	SE	11	19	6	10	1028.7	1025.9	0
16/01:00 am	12	8.5	5.6	65	3.1	SSE	13	19	7	10	1028.9	1026.1	0
16/12:30 am	12	9.4	6.1	67	2.9	S	9	15	5	8	1029	1026.2	0
16/12:00 am	11.8	9.2	6.1	68	2.7	SSE	9	11	5	6	1029.2	1026.4	0
Date/Time EDT	Tmp °C	App Tmp °C	Dew Point °C	Rel Hum %	Delta-T °C	Wind					Press QNH hPa	Press MSL hPa	Rain since 9 am mm
						Dir	Spd km/h	Gust km/h	Spd kts	Gust kts			
15/11:30 pm	12.4	9.8	6.2	66	3	ESE	9	13	5	7	1029.3	1026.5	0
15/11:00 pm	13	9.7	6.6	65	3.1	ESE	13	19	7	10	1029.3	1026.5	0
15/10:30 pm	13.4	10.7	7.2	66	3.1	ESE	11	17	6	9	1029.4	1026.6	0
15/10:00 pm	14.3	11.2	7.1	62	3.6	ESE	13	22	7	12	1029.4	1026.6	0
15/09:30 pm	15	12.3	7.3	60	3.9	ESE	11	17	6	9	1029.1	1026.3	0
15/09:00 pm	15.7	11	5.3	50	5.1	SE	19	28	10	15	1028.8	1026	0
15/08:30 pm	15.7	10.9	5.6	51	5	SSE	20	30	11	16	1028.4	1025.6	0
15/08:00 pm	16.2	11.6	5.8	50	5.1	SSE	19	28	10	15	1028	1025.2	0
15/07:30 pm	16.4	11.3	6	50	5.2	SSE	22	37	12	20	1027.7	1024.9	0
15/07:00 pm	18	13.4	6.5	47	5.8	SSE	20	30	11	16	1027.2	1024.4	0
15/06:30 pm	17.7	12.5	5.6	45	6.1	SSE	22	33	12	18	1026.7	1023.9	0
15/06:00 pm	18.8	13.7	6	43	6.5	SSE	22	32	12	17	1026.3	1023.5	0
15/05:30 pm	18.4	13.7	5.9	44	6.3	SSE	20	33	11	18	1026	1023.2	0
15/05:00 pm	18.5	13.3	5.7	43	6.4	SSE	22	35	12	19	1025.8	1023	0
15/04:30 pm	19	14.2	4.7	39	7.1	SE	19	28	10	15	1025.7	1022.9	0
15/04:00 pm	20.1	14.8	5	37	7.6	SSE	22	33	12	18	1025.6	1022.8	0
15/03:30 pm	19.8	14.9	5.1	38	7.4	SSE	20	35	11	19	1025.6	1022.8	0
15/03:00 pm	19.1	14.4	5.9	42	6.7	S	20	33	11	18	1025.8	1023	0
15/02:30 pm	19.6	15	6.7	43	6.7	S	20	33	11	18	1025.8	1023	





From: [Clayton, Des](#)
To: [Middlemiss, David](#)
Cc: [Jones, Greg](#); [Power, David](#)
Subject: FW: covering of landfill face
Date: Thursday, 21 January 2016 2:19:15 PM
Attachments: [image001.gif](#)
Importance: High

Dave,

Could I get some guidance on the below request.

As background, Dave Power given the amount of complaints regarding odour from the site we have been receiving requested that Remondis Australia Pty Ltd cover the open tip face completely with soil at the end of the operational day to see if this eliminated and / or reduced odour. Previously they had been using an approved alternate day cover, E.g. removable matting.

We are still receiving odour complaints from residents, received 2 today. Happy to discuss with you in needed.

Thank you

Des

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: s41(1)
Sent: Thursday, 21 January 2016 2:07 PM
To: Clayton, Des
Subject: covering of landfill face

Dear Des,

As discussed REMONDIS would like to clarify the length of time ACT EPA want the landfill face fully covered at the end of each day. The reason we seek to clarify this is that covering the whole face impacts our operation financially.

The usual operation using the matts to cover the face are pulled on using a dozer at the end of the day and pulled off at the beginning of the day. This in total takes total of thirty minutes at the most.

Now we are starting one employee 45 minutes earlier to uncover waste using D7 dozer. At the end of the day it is taking an hour to two hours to cover the material, D7 dozer and sometimes a second machine.

The increased amount of cover also affects our possible monthly payment as per the Mugga

Lane Landfill contract. The compaction ratio of the landfill effects the monthly amount we are paid and soil tonnage is not included in this calculation but takes up volume therefore decreasing the compaction ratio. This effect could be in the range of s43(1) to s43(1) per month. This doesn't take into account lost airspace for the Territory.

Increased costs s43(1) per month conservative
Lost revenue due to poor compaction s43(1) per month

If this was to continue much beyond the 31st January REMONDIS will have to approach ACT NOWaste for a modification to the contract.

Please review and advise.

Regards

REMONDIS Australia Pty Ltd
Waste Solutions

s41(1)
ACT Area Manager

1 John Cory Circuit Hume ACT 2609, Australia P.O. Box 9, Fyshwick ACT, Australia

Phone: s41(1)

Mobile: s41(1)

National Service Line: 13 73 73

Fax: s41(1)

s41(1) // www.remondis.com.au



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Australia // T +61 2 9032 7100 // F +61 2 9667 0994 // info@remondis.com.au //
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From: [Clayton, Des](#)
To: enquiries@edl.com.au
Subject: Odour complaints - Mugga Lane Resource Management Centre
Date: Thursday, 21 January 2016 4:07:00 PM
Importance: High

Good afternoon,

The ACT Environment Protection Authority is currently investigating numerous complaints received from residents in the Tuggeranong valley that relate to odour which may be coming from the Mugga Lane Resource Management Centre, Block 2114 Jerrabomberra.

We understand that EDL is contracted by the Territory for the recovery of landfill gas used in the generation of green power at the site.

Could you please advise if EDL has changed any onsite operations and / or practices in the past few months? Has any upgrade of infrastructure been undertaken, plant been taken off line for maintenance and/ or replacement or any observations made by onsite staff that may assist us in this matter?

If you require any further information on the above please do not hesitate to contact me.

Thank you and Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: s41(1)
To: [Clayton, Des](#)
Subject: RE: Odour complaint
Date: Thursday, 21 January 2016 4:29:45 PM
Attachments: [observation 48h 210116.xlsx](#)
[804.jpeg](#)

Des,

As requested.

- a) Observations for past 48 hours
- b) Photos attached
- c) There are no project that may impact odour generation currently under way
- d) Complete cover of landfill active face has continued
- e) Leachate dam is maintaining a level below 12%.

Regards

Richard

From: Clayton, Des [mailto:Des.Clayton@act.gov.au]
Sent: Thursday, 21 January 2016 8:56 AM
To: s41(1)
Subject: Odour complaint
Importance: High

s41(1),

we have received a further odour complaint this morning. Therefore could you please provide a response in regard to the below:

- a) Meteorological conditions at the site for the past 48 hours;
- b) Time and date stamped photographs of the active tip face including photographs showing intermediate and daily cover;
- c) Details of any projects currently being undertaken by third parties that may impact on the generation of odour;
- d) Details of any measures taken or proposed to be taken to deal with odour generation;
- e) The current level of the leachate dam.

If you could please provide a written response within 24 hours of the date and time of this email.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT
Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box
158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

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Date/Time EDT	Tmp °C	App Tmp °C	Dew Point °C	Rel Hum %	Delta-T °C	Wind					Press QNH hPa	Press MSL hPa	Rain since 9 am mm
						Dir	Spd km/h	Gust km/h	Spd kts	Gust kts			
21/04:00 pm	23.5	23.3	19.4	78	2.7	N	19	26	10	14	1011.5	1008.6	0
21/03:39 pm	25.5	23.3	16.9	59	5.5	W	24	37	13	20	1011.1	1008.1	0
21/03:30 pm	30.5	27.8	14.6	38	9.9	WNW	22	30	12	16	1010.5	1007.5	0
21/03:00 pm	31.7	29.6	14.8	36	10.6	W	19	28	10	15	1009.9	1007	0
21/02:30 pm	31	30.3	15.4	38	9.9	NW	13	20	7	11	1010.5	1007.5	0
21/02:00 pm	30.9	29.8	15.3	38	9.9	NW	15	30	8	16	1011.1	1008.1	0
21/01:30 pm	32	30.8	15.1	36	10.7	WNW	15	24	8	13	1011.3	1008.3	0
21/01:00 pm	31.6	31.6	15.1	36	10.4	NW	9	24	5	13	1011.6	1008.7	0
21/12:30 pm	31.1	29.5	15.1	38	10.1	NNW	17	22	9	12	1011.6	1008.7	0
21/12:00 pm	32.1	30.5	15.1	35	10.7	NNW	17	24	9	13	1011.8	1008.9	0
21/11:30 am	31.8	31.4	15.3	37	10.4	NNW	11	20	6	11	1012.2	1009.2	0
21/11:00 am	30.4	30.4	15.3	40	9.5	NW	9	17	5	9	1012.6	1009.6	0
21/10:30 am	29.2	28.6	14.6	41	9.1	NW	11	17	6	9	1013	1010.1	0
21/10:00 am	27.2	26.7	13.9	44	8.1	NNW	9	15	5	8	1013.4	1010.5	0
21/09:30 am	25.6	24.6	13.5	47	7.3	N	11	17	6	9	1013.5	1010.6	0
21/09:00 am	23.8	24.3	13.9	54	6	W	4	7	2	4	1013.6	1010.7	0
21/08:30 am	22.2	23	13.8	59	5	ESE	2	7	1	4	1013.5	1010.6	0
21/08:00 am	19.6	20.6	13.3	67	3.7	CALM	0	0	0	0	1013.4	1010.5	0
21/07:30 am	19.7	20.6	12.9	65	3.9	CALM	0	0	0	0	1013.4	1010.5	0
21/07:00 am	19.1	20.1	13.3	69	3.4	CALM	0	7	0	4	1013.1	1010.2	0
21/06:30 am	17.2	18.1	12.9	76	2.5	CALM	0	4	0	2	1013	1010.1	0
21/06:00 am	17.2	18.2	13.1	77	2.4	CALM	0	0	0	0	1012.8	1009.8	0
21/05:30 am	16.9	17.7	12.6	76	2.5	CALM	0	0	0	0	1012.4	1009.4	0
21/05:00 am	17.1	17.9	12.6	75	2.6	CALM	0	0	0	0	1012.3	1009.3	0
21/04:30 am	16.7	17.5	12.7	77	2.3	CALM	0	0	0	0	1012.5	1009.5	0
21/04:00 am	16.1	16.8	12.3	78	2.1	CALM	0	0	0	0	1012.6	1009.6	0
21/03:30 am	16.4	17	11.8	74	2.6	CALM	0	0	0	0	1012.7	1009.7	0
21/03:00 am	17.2	17.8	11.9	71	3	CALM	0	0	0	0	1013	1010.1	0
21/02:30 am	17.6	17.9	12.1	70	3.1	E	2	7	1	4	1013.4	1010.5	0
21/02:00 am	18	17.5	12.2	69	3.3	E	6	7	3	4	1013.6	1010.7	0
21/01:30 am	18.2	17.9	12.6	70	3.2	ENE	6	9	3	5	1014	1011	0
21/01:00 am	18.6	19.4	12.4	67	3.6	CALM	0	0	0	0	1014.3	1011.3	0
21/12:30 am	19.7	20.2	12.7	64	4.1	E	2	7	1	4	1014.3	1011.3	0
21/12:00 am	20.4	21.1	12.1	59	4.8	CALM	0	0	0	0	1014.5	1011.6	0
Date/Time EDT	Tmp °C	App Tmp °C	Dew Point °C	Rel Hum %	Delta-T °C	Wind					Press QNH hPa	Press MSL hPa	Rain since 9 am mm
						Dir	Spd km/h	Gust km/h	Spd kts	Gust kts			

20/11:30 pm	22.3	22.6	12.3	53	5.8	ESE	2	6	1	3	1014.9	1012	0
20/11:00 pm	23.1	22.9	11.8	49	6.5	WSW	4	7	2	4	1015.1	1012.2	0
20/10:30 pm	24.1	23.7	12.4	48	6.9	NNE	6	7	3	4	1015.2	1012.3	0
20/10:00 pm	24	23.7	12.6	49	6.7	NNE	6	9	3	5	1015.2	1012.3	0
20/09:30 pm	24.1	22.6	13	50	6.6	E	13	20	7	11	1014.8	1011.9	0
20/09:00 pm	24.6	22.7	12.9	48	6.9	ENE	15	24	8	13	1014.2	1011.2	0
20/08:30 pm	25.4	22.9	12.3	44	7.7	ENE	17	28	9	15	1013.6	1010.7	0
20/08:00 pm	26.4	26.8	11.3	39	8.8	CALM	0	0	0	0	1013.2	1010.3	0
20/07:30 pm	27.8	27.1	10.1	33	10.2	WNW	4	6	2	3	1013	1010.1	0
20/07:00 pm	28.4	27.1	10.1	32	10.6	WNW	7	11	4	6	1012.9	1009.9	0
20/06:30 pm	28.5	27.8	10.2	32	10.6	WNW	4	9	2	5	1012.6	1009.6	0
20/06:00 pm	28.9	27.5	9.6	30	11.1	W	7	9	4	5	1012.6	1009.6	0
20/05:30 pm	29.1	27	9.8	30	11.1	WSW	11	20	6	11	1012.3	1009.3	0
20/05:00 pm	29.4	26.1	9.5	29	11.4	SW	17	28	9	15	1012.3	1009.3	0
20/04:30 pm	30.2	26.7	8.6	26	12.3	WSW	17	30	9	16	1012.2	1009.2	0
20/04:00 pm	30.8	26.7	8.5	25	12.7	WSW	20	30	11	16	1012.3	1009.3	0
20/03:30 pm	31.2	26	8.8	25	12.8	W	26	41	14	22	1012.4	1009.4	0
20/03:00 pm	32.1	26.2	7.7	22	13.8	WNW	28	56	15	30	1012.1	1009.1	0
20/02:30 pm	32.7	28.2	6.8	20	14.5	WNW	20	35	11	19	1012.1	1009.1	0
20/02:00 pm	34.1	29.1	8	20	14.9	WNW	24	41	13	22	1012.5	1009.5	0
20/01:30 pm	34.9	31.2	9.3	21	15	NW	19	30	10	16	1013	1010.1	0
20/01:00 pm	31.7	28.3	9.3	25	12.9	WNW	17	28	9	15	1013.6	1010.7	0
20/12:30 pm	29.8	28.1	9.9	29	11.5	NW	9	15	5	8	1014.3	1011.3	0
20/12:00 pm	27.5	25.3	9.3	32	10.3	NNE	11	15	6	8	1014.8	1011.9	0
20/11:30 am	26.9	25.1	9.3	33	9.9	N	9	15	5	8	1015.3	1012.4	0
20/11:00 am	25.4	23.3	8.4	34	9.4	NNW	9	13	5	7	1015.5	1012.6	0
20/10:30 am	24.5	24.4	9.3	38	8.5	CALM	0	6	0	3	1015.7	1012.7	0
20/10:00 am	23.9	22.6	9.1	39	8.2	NNE	6	9	3	5	1015.7	1012.7	0
20/09:30 am	22.3	21.2	10.8	48	6.5	N	7	9	4	5	1015.7	1012.7	0
20/09:00 am	20.8	21.7	12.8	60	4.7	CALM	0	0	0	0	1015.8	1012.8	0
20/08:30 am	20	20.9	13	64	4.1	CALM	0	0	0	0	1015.7	1012.7	0
20/08:00 am	19.7	19.9	11.7	60	4.5	E	2	7	1	4	1015.5	1012.6	0
20/07:30 am	18.2	17.1	10.6	61	4.2	E	7	9	4	5	1015.2	1012.3	0
20/07:00 am	17.1	16.6	9.5	61	4.1	E	2	7	1	4	1014.9	1012	0
20/06:30 am	16	14.8	9.4	65	3.5	ENE	6	7	3	4	1014.5	1011.6	0
20/06:00 am	16	15.8	9	63	3.7	CALM	0	0	0	0	1014.4	1011.4	0
20/05:30 am	16.2	15	9.6	65	3.5	ENE	6	6	3	3	1014.2	1011.2	0
20/05:00 am	16.5	15.1	8.7	60	4.1	E	6	9	3	5	1013.9	1010.9	0
20/04:30 am	15.6	15.2	9.7	68	3.2	ENE	2	7	1	4	1013.9	1010.9	0
20/04:00 am	15.9	16.1	10.4	70	3	CALM	0	0	0	0	1014	1011	0
20/03:30 am	16.3	15.2	9.9	66	3.5	E	6	7	3	4	1014	1011	0

20/03:00 am	15.8	16.1	10.8	72	2.7	CALM	0	0	0	0	1014	1011	0
20/02:30 am	16.1	16.4	10.8	71	2.9	CALM	0	0	0	0	1014.2	1011.2	0
20/02:00 am	16.2	16.3	10.1	67	3.3	CALM	0	0	0	0	1014.2	1011.2	0
20/01:30 am	17.1	17.3	10.7	66	3.5	CALM	0	6	0	3	1014.3	1011.3	0
20/01:00 am	18.4	18.5	10	58	4.6	CALM	0	0	0	0	1014.5	1011.6	0
20/12:30 am	18.9	19.1	10.7	59	4.6	CALM	0	0	0	0	1014.5	1011.6	0
20/12:00 am	19	19.2	10.6	58	4.7	CALM	0	0	0	0	1014.5	1011.6	0
Date/Time EDT	Tmp °C	App Tmp °C	Dew Point °C	Rel Hum %	Delta-T °C	Wind					Press QNH hPa	Press MSL hPa	Rain since 9 am mm
						Dir	Spd km/h	Gust km/h	Spd kts	Gust kts			
19/11:30 pm	20.5	19.7	9.7	50	5.9	E	4	7	2	4	1014.5	1011.6	0
19/11:00 pm	21.3	21.2	9.5	47	6.5	CALM	0	0	0	0	1014.4	1011.4	0
19/10:30 pm	22.3	21	9.8	45	7	E	7	13	4	7	1014.4	1011.4	0
19/10:00 pm	23.4	22.7	10.1	43	7.5	ENE	4	7	2	4	1014.3	1011.3	0
19/09:30 pm	24.3	22.9	9.5	39	8.3	E	7	9	4	5	1014.2	1011.2	0
19/09:00 pm	25.1	23.9	9.4	37	8.8	E	6	9	3	5	1014	1011	0
19/08:30 pm	27.2	27.1	9.5	33	10	CALM	0	0	0	0	1013.9	1010.9	0
19/08:00 pm	30	28.4	7.8	25	12.4	WNW	6	9	3	5	1013.6	1010.7	0
19/07:30 pm	31.5	28.4	7.2	22	13.6	W	13	17	7	9	1013.5	1010.6	0
19/07:00 pm	31.9	27.6	6.9	21	13.9	W	19	26	10	14	1013.4	1010.5	0
19/06:30 pm	32.4	28	6.6	20	14.3	W	19	30	10	16	1013.2	1010.3	0
19/06:00 pm	31.8	28.1	6.1	20	14.1	WSW	15	24	8	13	1013.1	1010.2	0
19/05:30 pm	33	28.1	3.9	16	15.5	W	19	28	10	15	1013.2	1010.3	0
19/05:00 pm	32.1	28.8	6.3	20	14.2	W	13	26	7	14	1013.5	1010.6	0
19/04:30 pm	32.1	28.4	6.3	20	14.2	W	15	26	8	14	1013.6	1010.7	0
19/04:00 pm	33.5	29.6	3.3	15	16	NW	13	24	7	13	1014	1011	0
19/03:30 pm	33.1	29	6.4	19	14.8	WSW	17	30	9	16	1014.4	1011.4	0
19/03:00 pm	32.3	28	7.2	21	14.1	SW	19	28	10	15	1014.7	1011.8	0
19/02:30 pm	33.1	29.8	7.9	21	14.3	WNW	15	26	8	14	1015	1012.1	0
19/02:00 pm	32.4	28.5	7.3	21	14.1	W	17	28	9	15	1015.5	1012.6	0
19/01:30 pm	31.5	27.4	7.9	23	13.3	WNW	19	30	10	16	1015.9	1012.9	0
19/01:00 pm	31.6	27.7	8.6	24	13.1	W	19	30	10	16	1016.2	1013.3	0
19/12:30 pm	30.9	28.1	8.6	25	12.7	WNW	13	26	7	14	1016.6	1013.7	0
19/12:00 pm	30	26.4	8.4	26	12.2	WSW	17	35	9	19	1016.9	1014	0
19/11:30 am	29.5	26.5	9.1	28	11.6	WNW	15	22	8	12	1017.2	1014.3	0
19/11:00 am	28.3	26	10.5	33	10.3	NNW	13	24	7	13	1017.8	1014.9	0
19/10:30 am	25.4	24.2	11.6	42	8	NNW	9	17	5	9	1018.5	1015.6	0
19/10:00 am	23.7	22.1	11.4	46	7.1	N	11	17	6	9	1018.8	1015.9	0
19/09:30 am	22.9	21.7	11.6	49	6.5	NNE	9	15	5	8	1019.3	1016.4	0
19/09:00 am	21.4	20.2	11.7	54	5.5	N	9	13	5	7	1019.5	1016.6	0
19/08:30 am	20.5	21	11.7	57	5	CALM	0	0	0	0	1019.7	1016.8	0

19/08:00 am	18.8	19.2	11.4	62	4.2	CALM	0	0	0	0	1019.5	1016.6	0
19/07:30 am	17.2	17.6	11.2	68	3.3	CALM	0	0	0	0	1019.3	1016.4	0
19/07:00 am	14.6	15	11.2	80	1.9	CALM	0	0	0	0	1018.9	1016	0
19/06:30 am	13	12.5	10.9	87	1.1	ENE	4	7	2	4	1018.5	1015.6	0
19/06:00 am	12	12	9.7	86	1.2	CALM	0	0	0	0	1018.3	1015.4	0
19/05:30 am	12.2	12.2	9.8	85	1.3	CALM	0	0	0	0	1018	1015.1	0
19/05:00 am	12.9	13.1	10.4	85	1.3	CALM	0	0	0	0	1017.8	1014.9	0
19/04:30 am	13.1	13.1	9.9	81	1.7	CALM	0	0	0	0	1017.7	1014.8	0
19/04:00 am	13.5	13.6	10.1	80	1.8	CALM	0	0	0	0	1017.8	1014.9	0
19/03:30 am	13.6	13.7	10.2	80	1.8	CALM	0	0	0	0	1017.8	1014.9	0
19/03:00 am	14.3	14.4	10.1	76	2.2	CALM	0	0	0	0	1017.8	1014.9	0
19/02:30 am	15.1	15.2	10.1	72	2.7	CALM	0	0	0	0	1018	1015.1	0
19/02:00 am	15.6	15.6	9.9	69	3.1	CALM	0	0	0	0	1018.3	1015.4	0
19/01:30 am	16.7	16	9.9	64	3.7	ESE	4	7	2	4	1018.4	1015.5	0
19/01:00 am	16.8	16.7	9.5	62	3.9	CALM	0	0	0	0	1018.6	1015.7	0
19/12:30 am	17.7	17.4	10.1	61	4.2	E	2	6	1	3	1018.8	1015.9	0
19/12:00 am	18.5	18.7	10.6	60	4.4	CALM	0	0	0	0	1018.9	1016	0

Date/Time EDT	Tmp °C	App Tmp °C	Dew Point °C	Rel Hum %	Delta-T °C	Wind					Press QNH hPa	Press MSL hPa	Rain since 9 am mm
						Dir	Spd km/h	Gust km/h	Spd kts	Gust kts			
18/11:30 pm	19.5	19.2	10.2	55	5.1	SSW	2	7	1	4	1018.9	1016	0
18/11:00 pm	20	18.8	9.6	51	5.7	S	6	9	3	5	1018.9	1016	0
18/10:30 pm	20.6	20.5	10.7	53	5.6	S	2	7	1	4	1018.7	1015.8	0
18/10:00 pm	22.6	21.4	10.4	46	6.9	E	7	17	4	9	1018.6	1015.7	0
18/09:30 pm	23.3	21.2	11	46	7	E	13	19	7	10	1018.2	1015.3	0
18/09:00 pm	24.2	22.4	12.2	47	7	E	13	20	7	11	1017.8	1014.9	0
18/08:30 pm	25.2	23.4	12.1	44	7.7	ENE	13	19	7	10	1017.5	1014.5	0
18/08:00 pm	26.5	23.8	10.2	36	9.3	ENE	15	22	8	12	1016.8	1013.9	0
18/07:30 pm	28.1	25.5	7.9	28	11.2	NW	11	19	6	10	1016.3	1013.4	0
18/07:00 pm	28.9	26.4	8	27	11.7	NNW	11	17	6	9	1016.1	1013.2	0
18/06:30 pm	28.5	26.3	7.7	27	11.5	NW	9	17	5	9	1016	1013	0
18/06:00 pm	29.7	26.8	8.2	26	12.1	WNW	13	20	7	11	1015.8	1012.8	0
18/05:30 pm	29.6	27.1	8.1	26	12.1	NNW	11	17	6	9	1015.9	1012.9	0
18/05:00 pm	28.3	25.3	7.5	27	11.5	NW	13	17	7	9	1016.2	1013.3	0
18/04:30 pm	29.5	26.7	6.8	24	12.5	WNW	11	22	6	12	1016.3	1013.4	0



From: [Clayton, Des](#)
To: s41(1)
Cc: [Power, David](#)
Subject: FW: covering of landfill face
Date: Wednesday, 27 January 2016 8:40:00 AM
Attachments: [image001.gif](#)
Importance: High

s41(1),

Prior to making a determination it has been requested that I contact you for further information.

Could you please provide the specifications, length, width, thickness and number of mats used in covering of the active face at the end of day operations. Could you please also provide the details of how the active face is covered at the end of day operations for that area of exposed face not covered by the mats?

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: s41(1) [[mailto:s41\(1\)](mailto:s41(1))]
Sent: Thursday, 21 January 2016 2:07 PM
To: Clayton, Des
Subject: covering of landfill face

Dear Des,

As discussed REMONDIS would like to clarify the length of time ACT EPA want the landfill face fully covered at the end of each day. The reason we seek to clarify this is that covering the whole face impacts our operation financially.

The usual operation using the matts to cover the face are pulled on using a dozer at the end of the day and pulled off at the beginning of the day. This in total takes total of thirty minutes at the most.

Now we are starting one employee 45 minutes earlier to uncover waste using D7 dozer. At the end of the day it is taking an hour to two hours to cover the material, D7 dozer and sometimes a second machine.

The increased amount of cover also affects our possible monthly payment as per the Mugga Lane Landfill contract. The compaction ratio of the landfill effects the monthly amount we are paid and soil tonnage is not included in this calculation but takes up volume therefore decreasing the compaction ratio. This effect could be in the range of s43(1) to s43(1) per month. This doesn't take into account lost airspace for the Territory.

Increased costs s43(1) per month conservative
Lost revenue due to poor compaction s43(1) per month

If this was to continue much beyond the 31st January REMONDIS will have to approach ACT NOWaste for a modification to the contract.

Please review and advise.

Regards

REMONDIS Australia Pty Ltd
Waste Solutions

s41(1)
ACT Area Manager

1 John Cory Circuit Hume ACT 2609, Australia P.O. Box 9, Fyshwick ACT, Australia

Phone: s41(1)

Mobile: s41(1)

National Service Line: 13 73 73

Fax: s41(1)

s41(1) // www.remondis.com.au



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Australia // T +61 2 9032 7100 // F +61 2 9667 0994 // info@remondis.com.au //
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From: [Clayton, Des](#)
To: s41(1)
Cc: s41(1) [Power, David](#)
Subject: RE: Odour management plan
Date: Monday, 1 February 2016 2:09:00 PM

s41(1),

Environmental Quality has reviewed the Energy Developments works plans/ SWNS and has no comment.

It is the responsibility of the authorisation holder, Remondis Australia Pty Ltd to prevent emissions of landfill gas from exceeding the levels as specified in the BEPM and to undertake all practicable steps to minimise dust, noise and odour emissions from the landfill.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: s41(1) [mailto:s41(1)]
Sent: Friday, 29 January 2016 1:08 PM
To: Clayton, Des
Cc: s41(1)
Subject: FW: Odour management plan

Des,

This is the odour Management plan fro the EDL works in Stage 4 Mugga lane.

Regards

s41(1)

From: s41(1) [mailto:s41(1)]
Sent: Friday, 29 January 2016 12:17 PM
To: s41(1)
Cc: s41(1); s41(1); s41(1)
Subject: Odour management plan

Hi s41(1)

Thanks for the meeting this morning.

Please find attached documents to forward to the EPA as discussed.

Regards

s41(1) | Manager Landfill Gas
E N E R G Y D E V E L O P M E N T S
"leaders in clean energy"

s4 [REDACTED]
1([REDACTED]
1) [REDACTED]
[REDACTED]

 Lucas Heights 2 Power Station:

Little Forest Rd Lucas Heights

PO Box 49

Menai NSW 2234

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From: [Clayton, Des](#)
To: [s41\(1\)](#); [Power, David](#)
Cc: [s41\(1\)](#)
Subject: Direction
Date: Friday, 5 February 2016 12:10:00 PM
Importance: High

[s41\(1\)](#),

as a authorised officer under the *Environment Protection Act 1997* I hereby direct you to provide a work plan for the capping of the South East Extension and V notch southern batter at the Mugga Lane Resource Management Centre. The work plan is to be provided to Environmental Quality with 14 working days.

If you require any further information on the above please contact David Power, Manager Environmental Quality on 6207 5311.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: [Power, David](#)
To: [Clayton, Des](#); s41(1)
Cc: s41(1)
Subject: RE: Direction
Date: Friday, 5 February 2016 12:16:07 PM

s41(1)

In preparing the plan please note that there are various options under the BEPM for capping if suitable clay material is not readily available from ACT NOWaste.

Regards

David

From: Clayton, Des
Sent: Friday, 5 February 2016 12:10 PM
To: s41(1); Power, David
Cc: s41(1)
Subject: Direction
Importance: High

s41(1),

as a authorised officer under the *Environment Protection Act 1997* I hereby direct you to provide a work plan for the capping of the South East Extension and V notch southern batter at the Mugga Lane Resource Management Centre. The work plan is to be provided to Environmental Quality with 14 working days.

If you require any further information on the above please contact David Power, Manager Environmental Quality on 6207 5311.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: [Clayton, Des](#)
To: s41(1)
Cc: s41(
Subject: Odour complaint - MLRMC
Date: Tuesday, 9 February 2016 9:26:00 AM
Importance: High

s41,

we have received a further odour complaint this morning. Could you please provide the following information;

- a) Meteorological conditions at the site yesterday and this morning;
- b) Processing and/or composting of material undertaken during the period;
- c) Details of any projects currently being undertaken by third parties that may impact on the generation of odour;
- d) Details of any measures taken and/or proposed to be taken to deal with odour generation at your site;

If you could please provide a written response within 24 hours of the date and time of this email.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: [Clayton, Des](#)
To: s41(1)
Cc: s41(1)
Subject: Odour complaint- MLRMC
Date: Tuesday, 9 February 2016 9:23:00 AM
Importance: High

s41(1) ,

EQ has received a further odour complaint this morning. Could you please provide a response in regard to the below:

- a) Meteorological conditions at the site for the past 48 hours;
- b) Time and date stamped photographs of the active tip face including photographs showing intermediate and daily cover;
- c) Details of any projects currently being undertaken by third parties that may impact on the generation of odour;
- d) Details of any measures taken or proposed to be taken to deal with odour generation;
- e) The current level of the leachate dam.

If you could please provide a written response within 24 hours of the date and time of this email.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
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158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: [Power, David](#)
To: [Haraldson, Anthony](#)
Subject: Capping Clay
Date: Wednesday, 10 February 2016 9:10:00 AM
Attachments: [image001.jpg](#)

Anthony

We are keen to see final capping operations begin at Mugga and have requested a capping plan from Remondis by 25 February. So we can assess this plan can you please advise what is the volume of clay currently stored on site by ACT NOWaste for future capping operations. Can you also advise what plans ACT NOWaste have in place to source additional material for Remondis if the volume currently stored on site is insufficient for the required capping operations.

It would be greatly appreciated if you could respond by COB 19 February.

Regards

David

David Power | Manager Environmental Quality
Phone: 02 62075311 | Email: david.power@act.gov.au
Construction, Environment and Workplace Protection | Access Canberra | ACT Government
GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

Access Canberra logo



From: [Clayton, Des](#)
To: [Power, David](#)
Subject: FW: Odour management plan
Date: Wednesday, 10 February 2016 11:24:00 AM

Dave,

For your response.

Des

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT
Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box
158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: s41(1) [mailto:s41(1)]
Sent: Wednesday, 10 February 2016 11:24 AM
To: Clayton, Des
Cc: s41(1)
Subject: RE: Odour management plan

Des,

Remondis held a meeting with EDL yesterday and discussed timing of the planned gas pipe works at the Mugga Lane RMC.

EDL are planning to set up on the 24/02/16 with Run energy with the first drilling to start on the 29/02/16. EDL have been advised that the waste material removed from the drilling, is to be placed in the active cell at the time of drilling and is not to be stock piled.
Also it has been discussed that all wells are to be back filled and completed by close of business each day and are to monitor with Remondis the level of gas ,dust, noise and odour emissions from the works.

With this would the EPU require any other information before these work start on the 24/02/16..

Regards

s41(1)

Operations Manager ACT

REMONDIS Australia Pty Ltd
Waste Solutions

Mugga Lane, Symonston ACT 2609, Australia PO Box 9, Fyshwick ACT 2609, Australia
Phone: s41(1)
National Service Line: 13 73 73

Fax: s41(1)

www.remondis.com.au

s41(1)

From: Clayton, Des [<mailto:Des.Clayton@act.gov.au>]

Sent: Monday, 1 February 2016 2:10 PM

To: s41(1)

Cc: s41(1); Power, David

Subject: RE: Odour management plan

s41(1)

Environmental Quality has reviewed the Energy Developments works plans/ SWNS and has no comment.

It is the responsibility of the authorisation holder, Remondis Australia Pty Ltd to prevent emissions of landfill gas from exceeding the levels as specified in the BEPM and to undertake all practicable steps to minimise dust, noise and odour emissions from the landfill.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate

Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au

Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government

Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: s41(1) [[mailto:s41\(1\)](mailto:s41(1)@act.gov.au)]

Sent: Friday, 29 January 2016 1:08 PM

To: Clayton, Des

Cc: s41(1)

Subject: FW: Odour management plan

Des,

This is the odour Management plan fro the EDL works in Stage 4 Mugga lane.

Regards

s41(1)

From: s41(1) [[mailto:s41\(1\)](mailto:s41(1)@act.gov.au)]

Sent: Friday, 29 January 2016 12:17 PM

To: s41(1)

Cc: s41(1); s41(1)

Subject: Odour management plan

Hi s41(1)

Thanks for the meeting this morning.

Please find attached documents to forward to the EPA as discussed.

Regards

s41(1) | Manager Landfill Gas

E N E R G Y D E V E L O P M E N T S

"leaders in clean energy"

s4
1(
1)
[Redacted]

Lucas Heights 2 Power Station:

Little Forest Rd Lucas Heights

PO Box 49

Menai NSW 2234

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From: [Clayton, Des](#)
To: s41(1)
Cc: [Power, David](#)
Subject: RE: Direction
Date: Wednesday, 10 February 2016 12:00:00 PM

s41(1)

EQ is trying to be proactive and have all necessary information at hand to review and approve the work plan when submitted by Remondis.

To that end could you please forward a copy of the relevant section of Remondis contract with ACT NOWaste that relates to sourcing of material and capping.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: Power, David
Sent: Friday, 5 February 2016 12:16 PM
To: Clayton, Des; s41(1)
Cc: s41(1)
Subject: RE: Direction

s41(1)

In preparing the plan please note that there are various options under the BEPM for capping if suitable clay material is not readily available from ACT NOWaste.

Regards

David

From: Clayton, Des
Sent: Friday, 5 February 2016 12:10 PM
To: s41(1); Power, David
Cc: s41(1)
Subject: Direction
Importance: High

s41(1)

as a authorised officer under the *Environment Protection Act 1997* I hereby direct you to provide a work plan for the capping of the South East Extension and V notch southern batter at the

Mugga Lane Resource Management Centre. The work plan is to be provided to Environmental Quality with 14 working days.

If you require any further information on the above please contact David Power, Manager Environmental Quality on 6207 5311.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: s41(1)
To: Clayton, Des
Cc: s41(1)
Subject: RE: Odour complaint- MLRMC
Date: Wednesday, 10 February 2016 3:21:35 PM
Attachments: [observation 48hr 100216.xlsx](#)
[photo 1.jpg](#)
[ATT00001.txt](#)
[photo 2.jpg](#)
[ATT00002.txt](#)
[photo 3.jpg](#)

Des,

- a) See attached
- b) See attached.
- c) No activities that may impact odour are currently underway
- d) REMONDIS have not been notified that the odour is coming from the landfill so not measures are being considered.
- e) 20%

Could you please advise if REMONDIS are the only contractor on site that is being requested to provide this information. There is definite odour at times from other sources at MLRMC and it would seem logical and appropriate to be investigating all possible generators.

Regards

s41(1)

From: Clayton, Des [mailto:Des.Clayton@act.gov.au]
Sent: Tuesday, 9 February 2016 9:23 AM
To: s41(1)
Cc: s41(1)
Subject: Odour complaint- MLRMC
Importance: High

s41(1),

EQ has received a further odour complaint this morning. Could you please provide a response in regard to the below:

- a) Meteorological conditions at the site for the past 48 hours;
- b) Time and date stamped photographs of the active tip face including photographs showing intermediate and daily cover;
- c) Details of any projects currently being undertaken by third parties that may impact on the generation of odour;
- d) Details of any measures taken or proposed to be taken to deal with odour generation;
- e) The current level of the leachate dam.

If you could please provide a written response within 24 hours of the date and time of this email.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate

Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
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Latest Weather Observations for Tuggeranong

IDN60901

Issued at 2:41 pm EDT Wednesday 10 February 2016 (issued every 10 minutes, with the page automatically refreshed every 10 minutes)

[About weather observations](#) | [Map of Canberra area stations](#) | [Latest observations for Canberra area](#) | [Other Formats](#)

Name:
TUGGE
RANON
Station ID: G
070339 (ISABEL
LA
PLAINS)
AWS
Lat: - 35.42
Lon: 149.09
Height: 586.7 m

[Data from the previous 72 hours.](#) | [See also: Recent months at Tuggeranong](#)

Date/Time EDT	Tmp °C	App Tmp °C	Dew Point °C	Rel Hum %	Delta-T °C	Wind					Press QNH hPa	Press MSL hPa	Rain since 9 am mm
						Dir	Spd km/h	Gust km/h	Spd kts	Gust kts			
10/02:30 pm	29.8	27.9	15.1	40	9.2	N	19	30	10	16	1013.5	1010.7	0
10/02:00 pm	28.4	26.9	14.3	42	8.7	NNW	15	22	8	12	1014.2	1011.4	0
10/01:30 pm	27.9	26.6	15.9	48	7.6	N	17	30	9	16	1014.6	1011.8	0
10/01:00 pm	27.4	26.1	14.8	46	7.8	NNW	15	24	8	13	1015	1012.2	0
10/12:30 pm	27.1	25.8	15.8	50	7.1	N	17	26	9	14	1015.3	1012.5	0
10/12:00 pm	26.5	25.5	15.5	50	6.9	NNW	15	24	8	13	1016	1013.2	0
10/11:30 am	26.1	25.6	15.8	53	6.4	N	13	17	7	9	1016.4	1013.6	0
10/11:00 am	24.8	24.8	16.2	58	5.4	NNW	11	19	6	10	1016.8	1014	0
10/10:30 am	23.4	23.5	15.5	61	4.9	NNW	9	15	5	8	1017.1	1014.4	0
10/10:00 am	22.1	21.9	14.7	63	4.5	N	9	15	5	8	1017.5	1014.7	0
10/09:30 am	20.4	21.2	14.7	70	3.4	N	4	7	2	4	1017.9	1015.1	0
10/09:00 am	19.1	20	14.1	73	3	SW	2	7	1	4	1018	1015.2	-
10/08:30 am	18	19.2	13.9	77	2.4	CALM	0	0	0	0	1018.1	1015.3	-
10/08:00 am	16.9	17.7	13.6	81	1.9	ESE	2	7	1	4	1018	1015.2	-
10/07:30 am	15.4	16.5	13.4	88	1.1	CALM	0	0	0	0	1017.9	1015.1	-
10/07:00 am	13.5	14.3	12.7	95	0.4	CALM	0	0	0	0	1017.8	1015	-
10/06:30 am	13.3	14	12.2	93	0.6	CALM	0	0	0	0	1017.7	1014.9	-
10/06:00 am	13.6	14.3	12.3	92	0.7	CALM	0	0	0	0	1017.5	1014.7	-
10/05:30 am	14.1	14.9	12.7	91	0.8	CALM	0	0	0	0	1017.3	1014.6	-
10/05:00 am	14.4	15.3	13	91	0.8	CALM	0	0	0	0	1017.2	1014.5	-
10/04:30 am	14.4	15.2	12.4	88	1.1	CALM	0	0	0	0	1017.3	1014.6	-
10/04:00 am	14.9	15.3	12.4	85	1.4	ESE	2	7	1	4	1017.3	1014.6	-
10/03:30 am	15.4	15.1	12.7	84	1.5	ESE	6	6	3	3	1017.5	1014.7	-
10/03:00 am	15.9	16	12.8	82	1.8	ESE	4	7	2	4	1017.7	1014.9	0
10/02:30 am	16.4	17.4	13.3	82	1.8	CALM	0	0	0	0	1018	1015.2	-
10/02:00 am	16.1	16.9	12.7	80	1.9	CALM	0	0	0	0	1018.3	1015.5	-
10/01:30 am	17.3	17	13.2	77	2.4	E	7	11	4	6	1018.5	1015.8	-
10/01:00 am	17.7	16.9	13	74	2.7	ENE	9	13	5	7	1019	1016.3	-
10/12:30 am	18.3	18.2	13.8	75	2.6	ENE	7	11	4	6	1019.4	1016.6	-

10/12:00 am	18.7	18.8	14.4	76	2.5	NNE	7	9	4	5	1019.8	1017	-
Date/Time EDT	Tmp °C	App Tmp °C	Dew Point °C	Rel Hum %	Delta-T °C	Wind					Press QNH hPa	Press MSL hPa	Rain since 9 am mm
						Dir	Spd km/h	Gust km/h	Spd kts	Gust kts			
09/11:30 pm	19.1	19.3	14.6	75	2.7	N	7	9	4	5	1020	1017.3	-
09/11:00 pm	19.6	20	14.8	74	2.9	N	6	7	3	4	1020.1	1017.4	-
09/10:30 pm	20.2	20.1	15	72	3.1	NNE	9	13	5	7	1020.2	1017.5	-
09/10:00 pm	20.6	20.1	14.9	70	3.4	NE	11	20	6	11	1020.1	1017.4	-
09/09:30 pm	21.2	21.4	14.8	67	3.9	ENE	7	19	4	10	1019.8	1017	-
09/09:00 pm	22	21.1	14.9	64	4.3	ENE	13	26	7	14	1019.1	1016.4	0
09/08:30 pm	23.1	21.1	14.9	60	5	ENE	19	33	10	18	1018.6	1015.9	-
09/08:00 pm	24.6	22.7	14.1	52	6.3	ENE	17	28	9	15	1018.4	1015.6	-
09/07:30 pm	26	23.9	13.5	46	7.5	ENE	17	22	9	12	1018	1015.2	-
09/07:00 pm	26.6	24	13.7	45	7.8	ENE	20	28	11	15	1017.7	1014.9	-
09/06:30 pm	27.7	25.4	14	43	8.4	NE	19	32	10	17	1017.5	1014.7	-
09/06:00 pm	28.9	28.1	13.9	39	9.2	N	11	20	6	11	1017.5	1014.7	-
09/05:30 pm	28.4	28.3	13.9	41	8.9	N	7	17	4	9	1017.6	1014.8	-
09/05:00 pm	29.3	29	15.4	42	8.7	NNW	11	17	6	9	1017.9	1015.1	-
09/04:30 pm	29.2	29.4	14.6	41	9.1	NNE	7	15	4	8	1018.1	1015.3	-
09/04:00 pm	28.8	29.5	15.7	45	8.2	W	6	17	3	9	1018.5	1015.8	-
09/03:30 pm	28	27.7	14.3	43	8.4	N	9	17	5	9	1018.8	1016.1	-
09/03:00 pm	27.9	27.3	13.4	40	8.8	NE	9	15	5	8	1019.4	1016.6	0
09/02:30 pm	27.3	26.1	12.9	41	8.6	NW	11	20	6	11	1019.9	1017.1	-
09/02:00 pm	26.6	25.1	11.9	40	8.6	W	11	19	6	10	1020.3	1017.6	-
09/01:30 pm	26.4	25.3	13.2	44	7.9	WNW	11	17	6	9	1020.6	1017.9	-
09/12:30 pm	24.8	23.7	12.1	45	7.4	WNW	9	13	5	7	1021.6	1018.9	0
09/12:00 pm	24.2	23.8	13.1	50	6.6	WSW	7	9	4	5	1022	1019.3	0
09/11:30 am	23.4	23.1	13.3	53	6	E	7	13	4	7	1022.3	1019.6	0
09/11:00 am	23	22.9	13.2	54	5.8	SSE	6	11	3	6	1022.6	1019.9	0
09/10:30 am	21.7	21.4	13.3	59	5	SW	7	11	4	6	1022.7	1020	0
09/10:00 am	21.5	21.6	14.4	64	4.3	SE	7	13	4	7	1023	1020.2	0
09/09:30 am	21.3	21.1	13.5	61	4.6	NE	7	13	4	7	1023.1	1020.4	0
09/09:00 am	20.6	20.5	14	66	3.9	E	7	13	4	7	1023.1	1020.4	0
09/08:30 am	19.1	19.3	14.8	76	2.6	WSW	7	9	4	5	1023	1020.2	0
09/08:00 am	18.9	20	14.6	76	2.6	NE	2	6	1	3	1022.7	1020	0
09/07:30 am	18	18.4	14.7	81	2	SE	6	7	3	4	1022.6	1019.9	0
09/07:00 am	17.4	17.7	14.5	83	1.7	ESE	6	7	3	4	1022.3	1019.6	0
09/06:30 am	17.2	17.6	14.7	85	1.5	E	6	6	3	3	1022	1019.3	0
09/06:00 am	17.2	18.3	14.7	85	1.5	ESE	2	6	1	3	1021.7	1019	0
09/05:30 am	17.2	17.6	14.8	86	1.4	ESE	6	7	3	4	1021.5	1018.8	0
09/05:00 am	17.5	19.1	14.8	84	1.6	CALM	0	0	0	0	1021.4	1018.6	0

09/04:30 am	17.9	19.5	15	83	1.7	CALM	0	0	0	0	1021.3	1018.5	0
09/04:00 am	18.1	19.8	15.2	83	1.7	CALM	0	0	0	0	1021.3	1018.5	0
09/03:30 am	17.9	19.4	14.6	81	2	CALM	0	0	0	0	1021.3	1018.5	0
09/03:00 am	18	19.4	14.5	80	2.1	CALM	0	0	0	0	1021.4	1018.6	0
09/02:30 am	18.5	19.6	14.6	78	2.3	ESE	2	7	1	4	1021.4	1018.6	0
09/02:00 am	18.9	19.5	15.2	79	2.2	E	6	9	3	5	1021.6	1018.9	0
09/01:30 am	18.9	20.5	15	78	2.3	CALM	0	6	0	3	1021.6	1018.9	0
09/01:00 am	18.8	19.1	15.1	79	2.2	E	7	9	4	5	1021.7	1019	0
09/12:30 am	19.1	18.3	15	77	2.5	E	13	17	7	9	1021.8	1019.1	0
09/12:00 am	19.5	18.5	14.7	74	2.9	ENE	13	17	7	9	1021.9	1019.2	0
Date/Time EDT	Tmp °C	App Tmp °C	Dew Point °C	Rel Hum %	Delta-T °C	Wind					Press QNH hPa	Press MSL hPa	Rain since 9 am mm
						Dir	Spd km/h	Gust km/h	Spd kts	Gust kts			
08/11:30 pm	19.9	19.1	14	69	3.5	ENE	11	19	6	10	1021.8	1019.1	0
08/11:00 pm	20	19.7	13.2	65	4	ENE	7	11	4	6	1021.6	1018.9	0
08/10:30 pm	20.8	20.2	13.5	63	4.3	ENE	9	13	5	7	1021.5	1018.8	0
08/10:00 pm	21.4	20.5	13.6	61	4.6	ENE	11	17	6	9	1021.3	1018.5	0
08/09:30 pm	21.9	20.5	13.5	59	5	ENE	13	20	7	11	1021.1	1018.3	0
08/09:00 pm	22.6	20.9	13.7	57	5.3	ENE	15	22	8	12	1020.7	1018	0
08/08:30 pm	23.4	22.1	13.6	54	5.9	ENE	13	19	7	10	1020.1	1017.4	0
08/08:00 pm	24.7	23	13.6	50	6.7	ENE	15	26	8	14	1019.6	1016.8	0
08/07:30 pm	26	23.6	12.8	44	7.9	E	17	26	9	14	1019	1016.3	0
08/07:00 pm	27.6	25	12	38	9.2	ENE	17	28	9	15	1018.4	1015.6	0
08/06:30 pm	28.7	26.2	12.2	36	9.9	ENE	17	28	9	15	1018	1015.2	0
08/06:00 pm	29.8	27	11.3	32	10.9	NNE	17	26	9	14	1017.7	1014.9	0
08/05:30 pm	30.9	28.4	8	24	12.9	ESE	11	19	6	10	1017.8	1015	0
08/05:00 pm	30.8	28.2	7.9	24	12.9	SSE	11	19	6	10	1017.9	1015.1	0
08/04:30 pm	31	28	9.3	26	12.5	SE	15	22	8	12	1018.1	1015.3	0
08/04:00 pm	30.9	28.2	10.3	28	12	SSE	15	24	8	13	1018.2	1015.4	0
08/03:30 pm	30.4	27.2	7	23	13	SE	13	22	7	12	1018.5	1015.8	0
08/03:00 pm	30.5	27.8	8.8	26	12.4	S	13	22	7	12	1018.7	1016	0
08/02:30 pm	30.1	26.8	7.9	25	12.5	ESE	15	20	8	11	1019.1	1016.4	0
08/02:00 pm	29.6	26.8	8.6	27	11.9	SSE	13	24	7	13	1019.5	1016.7	0
08/01:30 pm	28.9	25	6.9	25	12.1	SSE	17	24	9	13	1019.7	1016.9	0
08/01:00 pm	29	26	7.6	26	11.9	S	13	26	7	14	1019.9	1017.1	0
08/12:30 pm	28.4	25.6	8.7	29	11.1	SE	13	19	7	10	1020.3	1017.6	0
08/12:00 pm	27.7	24.8	10.9	35	9.8	S	17	22	9	12	1020.6	1017.9	0
08/11:30 am	27	23.3	9.4	33	10	SSE	19	26	10	14	1020.9	1018.2	0
08/11:00 am	26.2	22.9	9.5	35	9.4	S	17	26	9	14	1021.1	1018.3	0
08/10:30 am	25	22	10.5	40	8.3	S	17	26	9	14	1021.2	1018.4	0
08/10:00 am	23.1	23.3	13	53	6	WNW	4	11	2	6	1021.3	1018.5	0

08/09:30 am	20.9	20.9	13.6	63	4.3	NE	6	7	3	4	1021.3	1018.5	0
08/09:00 am	19	20.1	13.6	71	3.2	CALM	0	0	0	0	1021.5	1018.8	0
08/08:30 am	17	17.7	13.3	79	2.1	W	2	6	1	3	1021.6	1018.9	0
08/08:00 am	15.4	15.5	12.7	84	1.5	W	4	7	2	4	1021.5	1018.8	0
08/07:30 am	13.8	14.7	13	95	0.5	CALM	0	0	0	0	1021.3	1018.5	0
08/07:00 am	12.8	13.6	12.6	99	0.1	CALM	0	0	0	0	1020.9	1018.2	0
08/06:30 am	12.1	12.6	11.6	97	0.3	CALM	0	0	0	0	1020.9	1018.2	0
08/06:00 am	12.3	12.9	11.8	97	0.3	CALM	0	0	0	0	1020.6	1017.9	0
08/05:30 am	13.2	14	12.7	97	0.3	CALM	0	0	0	0	1020.4	1017.7	0
08/05:00 am	13.4	14.2	12.6	95	0.4	CALM	0	0	0	0	1020.4	1017.7	0
08/04:30 am	13.6	14.5	12.8	95	0.5	CALM	0	0	0	0	1020.3	1017.6	0
08/04:00 am	14	15	13.1	94	0.5	CALM	0	0	0	0	1020.3	1017.6	0
08/03:30 am	14.7	15.7	13.2	91	0.9	CALM	0	0	0	0	1020.2	1017.5	0
08/03:00 am	15.2	16.4	13.7	91	0.9	CALM	0	0	0	0	1020.3	1017.6	0
08/02:30 am	15.7	17	14.1	90	0.9	CALM	0	0	0	0	1020.5	1017.8	0
08/02:00 am	16.4	17.7	14.2	87	1.3	CALM	0	2	0	1	1020.6	1017.9	0
08/01:30 am	17	18.5	14.6	86	1.4	CALM	0	0	0	0	1020.7	1018	0
08/01:00 am	17.5	19.1	14.8	84	1.6	CALM	0	0	0	0	1020.9	1018.2	0
08/12:30 am	18.3	20	15.2	82	1.9	CALM	0	0	0	0	1020.9	1018.2	0
08/12:00 am	18.3	19.7	14.4	78	2.3	CALM	0	0	0	0	1020.7	1018	0

Date/Time EDT	Tmp °C	App Tmp °C	Dew Point °C	Rel Hum %	Delta-T °C	Wind					Press QNH hPa	Press MSL hPa	Rain since 9 am mm
						Dir	Spd km/h	Gust km/h	Spd kts	Gust kts			
07/11:30 pm	19	20.5	14.7	76	2.6	CALM	0	0	0	0	1020.6	1017.9	0
07/11:00 pm	20.2	20.7	15	72	3.1	NNE	6	7	3	4	1020.4	1017.7	0
07/10:30 pm	20.8	20.8	15.1	70	3.5	E	9	13	5	7	1020.3	1017.6	0
07/10:00 pm	21.5	21.5	15.1	67	3.9	ENE	9	13	5	7	1020.1	1017.4	0
07/09:30 pm	22.3	21.7	14.7	62	4.6	E	11	15	6	8	1019.7	1016.9	0
07/09:00 pm	23.2	21.9	13.7	55	5.7	ENE	13	17	7	9	1019.1	1016.4	0
07/08:30 pm	23.8	22.5	12.4	48	6.7	ENE	11	17	6	9	1018.6	1015.9	0
07/08:00 pm	25.1	23.5	10.2	39	8.5	E	9	13	5	7	1018	1015.2	0
07/07:30 pm	26.2	23.6	9.5	35	9.4	ENE	13	22	7	12	1017.5	1014.7	0
07/07:00 pm	27.3	23.9	9.2	32	10.2	E	17	24	9	13	1016.9	1014.2	0
07/06:30 pm	27.9	24.5	9.2	31	10.6	E	17	24	9	13	1016.6	1013.8	0
07/06:00 pm	28.8	25.6	8.5	28	11.4	ENE	15	22	8	12	1016.4	1013.6	0
07/05:30 pm	29.5	28.4	10.6	31	11	WSW	7	13	4	7	1016.3	1013.5	0
07/05:00 pm	28.8	27.1	10	31	10.8	NE	9	17	5	9	1016.4	1013.6	0
07/04:30 pm	28.9	27.5	9.6	30	11.1	N	7	11	4	6	1016.4	1013.6	0
07/04:00 pm	28.5	27.3	10.2	32	10.6	SW	7	13	4	7	1016.6	1013.8	0
07/03:30 pm	27.5	25.6	8.9	31	10.5	ENE	9	13	5	7	1016.9	1014.2	0
07/03:00 pm	27.1	25.8	9.9	34	9.8	NE	7	9	4	5	1017.2	1014.5	0







From: [Haraldson, Anthony](#)
To: [Clayton, Des](#)
Cc: [Richards, Paul](#); [Power, David](#)
Subject: RE: Capping material
Date: Tuesday, 16 February 2016 1:56:50 PM

Hi Des

We have a meeting next Monday where the capping works can be discussed further. I'm not aware of any instruction, however available clay has been sourced by ACT NOWaste.

Regards

ANTHONY HARALDSON

Senior Contracts Officer
Mugga Lane Resource Management Centre and Hume Resource Recovery Estate

ACT NOWASTE

☎ 6207 5345 | 📠 6207 6255 | 📞 0478 405 793 |

From: Clayton, Des
Sent: Friday, 12 February 2016 1:00 PM
To: Haraldson, Anthony
Cc: Richards, Paul; Power, David
Subject: RE: Capping material

Hi Anthony,

Thank you for the clarification and below information. EQ seeks further clarification on the subject, has the Territory issued an instruction to the contractor to source the required material as per contract conditions?

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: Haraldson, Anthony
Sent: Friday, 12 February 2016 12:09 PM
To: Clayton, Des
Cc: Richards, Paul; Power, David
Subject: RE: Capping material

Hi Des

I can confirm the clause you have quoted is from the Landfill Contract. An email was sent to the Master Builders Association late last year requesting capping clay from their members. A refresh request will be sent next week for clay at Mugga.

I've found a couple potential clay sources at Braddon and one on the horizon at Barton. Once confirmed as meeting specification, including VENM clearance, arrangements for delivery to Mugga will be made.

Regards

ANTHONY HARALDSON

Senior Contracts Officer
Mugga Lane Resource Management Centre and Hume Resource Recovery Estate

ACT NOWASTE

☎ 6207 5345 | 📠 6207 6255 | 📞 0478 405 793 |

From: Clayton, Des
Sent: Thursday, 11 February 2016 8:11 AM
To: Haraldson, Anthony
Cc: Richards, Paul; Power, David
Subject: Capping material

Anthony,

As you are aware EQ is trying to gather all information for capping requirements at the MLRMC and I have question regarding a condition of contract C07266.

As you advised I have looked a the relevant section of the contract D4.20 part ii) which states:

“The Interim Capping Layer will be placed progressively as the Landfill Area reaches final height and must be in place within a maximum of 12 weeks from the date of the Interim Capping Layer material being made available by the Territory or from the date the Territory issues an instruction to the Contractor to source the required material”.

I read the above clause that the Territory is clearly responsible for making capping material available either directly or via an instruction?

Your thoughts?

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government
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From: [Hagan, Scott](#)
To: [Haraldson, Anthony](#)
Cc: [Power, David](#); [Vasudevan, Uma](#); [McHugh, Ben](#)
Subject: RE: Ministerial odour complaints MLRMC
Date: Tuesday, 16 February 2016 8:13:16 AM

Hi Anthony / Dave,

SE extension leachate transfer pipeline.

Works comprised excavating a trench with a width of approx 1m and to an approx depth of 0.5m. A clay capping layer was then backfilled/placed in the trench and the pipeline installed within the capping layer.

Works were completed in stages with excavation commencing 4 Dec 2015 and completed 18 Dec 2015 – works were progressively excavated and capped in 50 to 100m lengths. The capping was also completed on the 18 Dec 2015 with all remaining material covered by 24 Dec 2015 to ensure completion for the Christmas period. Works during January/February 2016 comprised concrete headwall construction into the leachate dam and installation of flowmetres and inspection points along with final clay capping over the pipeline.

Odour monitoring was carried out during December and January. The monitoring was undertaken: -

1. Adjacent to the works
2. At the Mugga Lane RMC boundaries
3. Along Mugga Lane/Long Gully Road
4. Within the suburbs of Fadden / Macarthur / the surrounding "Hills" areas

Whilst general "landfill/putrescible waste" odour was detected adjacent to the works (within a 100m radius), no odour was detected at locations 2, 3 & 4.

My observations are as follows:-

9 Dec – Periodically throughout the day: No putrescible odour detected at Mugga Lane Boundaries or along Long Gully Road. Odour detected approx 100m radius downwind of works onsite (wind direction towards the MRF)

11 Dec – Periodically throughout the day: No putrescible odours detected at the Mugga Lane Boundaries.

14 Dec – Periodically throughout the day: No putrescible odours detected at the Mugga Lane Boundaries –or along Long Gully Road / Monaro Highway

18 Dec – Periodically throughout the day: No putrescible odours detected at the Mugga Lane Boundaries or along Long Gully Road / Monaro Highway.

4/1/16 between 1400 and 1500 - typical putrescible/organics odour within the boundaries around the internal roadways. No odour detected at site boundary along Mugga Lane/Long Gully Road. No putrescible odours detected within the suburbs. Very slight/very minor "sewer" odour along Coyne Street. General wind direction at Mugga RMC - S to SE

5/1/16 between 0830 to 0930 and 1230 to 1330 - typical putrescible/organics odour within the boundaries around the internal roadways, slightly stronger

than yesterday. No odour detected at site boundary along Long Gully Road - very slight organics odour around front entrance on Mugga Lane. No putrescible odours detected within the suburbs. General wind direction at Mugga RMC - N to NE and stronger than yesterday / raining.

It is important to note that at no stage during the works (Dec 15 / Jan 16), neither PCW/CWDD/GHD/Remondis detected odour that required any additional action/change in work practice. Odour was not detected at the landfill boundaries or beyond the boundaries.

Regards,

Scott Hagan

Capital Works, Design and Delivery (CWDD)

From: Haraldson, Anthony
Sent: Monday, 15 February 2016 4:34 PM
To: Hagan, Scott
Cc: Power, David
Subject: FW: Ministerial odour complaints MLRMC

Hi Scott

Can you please provide input to the below- David should have sent it to you. Start dates of the works, when it was covered, when all works were complete etc.

Regards

ANTHONY HARALDSON

Senior Contracts Officer
Mugga Lane Resource Management Centre and Hume Resource Recovery Estate

ACT NOWASTE

☎ 6207 5345 | 📠 6207 6255 | 📞 0478 405 793 |

From: Power, David
Sent: Monday, 15 February 2016 4:31 PM
To: Haraldson, Anthony
Subject: RE: Ministerial odour complaints MLRMC

Anthony

Can you help with this question from the Lawder QTON

Dave

Can the Minister provide details of when drainage piping work was conducted at the Mugga Lane tip in November 2015, December 2015, January 2016 and February 2016.

From: Haraldson, Anthony
Sent: Monday, 15 February 2016 4:23 PM
To: Power, David
Subject: RE: Ministerial odour complaints MLRMC

Hi David

In addition to the below, ACT NOWaste officers have attended the MLRMC and/or surrounding suburbs on the below dates:

22/01/2016
27/01/2016
29/01/2016
04/02/2016
10/02/2016
11/02/2016
14/02/2016
15/02/2016




As of Thursday 11 February, ACT NOWaste will be undertaking more frequent visits of the Mugga Lane RMC and surrounds, at differing times, to try and detect any odours.

Regards

ANTHONY HARALDSON

Senior Contracts Officer
Mugga Lane Resource Management Centre and Hume Resource Recovery Estate

ACT NOWASTE

 6207 5345 |  6207 6255 |  0478 405 793 |

From: Haraldson, Anthony
Sent: Thursday, 14 January 2016 12:17 PM
To: Power, David
Cc: Trushell, Michael; Richards, Paul
Subject: RE: Ministerial odour complaints MLRMC

Hi David

ACT NOWaste officers inspected the Mugga site on the below dates.

Thursday 05/11/2015
Monday 16/11/2015
Thursday 19/11/2016
Tuesday 24/11/2015
Monday 07/12/2015
Thursday 10/12/2015
Monday 21/12/2015
Thursday 07/01/2016

Thursday 14/01/2016

Regards

ANTHONY HARALDSON

Senior Contracts Officer
Mugga Lane Resource Management Centre and Hume Resource Recovery Estate

ACT NOWASTE

☎ 6207 5345 | 📠 6207 6255 | 📞 0478 405 793 |

From: Power, David
Sent: Thursday, 14 January 2016 11:24 AM
To: Haraldson, Anthony
Subject: RE: Ministerial odour complaints MLRMC
Importance: High

Anthony

I also need the dates that ACT NoWaste officers have visited the sites since mid November.

Dave

From: Haraldson, Anthony
Sent: Wednesday, 13 January 2016 4:37 PM
To: Clayton, Des
Cc: Power, David
Subject: RE: Ministerial odour complaints MLRMC

Hi Des

I've attached my odour complaint register. There were 11 complaints, 5 of those were from Richard s41(1), resident of s41(1). Richard may have made further complaints to Jonathan Medwin throughout the year that were not forwarded to me.

The attached list does not include enquiries from the media.

Regards

ANTHONY HARALDSON

Senior Contracts Officer
Mugga Lane Resource Management Centre and Hume Resource Recovery Estate

ACT NOWASTE

☎ 6207 5345 | 📠 6207 6255 | 📞 0478 405 793 |

From: Clayton, Des

Sent: Wednesday, 13 January 2016 2:36 PM
To: Haraldson, Anthony
Subject: RE: Ministerial odour complaints MLRMC

Hi Anthony,

From March 2015, that's the date we are going with.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
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158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: Haraldson, Anthony
Sent: Wednesday, 13 January 2016 2:33 PM
To: Clayton, Des
Subject: RE: Ministerial odour complaints MLRMC

Hi Des




From what period? March 2015?

Regards

ANTHONY HARALDSON

Senior Contracts Officer
Mugga Lane Resource Management Centre and Hume Resource Recovery Estate

ACT NOWASTE

 6207 5345 |  6207 6255 |  0478 405 793 |

From: Clayton, Des
Sent: Wednesday, 13 January 2016 2:24 PM
To: Haraldson, Anthony
Cc: Trushell, Michael; Power, David
Subject: Ministerial odour complaints MLRMC
Importance: High

Anthony,

Dave is working on a response to the attached Ministerial. One of the questions asked is how many complaints TAMSD received regarding odour from the MLRMC precinct. Could you please advise.

We would appreciate a response this afternoon if possible as the Ministerial is overdue!

Thank you for your assistance.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate

Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au

Construction, Environment and Workplace Protection Division | Access Canberra | ACT

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From: Power, David

Sent: Wednesday, 13 January 2016 2:04 PM

To: Clayton, Des

Subject:

From: s41(1)
To: [Clayton, Des](mailto:Des.Clayton@act.gov.au)
Cc: s41(1)
Subject: RE: Odour complaint
Date: Monday, 22 February 2016 1:12:14 PM
Attachments: [IDCJDW2802.201602.pdf](#)
[photo 1.jpg](#)
[photo 2.jpg](#)

Des,

- a) Please see attached
- b) Please see attached
- c) No projects currently under way which impact odour generation
- d) Increased cover of active face and decreased size of active face. Extra cover material being applied on batters to south.
- e) 20%

Regards

s41(1)

From: Clayton, Des [mailto:Des.Clayton@act.gov.au]
Sent: Wednesday, 17 February 2016 9:25 AM
To: s41(1)
Cc: s41(1)
Subject: Odour complaint

s41(1),

we have received a further odour complaint yesterday morning. Therefore could you please provide a response in regard to the below:

- a) Meteorological conditions at the site for the past 48 hours;
- b) Time and date stamped photographs of the active tip face including photographs showing intermediate and daily cover;
- c) Details of any projects currently being undertaken by third parties that may impact on the generation of odour;
- d) Details of any measures taken or proposed to be taken to deal with odour generation;
- e) The current level of the leachate dam.

If you could please provide a written response within 24 hours of the date and time of this email.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government
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Tuggeranong, Australian Capital Territory February 2016 Daily Weather Observations



Australian Government
Bureau of Meteorology

Date	Day	Temps		Rain mm	Evap mm	Sun hours	Max wind gust			9am					3pm							
		Min	Max				Dirn	Spd	Time	Temp	RH	Cld	Dirn	Spd	MSLP	Temp	RH	Cld	Dirn	Spd	MSLP	
		°C	°C					km/h	local	°C	%	eighths		km/h	hPa	°C	%	eighths		km/h	hPa	
1	Mo	12.2	21.4	9.0			SSW	33	14:24	13.1	99		WSW	4	1002.7	20.1	59		N	9	1000.7	
2	Tu	9.3	26.1	15.6			ESE	44	20:17	16.0	76		ESE	2	1005.8	25.0	38		W	13	1002.5	
3	We	14.8	27.0	0			SSE	30	16:20	18.9	76		Calm		1003.1	23.4	57		SE	13	1002.8	
4	Th	14.1	24.7	6.8			SSE	50	02:46	15.5	72		S	28	1013.6	23.3	43		S	20	1012.3	
5	Fr	13.3	23.3	0			S	44	00:58	15.9	66		S	19	1018.4	22.9	44		ESE	20	1016.9	
6	Sa	14.7	24.9	0			E	30	09:51	17.7	64		ESE	11	1018.8	23.5	47		E	11	1015.6	
7	Su	9.4	29.7	0			E	26	17:42	15.9	77		Calm		1017.9	27.1	34		NE	7	1014.5	
8	Mo	12.0	31.5	0			S	31	13:19	19.0	71		Calm		1018.8	30.5	26		S	13	1016.0	
9	Tu	17.2	29.6	0						20.6	66		E	7	1020.4	27.9	41		NE	9	1016.6	
10	We	13.3	31.7				NNW	31	12:35	19.1	73		SW	2	1015.2	30.4	29		NNW	17	1010.2	
11	Th	15.4	29.1	0			ESE	50	15:32	21.4	70		Calm		1014.5	27.9	45		ENE	15	1011.6	
12	Fr	15.4	29.3	0			ENE	30	19:11	19.6	76		NE	9	1016.4	26.4	49		WNW	13	1012.9	
13	Sa	16.1	32.0	0			WNW	39	14:43	21.3	78		WSW	6	1013.3	31.4	25		WNW	19	1008.9	
14	Su	15.5	32.2	0			WNW	50	13:35	22.6	59		E	2	1008.2	31.4	25		WNW	19	1006.5	
15	Mo	17.3	28.9	0			WNW	43	22:01	18.8	72		ENE	4	1011.6	26.9	41		NNW	11	1006.9	
16	Tu	9.3	26.4	0			NW	43	14:33	17.0	53		NNW	2	1008.8	26.0	34		NNW	22	1006.0	
17	We	10.4	25.2	0			SSE	30	05:05	13.7	49		S	17	1010.9	22.7	40		NW	13	1006.5	
18	Th	9.3	28.6	0			ENE	33	19:33	16.2	63		Calm		1009.0	26.7	33		NW	11	1005.9	
19	Fr	15.9	30.3	0			W	31	13:47	20.0	71		NW	4	1011.0	29.7	26		W	19	1009.0	
20	Sa	13.9	30.0	0			NE	43	17:21	19.3	75		ENE	11	1017.9	27.1	40		W	9	1016.3	
21	Su	17.4	29.2	0			ENE	37	19:06	18.9	74		N	2	1025.2	27.0	43		N	13	1022.6	
22	Mo	13.9		0						20.5	71		SE	2	1024.6							
Statistics for the first 22 days of February 2016																						
Mean		13.6	28.1							18.2	70			6	1013.9	26.5	39			14	1010.5	
Lowest		9.3	21.4							13.1	49		Calm		1002.7	20.1	25		NE	7	1000.7	
Highest		17.4	32.2	15.6			#	50		22.6	99		S	28	1025.2	31.4	59		NNW	22	1022.6	
Total				31.4																		





I would rather be a recycling truck!

SALVOS
STOP
Pick-up 13 SALVOS (13 7...)

From: s41(1)
To: [Clayton, Des](#); [Power, David](#)
Subject: capping works SEE and V Notch
Date: Wednesday, 24 February 2016 3:16:40 PM
Attachments: [image001.gif](#)
[Capping works 240216.pdf](#)

Dear David,

Please find works programme for the capping works of the South East Extension and V-Notch at Mugga Lane Landfill.

Regards

REMONDIS Australia Pty Ltd
Waste Solutions

s41(1)
ACT Area Manager

1 John Cory Circuit Hume ACT 2609, Australia P.O. Box 9, Fyshwick ACT, Australia

Phone: s41(1)

Mobile: s41(1)

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Fax: s41(1)

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24th February 2016

Mr David Power
Environment Protection Authority
Environment Protection Unit
PO Box 158
Canberra ACT 2601

Dear David,

RE: WORK PLAN FOR CAPPING SOUTH EAST EXTENSION AND V NOTCH AT MUGGA LANE LANDFILL

The below work plan is for the works associated with capping the areas known as South East Extension and V- Notch at Mugga Lane Landfill. The works plan also takes in the surveys and NATA registered laboratory testing required as per the referenced documents.

Documents and clauses referenced when providing the below work plan.

Services Agreement Management of the site services and landfill operations at the Mugga Lane Resource Management Centre.

NSW Environmental Guidelines Solid Waste Landfills

Capping Works Programme and Dates

Reshaping of entire batter from V-Notch to South East Extension to prepare for capping material. Completed 24 February 2016.

REMONDIS will provide to ACT EPA a survey detailing surface area of the V-Notch and South East Extension to be capped with a model showing the RLs of finished surface design by 11th March 2016

The survey will provide the volumes of material required which will be sought through contractual agreement with ACT NOWaste. 11th March 2016.

Materials to be stockpiled at site and sampled for testing through a NATA accredited laboratory. Results to be provided to ACT EPA. 31st March to 15 April 2016.

Capping works to commence 11th May 2016

Specification Details

REMONDIS provide two specifications for capping on the 2007 to 2015 cell at Mugga Lane landfill for consideration by ACT EPA. We advise that both are different to the specification in the contract and therefore there must be allowance by ACT EPU for REMONDIS to advise and negotiate terms with ACT NOWaste.

REMONDIS Australia Pty Ltd // 1 Recycling Loop // Hume ACT 2609 // Australia

REMONDIS request a joint meeting with ACT NOWaste and ACT EPU to review both specifications and come to agreement which one should be implemented.

REMONDIS may look at another specification if so directed by ACT NOWaste or ACT EPU through an experienced landfill design engineer or firm which satisfy the NSW Environmental Guidelines Solid Waste Landfills

All works during capping will be undertaken so as no instance of waste exposure occurs. If this may occur works will be delayed until ACT EPU is notified.

Specification 1

NSW Solid Waste Landfills - Section 28 Site Capping and Revegetation.

- Clay layer of > 0.5m of permeability less than $1 \times 10^{-8} \text{ ms}^{-1}$
- Drainage layer >0.3 m of permeability less than $1 \times 10^{-5} \text{ ms}^{-1}$
- Revegetation layer of > 0.1m.

Specification 2

Current practice on site to cap older cells(pre 2007)

- Clay layer of > 0.6m of permeability less than $1 \times 10^{-9} \text{ ms}^{-1}$
- Revegetation layer of > 0.3m.

Please contact me to discuss the above details or if you require further information.

I await your reply.

Yours sincerely

s41(1)

s41(1)

Manager ACT Area
Waste Management
REMONDIS Australia Pty Ltd

From: [Power, David](#)
To: s41(1)
Subject: RE: POEO Act - Offensive Odour
Date: Monday, 29 February 2016 1:17:00 PM
Attachments: [image001.jpg](#)
[image002.jpg](#)

G'day s41(1)

We are still getting complaints regarding odour from our landfill, which being an election year is getting a bit of traction (too much) politically. After a meeting on Friday it was decided to undertake some odour modelling. Before we head down that path I'd like to talk to someone in your air modelling team in Sydney as I know you said last time you did something similar for Woodlawn and the complaints you were receiving.

I've previously dealt with s41(1). Is he the best person to deal with regarding landfill odour?

I look forward to your assistance.

Regards

David

From: s41(1) [s41(1)]@epa.nsw.gov.au
Sent: Monday, 21 December 2015 4:01 PM
To: Power, David
Subject: POEO Act - Offensive Odour

POEO definition:

129 Emission of odours from premises licensed for scheduled activities

1. The occupier of any premises at which scheduled activities are carried on under the authority conferred by a licence must not cause or permit the emission of any offensive odour from the premises to which the licence applies.
2. It is a defence in proceedings against a person for an offence against this section if the person establishes that:
 - a. the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of the licence directed at minimising the odour, or
 - b. the only persons affected by the odour were persons engaged in the management or operation of the premises.
3. A person who contravenes this section is guilty of an offence.

Offensive Odour is defined as:

offensive odour means an odour:

1. that, by reason of its strength, nature, duration, character or quality, or the time at which it is emitted, or any other circumstances:
2. is harmful to (or is likely to be harmful to) a person who is outside the premises from which it is emitted, or
3. interferes unreasonably with (or is likely to interfere unreasonably with) the comfort or repose of a person who is outside the premises from which it is emitted, or
4. that is of a strength, nature, duration, character or quality prescribed by the regulations or that is emitted at a time, or in other circumstances, prescribed by the regulations.

s41(1)

A/Manager Regional Waste Compliance

Waste & Resource Recovery, NSW Environment Protection Authority

s41(1)

s41(1) [@epa.nsw.gov.au](mailto:s41(1)@epa.nsw.gov.au) www.epa.nsw.gov.au [@EPA.NSW](mailto:s41(1)@EPA.NSW)

Report pollution and environmental incidents on 131 555 (NSW only) or +61 2 9995 5555



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PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL

From: s41(1)
To: [Power, David](#); [Clayton, Des](#)
Cc: s41(1); [Haraldson, Anthony](#); [Richards, Paul](#)
Subject: Surface area
Date: Wednesday, 2 March 2016 11:41:11 AM
Attachments: [image001.gif](#)
[AS0100 Mugga Lane landfill - Aerial survey - 2 February 2016.pdf](#)

Dear David,

As detailed in the works plan for covering the V-notch and south East Extension landfill at Mugga lane we provide the attached survey showing the surface area measurement.

The area we outlined and provided the surveyor came to 7.83 Ha or 78,300 square metres.

Please advise if the area outlined is as required by ACT EPA or other. Please call to discuss.

The next step in the process is to meet with ACT NOWaste about material supply volumes and timing. Also having material tested to the specification.

If you require anything further at this stage please contact me.

Regards

REMONDIS Australia Pty Ltd
Waste Solutions

s41(1)
ACT Area Manager

1 John Cory Circuit Hume ACT 2609, Australia P.O. Box 9, Fyshwick ACT, Australia

Phone: s41(1)

Mobile: +s41(1)

National Service Line: 13 73 73

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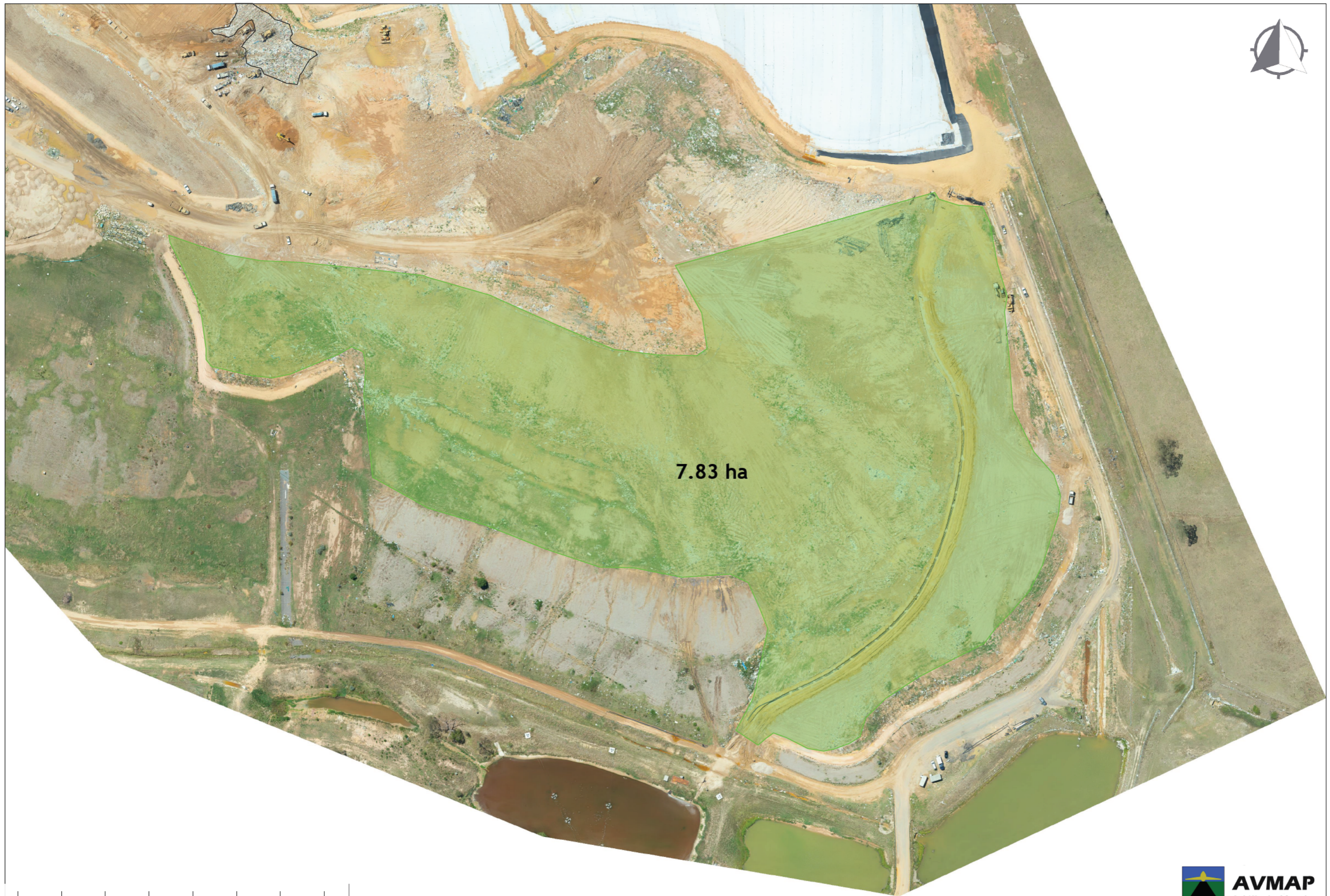
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7.83 ha



From: [Power, David](#)
To: s41(1)
Subject: RE: Surface area
Date: Thursday, 3 March 2016 11:08:00 AM
Attachments: [image001.gif](#)

s41(1)

The 2007-2014 cell was designed by NoWaste in accordance with the NSW guidelines so I'm not sure why the contract would specify a cap which doesn't meet the guidelines. There has been considerable discussion regarding this issue in the past which is why we settled on the requirements in the post closure plan. I'll take this up with ACT NoWaste.

Obviously the newer cells have been constructed in accordance with the Vic BEPM and will need to be capped in accordance with the performance standard contained in Section 8.1 of that document. I am also lead to believe that this may need to be a phytocap in accordance with the EIS and DA approvals.

Regards

David

From: s41(1) [mailto:s41(1)]
Sent: Wednesday, 2 March 2016 7:16 PM
To: Power, David
Subject: RE: Surface area

Dear David,

I can advise that the area in question has been capped to the specification as outlined in the contract. This work pre dates the attached letter. The capping was minimum 600mm clay (perm @ 10 to minus 7) and 100mm of soil and the mulch. I can say with absolute confidence that the capping is 600mm to 1000mm and soil layer was 100mm plus mulch. The mulch doesn't meet BEPM specification.

With the advice provided in your email below we have to accept that this capping completed some years ago doesn't meet the required specification and therefore the area must be redone to achieve the required spec as outlined in the attached email and letter. Please note we have never received this letter or been provided direction from ACT NOWaste in line with the attached details.

I will have the surveyor recalculate the surface area and provide details of the resulting calculation.

We will provide the two calculations, one which has been already provided and two the area which has been partially capped. The reason for this approach is that we probably treat the two areas differently with REMONDIS providing a different final specification for the partially capped area compared to the non-capped area. We will discuss this and communicate this as final agreement on a way forward, while negotiating with ACT NOWaste.

Next step is to advise ACT EPU of the two separate surface areas then provide final construction details of the capping for each. This will occur in line with ACT NOWaste.

Please call me if you wish to discuss further.

Regards

s41(1)

From: Power, David [<mailto:DAVID.POWER@act.gov.au>]
Sent: Wednesday, 2 March 2016 4:20 PM
To: s41(1)
Subject: RE: Surface area

s41(1)

As discussed the whole of the landfill cap needs to be done in accordance with the approved post closure plan. See attached approval letter sent to David Roberts. When I spoke to you earlier I said it would be easier to cap as the spec for clay was less what I should have said was the depth was less, 500mm rather than 600mm. The revegetation layer needs to be 300mm and mulch can only be used where it meets the BEPM.

Based on your verbal advice it would appear that the area of the 2007-2014 landfill cap excluded from the surface area calculations in your attachment have not been capped to the specification outlined in the post closure plan. Can you please provide details as to how this area was capped, in particular the depth of both the clay cap and revegetation layer and assessment of the mulch against the criteria in the BEPM.

Regards

David

From: s41(1) [[mailto:s41\(1\)](mailto:s41(1)@act.gov.au)]
Sent: Wednesday, 2 March 2016 11:40 AM
To: Power, David; Clayton, Des
Cc: s41(1); Haraldson, Anthony; Richards, Paul
Subject: Surface area

Dear David,

As detailed in the works plan for covering the V-notch and south East Extension landfill at Mugga lane we provide the attached survey showing the surface area measurement.

The area we outlined and provided the surveyor came to 7.83 Ha or 78,300 square metres.

Please advise if the area outlined is as required by ACT EPA or other. Please call to discuss.

The next step in the process is to meet with ACT NOWaste about material supply volumes and timing. Also having material tested to the specification.

If you require anything further at this stage please contact me.

Regards

REMONDIS Australia Pty Ltd
Waste Solutions

s41(1)

ACT Area Manager

1 John Cory Circuit Hume ACT 2609, Australia P.O. Box 9, Fyshwick ACT, Australia

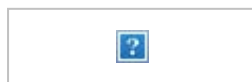
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From: [Power, David](#)
To: [Corrigan, Margarete](#)
Cc: [Jones, Greg](#); [Gioffre, Tina](#)
Subject: RE: Tuggeranong Odour - list of all actions/timeline of actions undertaken by EPA - DUE 12.30pm 10/3
Date: Thursday, 10 March 2016 9:58:00 AM
Attachments: [image002.jpg](#)
[image003.jpg](#)

Margarete

Here's a little brain dump.

Dave

Dates are in the QTB.

Inspections within the Mugga Lane Resources Management Facility includes driving and walking around the two operational areas within the precinct that has the potential to generate odour to observe operations, climatic conditions and detect odour, if any.

For the active cell at the landfill this involves checking the size of the operational area, any smell at the tipping face, weather conditions, the current level of the leachate dam, check of other onsite water management infrastructure and note if there is any other work being undertaken on site by third party contractors.

Corkhill's, check general operations conditions, if grinding of green waste or wind row turning has been recently undertaken, amount of material stockpiled on site, weather conditions, the general odour, if any.

Both onsite contractors are e-mailed a standard format set of questions when Environmental Quality receives a complaint from the public.

Residential areas; general drive around the area stopping at several locations to note odour, if any, general walk around areas including nature parks to check on odour, if any, speak to anyone that may be using nature park at the time if see if they have noticed odour, speak to any contractors that may be present within the area at the time of the visit, inspect drains, water bodies within the suburb to check health and if free flowing etc, speak to home owners that are in front yard at the time of the visit, note weather conditions.

On return to office download half hourly BOM data for that day.

The EPA has undertaken some preliminary mapping work to look at the location of the complaints (where this information is provided) with all complaints coming from residential areas, with the majority in the adjoining residential suburbs of Macarthur and Fadden. Most complainants are saying the odour is present in the morning or evening. Last complaint received was received 9 March 2016 (from the repeat complainant).

The EPA has mapped the location of complaints (where this information is provided) and analysed climatic data from the BoM weather station at Tuggeranong weather station and has yet to identify a pattern which would identify the Mugga Lane Resource Management Centre (MLRMC) as the source of the offensive odour. In fact the analysis has been confounded due to the contradictory nature of complaints (variation in times and locations), the distance of the alleged odour source from sensitive areas and the lack of infield validation (smell) of complaints. However the EPA is determined to identify the source of the odour and has been liaising with complainants. No complaints have been received from Hume even though this area is closer to the landfill and would be subject to the prevailing north-westerly winds.

The ACT EPA has also advice from the NSW EPA as to the merits of undertaking odour modelling of the MLRMC as the possible odour source, noting that whilst it is a significant distance from residential areas some impacts may be occurring under certain climatic conditions. They have indicated that they would not undertake this odour modelling in NSW given the facilities were existing, notwithstanding the difficulty in collecting emissions information to do the modelling for a precinct such as MLRMC. A better approach would be to have the facility audited by an odour expert to identify possible odour sources and drive improvement works which would minimise odour potential, eg schedule the turning of stockpile windows to coincide with prevailing winds which will disperse odours away from sensitive receptors.

It needs to be noted that the complaints are coming from over two kilometres away from the alleged source and it is almost impossible to find a direct link when odour emissions are slight, and in this case of the MLRMC would be coming from multiple operators who are operating in accordance with their environmental authorisations. Given the facilities are implementing best environmental practice a better outcome would be to continue with stakeholder engagement.

From: Corrigan, Margarete
Sent: Wednesday, 9 March 2016 3:02 PM
To: Power, David
Cc: Jones, Greg; Gioffre, Tina
Subject: FW: Tuggeranong Odour - list of all actions/timeline of actions undertaken by EPA - DJE 12.30pm 10/3
Importance: High

Hi David

Could you please commence the request below ready for Greg's clearance by 10am tomorrow so Greg can clear in between meetings.

Cheers



From: Howell, Elizabeth **On Behalf Of** CMCD DLO
Sent: Wednesday, 9 March 2016 2:48 PM
To: Jones, Greg
Cc: Corrigan, Margarete; Phillips, Brett; Burns, Felicity; Aquilina, Audrey
Subject: Tuggeranong Odour - list of all actions/timeline of actions undertaken by EPA - DUE 12.30pm 10/3
Importance: High

Hi Greg

Sorry to be constantly hassling you on this, Minister Fitzharris's office would also like a list for tomorrow of all actions undertaken by EPA – ie did this on this date, did something else on that date etc. This would form an attachment to the QTB.

Due by 12.30pm for use in question time tomorrow please.

Many thanks

Elizabeth

From: Aquilina, Audrey
Sent: Wednesday, 9 March 2016 12:27 PM
To: Howell, Elizabeth
Cc: Jones, Greg; Corrigan, Margarete; Phillips, Brett; Burns, Felicity
Subject: FW: Question Time follow up re Tuggeranong Odour - advice re analysis for Minister Fitzharris's office - DUE 2pm 9/3

Attached amended QTB in tracks and suggested response with RED edits below

Suggested Response

- I was asked a number of questions yesterday in Question Time about the odours in Tuggeranong. I gave an undertaking that I would check a number of facts on the work undertaken by the EPA to identify the source of the odour.
- I can confirm the answers and advice I provided to the Assembly yesterday.
- The EPA had certainly commenced its assessment of the source of the odour before the end of February. This included collating data from complaints, talking to affected residents, mapping data to look for patterns, talking to experts in the NSW EPA, discussing activity with the Mugga Tip operator and the operator of the Green Waste.
- Clearly the EPA is looking at all the data they have to see if there is any pattern or conclusion they can draw about the source, as I indicated yesterday.
- EPA is investigating multiple possible sources of the odour, including the Tip, the Green Waste run by Corkhills, sewer outlines and other possible sources such as open ponds or drains.
- Obviously, that work is not complete. The simple fact is that the data received so far does not show any clear trends which point to a source. For instance, there is no obvious

link between the times and places people have reported odours and any activities at Mugga Tip.

- The more specific and timely data the EPA receive about this, the more accurate the EPA's analysis will be.

Audrey Aquilina | A/g Manager, Policy Team

☎: 02 6207 4442

✉: Audrey.Aquilina@act.gov.au | 📬: GPO Box 158 Canberra ACT 2601

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From: Jones, Greg

Sent: Wednesday, 9 March 2016 12:23 PM

To: Aquilina, Audrey

Cc: Corrigan, Margarete; Gioffre, Tina; Balaretnaraja, Ash; Phillips, Brett

Subject: RE: Question Time follow up re Tuggeranong Odour - advice re analysis for Minister Fitzharris's office - DUE 2pm 9/3

Hi Audrey

Updated QTB attached, in track changes.

Regards

Greg

From: Aquilina, Audrey

Sent: Wednesday, 9 March 2016 11:19 AM

To: Jones, Greg

Cc: Corrigan, Margarete; Gioffre, Tina; Balaretnaraja, Ash; Phillips, Brett

Subject: RE: Question Time follow up re Tuggeranong Odour - advice re analysis for Minister Fitzharris's office - DUE 2pm 9/3

Greg, attached is the QTB in word for you to be able to amend. Also attached is the QON we had done which has some complaint figures in it.

Audrey Aquilina | A/g Manager, Policy Team

☎: 02 6207 4442

✉: Audrey.Aquilina@act.gov.au | 📬: GPO Box 158 Canberra ACT 2601

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From: Howell, Elizabeth **On Behalf Of** CMCD DLO
Sent: Wednesday, 9 March 2016 10:56 AM
To: Jones, Greg; Aquilina, Audrey
Cc: Corrigan, Margarete; Gioffre, Tina; Balaretnaraja, Ash; Phillips, Brett
Subject: FW: Question Time follow up re Tuggeranong Odour - advice re analysis for Minister Fitzharris's office - DUE 2pm 9/3
Importance: High

Hi Greg

Adviser in our office has slightly amended the suggested response. Are you happy that the highlighted response below is accurate now?

Tony has also asked about the QTB – is the same QTB provided to the CM as the one that Minister Fitzharris has? Tony would like the CM's QTB attached updated to include:

- Number of complaints received
- Possible sources of the odour the EPA is investigating
- Note that there is not enough consistent data to point to any one of those as the source of the odour

Many thanks
Elizabeth

From: Hodges, Tony
Sent: Wednesday, 9 March 2016 10:36 AM
To: CMCD DLO
Subject: RE: Question Time follow up re Tuggeranong Odour - advice re analysis for Minister Fitzharris's office - DUE 2pm 9/3

Can we get this fact-checked, please

Suggested Response

- I was asked a number of questions yesterday in Question Time about the odours in Tuggeranong. I gave an undertaking that I would check a number of facts on the work undertaken by the EPA to identify the source of the odour.
- I can confirm the answers and advice I provided to the Assembly yesterday.
- The EPA had certainly commenced its assessment of the source of the odour before the end of February. This included verifying data where contact details were provided, talking to affected residents, mapping data to look for patterns, talking to experts in the NSW EPA, discussing activity with the Mugga Tip operator and the operator of the Green Waste.
- Clearly the EPA is looking at all the data they have to see if there is any pattern or conclusion they can draw about the source, as I indicated yesterday.
- EPA is investigating multiple possible sources of the odour, including the Tip, the Green Waste run by Corkhills, sewer outlines and other possible sources such as open ponds or drains.

- Obviously, that work is not complete. The simple fact is that the data received so far does not show any clear trends which point to a source. For instance, there is no obvious link between the times and places people have reported odours and any activities at Mugga Way.
- The more specific and timely data the EPA receive about this, the more quickly they will be able to establish a likely source.

From: Howell, Elizabeth **On Behalf Of** CMCD DLO
Sent: Wednesday, 9 March 2016 10:11 AM
To: Hodges, Tony
Subject: FW: Question Time follow up re Tuggeranong Odour - advice re analysis for Minister Fitzharris's office - DUE 2pm 9/3

Hi Tony

Are you happy with this suggested response going to Minister Fitzharris's office?

Suggested Response

- I was asked a number of questions yesterday in Question Time about the odours in Tuggeranong. I gave an undertaking that I would check a number of facts relating to the work so far undertaken by the EPA to identify the source of the odour.
- I have done that and I am able to confirm the answers and advice I provided to the Assembly yesterday.
- To support my responses, I wish to confirm that the EPA had certainly commenced its assessment of the source of the odour before the end of February, including reacting to verify complaints when received in a timely manner, discussing complaints with local affected residents, mapping data that has been received to determine patterns, talking to experts in the NSW EPA, discussing activity with the Mugga Tip operator and the operator of the Green Waste located at the same site.
- Clearly this indicates that the EPA's analysis is well underway, as I indicated yesterday.
- I also point out that due to the complexities of the situation and the relevantly small amount of data received, the analysis has not yet been completed and no conclusions have been reached at this point in time. The analysis is on-going.

Thanks
Elizabeth

From: Jones, Greg
Sent: Wednesday, 9 March 2016 9:26 AM
To: CMCD DLO
Cc: Corrigan, Margarete; Gioffre, Tina; Aquilina, Audrey; Balaretnaraja, Ash; Phillips, Brett
Subject: RE: Question Time follow up re Tuggeranong Odour - advice re analysis for Minister Fitzharris's office - DUE 2pm 9/3

Hi Elizabeth

I provide the following description of the meeting to help set the scene of how it went and what was said:

I met with Ms Lawder on 23 February (with Tony Hodges), at her request, where she asked for an update on resolving the odour issue from the Mugga Tip.

Her approach at the meeting was very simplistic and quite aggressive, asking 'What have you done? Have you resolved it yet? Why not? How long will take? Etc'. I considered her approach sometimes unreasonable given she had asked for a briefing on progress from officials.

Ms Lawder's approach was that it should be a simple matter of locating the source of the odour, which she has assumed is the Mugga Tip, and that it should be a simple matter to fix. I explained to her in great detail that it was a complex situation where the source of the odour was not certain, that the EPA was keeping an open mind on the possible source which may include the Tip, the Green Waste run by Corkhills or a sewer outline or some other source (eg. open pond or drain). I also canvassed the option that it could be from multiple sources at different times. This would be in line with the variable data we were received which was occasionally in conflict with different sources and inconsistent with prevailing wind direction. I cautioned her that complaints themselves may not necessarily indicate the only points of any odour.

I updated her on our methodology of collecting data (including the broad information sent from her office – street names and times/dates, which were often from the same complainants) and how we were comparing that information to the detailed data on meteorological conditions received from the Bureau of Meteorology on temperature, rainfall, humidity, wind direction and speed. I outlined how we were comparing the time and date of complaints to the meteorological data and were mapping the complaint locations to identify patterns.

I clearly advised her that this work was underway and that mapping of data so far received had unsurprisingly indicated complaints had shown some patterns in certain areas.

I made it clear to her that our assessment (in her terminology: 'analysis') was underway but was not yet complete as we had not received a large enough sample of data (especially since some of the data was inconsistent) and that so far we were unable to verify any of the complaints received. Ms Lawder found this a difficult concept to understand and asked a number of simplistic questions along the lines of 'How much data do you need? When will you have this? What is your timeframe? How long will this go on for? How long are we expected to wait for an answer?'

At no time did I indicate that our analysis was yet to commence, on the contrary I advised her what we had done so far. Perhaps her misunderstanding of the complexities lead her to conclude that our analysis in terms of forming a conclusion had not yet been reached ie. she is confusing 'analysing' with 'concluding'.

Suggested Response

- I was asked a number of questions yesterday in Question Time about the odours in Tuggeranong. I gave an undertaking that I would check a number of facts relating to the work so far undertaken by the EPA to identify the source of the odour.
- I have done that and I am able to confirm the answers and advice I provided to the Assembly yesterday.

- To support my responses, I wish to confirm that the EPA has certainly commenced its assessment of the source of the odour including reacting to verify complaints when received in a timely manner, discussing complaints with local affected residents, mapping data that has been received to determine patterns, talking to experts in the NSW EPA, discussing activity with the Mugga Tip operator and the operator of the Green Waste located at the same site.
- Clearly this indicates that the EPA's analysis is well underway, as I indicated yesterday.
- I also point out that due to the complexities of the situation and the relevantly small amount of data received, the analysis has not yet been completed and no conclusions have been reached at this point in time. The analysis is on-going.

Hope this helps.

Let me know if you need anything more or wish for further clarification. I am also happy to discuss.

Regards

Greg

From: Howell, Elizabeth **On Behalf Of** CMCD DLO
Sent: Tuesday, 8 March 2016 6:29 PM
To: Jones, Greg
Cc: Corrigan, Margarete; Gioffre, Tina; Aquilina, Audrey; Balaretnaraja, Ash
Subject: Question Time follow up re Tuggeranong Odour - advice re analysis for Minister Fitzharris's office - DUE 2pm 9/3
Importance: High

Hi Greg

Minister Fitzharris's office has asked me about the Tuggeranong odour issue following the questions during Question Time today (Hansard below).

Her office would like to know what the EPA told Ms Lawder during their briefing in February about not having started the analysis of data yet (if the EPA did say that). Apparently that information was not passed on to Minister Fitzharris (who was under the impression analysis had started before the end of February).

Can you please review the answers below and advise?

Minister Fitzharris would like to report back during Question Time tomorrow (Wed 9/3) so we would need some advice back before 2pm please.

Please give me a call to discuss over the phone if that's easier.

Many thanks

Elizabeth Howell | Directorate Liaison Officer

Phone: +61 2 6205 3029 | Email: cmcdlo@act.gov.au

Chief Minister, Treasury and Economic Development Directorate | ACT Government
ACT Legislative Assembly | London Circuit CANBERRA CITY | GPO Box 158 Canberra ACT
2601 | www.act.gov.au

Tuggeranong—offensive odours

MS LAWDER: My question is to the Minister for Transport and Municipal Services. In February, I moved a motion in the Assembly calling on the ACT government to take action to determine the cause of the foul smell in some Tuggeranong suburbs. I received a briefing towards the end of February about this matter. **In that briefing, I was told that the Environment Protection Authority had not even started its analysis into the cause of the smell.** I was also told that I would be kept informed about this issue. As recently as 5 March, a constituent told me that they had once again experienced the foul smell in their suburb. Minister, as of the end of February, why hadn't the EPA started its analysis into the cause of the foul smell?

MS FITZHARRIS: I thank Ms Lawder for the question. **It is my understanding that EPA have been investigating the smell for some time, and certainly before the end of February. If that is not the case, I will seek further advice and come back.**

I add in relation to this issue, as I mentioned the last time this was asked about in the previous sittings, that I have myself made a visit to the area. I again ask for support from all members: if they receive complaints about the potential odour, to let me know directly. The best thing that we can do is have as much data and evidence as possible, as specific as possible, so that we can continue to investigate the potential cause of this odour.

I have also received a briefing from a number of government officials involved quite extensively in working on addressing this issue. This includes officials from the Territory and Municipal Services Directorate who are proactively looking at additional management strategies at the Mugga Lane Resource Management Centre if indeed that is in some way linked to the odour. It has not yet been found. I believe it is not an easy problem to ascertain. But, again, I would ask, please, that any information, as specific as possible, be forwarded to me.

I would note that Ms Lawder has not written to me or contacted my office directly since this time. I would again encourage her, for I think at least the third or fourth time—if she would like to have this issue resolved in a responsible and practical way—I again ask for information to be provided to my office and I will follow up on that as I have committed to do a number of times.

MADAM SPEAKER: Supplementary question, Ms Lawder.

MS LAWDER: Minister, why did it take the EPA so long to start its analysis? **I repeat that the words used to me were that they did not have enough data to start analysis of the foul smell at the end of February.** Why is it taking so long to start the analysis of the data?

MS FITZHARRIS: I thank Ms Lawder for the supplementary. Again, the data is being collected. Analysis, as I understood it, was underway. I will come back to the chamber on that specific question of beginning the analysis. Again, I would stress that the better data we have, the better analysis we can undertake.

MADAM SPEAKER: Supplementary question, Mr Wall.

MR WALL: Minister, what, if anything, are you doing to work out what the cause is of the smell in Tuggeranong?

MS FITZHARRIS: I thank Mr Wall for the supplementary. As I have indicated in my previous replies today and my previous replies in the last sitting period, the EPA remain active, as do officials, collecting data on the number of sites currently in operation on the Mugga Lane Resource Management Centre. If those opposite would like further briefings on this, I can certainly provide them. The data that is being collected is being analysed, and I refer you to my previous answer on this. The more detailed data we can get the better. I understand that officials have been in touch with individual residents and have asked them to keep diaries so they can better understand the nature of the problem. I understand that is underway.

Opposition members interjecting—

MS FITZHARRIS: Those opposite might laugh, Madam Speaker, but if they would actually like some proper, detailed data gathering to be done, if they would all like to go out and spend time 24 hours a day, seven days a week, then certainly I would welcome them doing that.

MADAM SPEAKER: A supplementary question, Mr Wall.

MR WALL: Minister, is putrescible waste responsible for the smell?

MS FITZHARRIS: No, not as far as we are currently aware.

From: [Power, David](#)
To: [Jones, Greg](#)
Subject: site visits
Date: Wednesday, 6 April 2016 2:16:00 PM
Attachments: [image001.jpg](#)

- In response to the odour issue EPA officers have visited the Mugga tip site and surrounding residential areas on 14, 15, 19, 23 & 24 December 2015; 11, 20 and 28 January 2016; 5, 8, 15, 16, 22 and 29 February 2016; 11, 17 and 23 March; 4 Apr.

Multiple officers were present for the 20 and 28 January and 16 and 22 Feb inspections.

David Power | Manager Environmental Quality
Phone: 02 62075311 | Email: david.power@act.gov.au
Construction, Environment and Workplace Protection | Access Canberra | ACT Government
GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

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From: [Power, David](#)
To: **S41(1)**
Subject: Letter box drop
Date: Friday, 8 April 2016 9:05:00 AM
Attachments: [EPA Letter to Households - 7 April 2016 \(3\).docx](#)
[image001.jpg](#)

Good Morning Richard

Just making sure that you received this yesterday. Apologies if you've already received it.

Regards

David

David Power | Manager Environmental Quality
Phone: 02 62075311 | Email: david.power@act.gov.au
Construction, Environment and Workplace Protection | Access Canberra | ACT Government
GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>
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TO THE HOUSEHOLDER

Over the last few months, the ACT Government has been investigating reports from a number of residents in Fadden and Macarthur about the occasional presence of an odour. I can assure you that the Government is taking reports of any unpleasant odour issues in your neighbourhood very seriously.

A number of agencies across the ACT Government are investigating the cause of the reported odour. The ACT Environment Protection Authority (EPA) has primary responsibility for investigating the complaints, as the appropriate regulatory authority. The EPA has been investigating the area for possible sources of odour and has been engaging with affected residents.

Despite analysing the information collected by the EPA, including that provided by residents, and matching the data with weather records from the Bureau of Meteorology, the EPA has not been able to conclusively determine the source of the odour.

The EPA's analysis has been made more difficult by the varied nature of complaints. There have been large variations in the times, location, prevailing weather conditions and the distance between odour complaints. Identifying exact locations and times of any significant odour may be able to assist the EPA determine the source.

The EPA will examine complaints thoroughly as they are received. If you have smelt any significant odour that is particularly strong or lasting, you can provide details of when and where you have smelt that odour to the EPA via Access Canberra on phone 13 22 81.

The data received will assist the EPA's efforts to continue to investigate all possible sources of odour.

Environment Protection Authority
7 April 2016

From: s41(1)
To: [Power, David](#); [Clayton, Des](#)
Cc: [Haraldson, Anthony](#)
Subject: Tip face
Date: Tuesday, 12 April 2016 4:56:25 PM
Attachments: [photo 1.JPG](#)
[photo 3.JPG](#)

David,

Here are some photo's of the tip face at 4:15 today showing the face back to 20m x20m

With the remainder cover after 5pm

Regards

s41(1)

-----Original Message-----

From: s41(1)
Sent: Tuesday, 12 April 2016 4:47 PM
To: s41(1)
Subject:

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From: s41(1)
To: [Clayton.Des](#)
Subject: Tip face
Date: Wednesday, 13 April 2016 3:16:36 PM
Attachments: [photo.JPG](#)
[ATT00001.txt](#)

Des,

This was a photo around 7am today of the tip face covered Tuesday night after the other photo were sent.

Regards

s41(1)

-----Original Message-----

From: s41(1)
Sent: Wednesday, 13 April 2016 3:14 PM
To: s41(1)
Subject:

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From: s41(1)
To: [Clayton, Des](#)
Cc: [Haraldson, Anthony](#)
Subject: Cover
Date: Wednesday, 13 April 2016 3:13:29 PM
Attachments: [photo 1.JPG](#)
[photo 2.JPG](#)
[photo 3.JPG](#)

Des,

Please see the photo's of the exposed rubbish along the A-2 batter covered.

Regards

s41(1)

-----Original Message-----

From: s41(1)
Sent: Wednesday, 13 April 2016 3:09 PM
To: s41(1)
Subject:

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From: [Power, David](#)
To: [Haraldson, Anthony](#)
Subject: final capping
Date: Wednesday, 13 April 2016 1:31:00 PM
Attachments: [image001.jpg](#)

Anthony

From what Terry was saying yesterday it's pretty obvious that we need to focus on the landfill gas side of things given their significantly higher odour concentration. Given the tip face and leachate weren't identified as odorous you should be addressing this as a matter of urgency with Remondis. Can you give me an update on the capping program given they may be off the site at the end of June.

For your info EDL **s41(1)** also indicated to Des yesterday that the landfill is not capped very well and when they walk over it their LEL (lower explosive level) meters go off all the time due to the escaping methane emissions, which would indicate that we are also getting significant fugitive odour emissions.

Dave

David Power | Manager Environmental Quality
Phone: 02 62075311 | Email: david.power@act.gov.au
Construction, Environment and Workplace Protection | Access Canberra | ACT Government
GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>
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From: [Clayton, Des](#)
To: [Nilsen, Tom](#)
Cc: [Power, David](#)
Subject: MLRMC - authorisation review
Date: Monday, 16 May 2016 1:21:00 PM

Tom,

As you would be aware Environmental Quality has been redrafting the authorisation for the operation of a commercial landfill within the MLRMC to make it more contemporary and address recent issues at the site.

The new authorisation conditions have now been signed off by the Authority.

If you require any further information please discuss with Dave.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT
Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box
158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

From: [Haraldson, Anthony](#)
To: [Power, David](#)
Cc: [Badcoe, Deirdre](#); [Richards, Paul](#); [Gavin, Michael](#)
Subject: MLRMC Odour report and capping update
Date: Friday, 20 May 2016 1:17:30 PM
Attachments: [ACT NOWASTE Mugga Lane RMC&RF Initial Assessment issued 201605201.pdf](#)

Hi David

The odour report is attached for your reference- changed from Draft to Final today. The report has identified the uncapped batters as a potential odour source (to be capped-see below), and for Field Ambient Odour Assessments to be done. ACT NOWaste have engaged the Odour Unit to undertake the FAOA, planned for commencement first week of June.

Update on Capping

- The TAMS Ministers office currently have a brief requesting for \$1m to be allocated to the capping of the stage 4 cell.
- The Remondis contract price is being varied through a Procurement Plan (Variation) Minute. This is with Procurement Good and Services and will be directed to TAMS DG next week. This process has taken longer than expected.
- The capping material already onsite will be used first and Remondis have indicated they will look to cap the cell from top to bottom. Once the funding has been allocated (hopefully next week) ACT NOWaste will instruct Remondis to commence capping. The extent of capping will depend on the amount of capping clay available and the amount of capping that can be undertaken this FY, within the Remondis landfill contract. Procurement guidelines will determine who caps the remaining available areas of stage 4 cell. This may be through an open or select tender, depending on the amount of capping remaining.
- A possible source of suitable clay has been identified (approx. 30,000t). It is hoped, once approved, for this material to go straight to the stage 4 batters and not be stockpiled. The source project is planned for commencement early June 2016.

Any questions please contact me.

Regards

Anthony Haraldson

Senior Contract Officer | ACT NOWASTE

TERRITORY AND MUNICIPAL SERVICES DIRECTORATE | ACT GOVERNMENT

P|02 6207 5345 M|s41(1) F|02 6207 6255

E|anthony.haraldson@act.gov.au W|www.tams.act.gov.au

From: [Power, David](#)
To: [Pitt, Leesha](#)
Subject: FW: C01157 - 20160523 - Letter to Brett Phillips, Access Canberra, re correspondence from Ms Nicole Lawder, MLA, re community complaints of an offensive odour in Tuggeranong (A12050676)
Date: Tuesday, 24 May 2016 12:19:00 PM
Attachments: [C01157 - 20160523 - Letter to Brett Phillips, Access Canberra, re correspondence from Ms Nicole Lawder, MLA, re community complaints of an offensive odour in Tuggeranong.pdf](#)

Leesha

I didn't attend the Lawder briefing with Greg so I can't shed any light on what commitments he would have made. I am happy to prepare info for the response on what we have done in response to the investigation which has already been presented in the Assembly and was summarised in the letter box drop as well.

Dave

-----Original Message-----

From: Dix, Rodney
Sent: Monday, 23 May 2016 2:58 PM
To: Power, David
Subject: FW: C01157 - 20160523 - Letter to Brett Phillips, Access Canberra, re correspondence from Ms Nicole Lawder, MLA, re community complaints of an offensive odour in Tuggeranong (A12050676)

Rodney Dix | Manager

Phone: +61 2 6207 2586 | Fax: +61 2 6207 6084 | Email: rodney.dix@act.gov.au Environment Protection | Access Canberra | ACT Government Level 2 North - Dame Pattie Menzies House | 16 Challis Street Dickson | GPO Box 158 Canberra ACT 2601 | www.environment.act.gov.au

-----Original Message-----

From: Phillips, Brett
Sent: Monday, 23 May 2016 12:15 PM
To: Pitt, Leesha; Dix, Rodney; Middlemiss, David
Cc: Jones, Greg
Subject: FW: C01157 - 20160523 - Letter to Brett Phillips, Access Canberra, re correspondence from Ms Nicole Lawder, MLA, re community complaints of an offensive odour in Tuggeranong (A12050676)

Leesha

For action. You could contact the Environment Commissioner about providing a response.

Cheers

Brett

-----Original Message-----

From: Reichstein, Megan
Sent: Monday, 23 May 2016 11:54 AM
To: Phillips, Brett
Cc: Corrigan, Margarete
Subject: C01157 - 20160523 - Letter to Brett Phillips, Access Canberra, re correspondence from Ms Nicole Lawder, MLA, re community complaints of an offensive odour in Tuggeranong (A12050676)

Dear Mr Phillips

Attached, please find a letter from Dr Kate Auty, ACT Commissioner for Sustainability and the Environment. This letter is in response to correspondence received from Ms Nicole Lawder, MLA.

Regards

Megan Reichstein | Executive Assistant

Phone 02 6207 2626

Commissioner for Sustainability and the Environment Level 2, Telstra House, DICKSON | GPO Box 158
Canberra ACT 2601 | www.envcomm.act.gov.au

Check out the 2015 ACT State of the Environment report at <http://goo.gl/Y5KjBU>

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COMMISSIONER
FOR SUSTAINABILITY
AND THE
ENVIRONMENT

Mr Brett Phillips,
Executive Director
Construction, Environment and
Workplace Protection
Access Canberra
GPO Box 158
CANBERRA ACT 2601

Dear Mr Phillips

Community complaints regarding offensive odour in Tuggeranong and ACT Government agency handling of the issue.

I refer to the attached letter from MLA Nicole Lawder, regarding concern conveyed to her in relation to community complaints about offensive odour in Tuggeranong and about ACT government agency handling of the issue.

I have responded to Ms Lawder indicating to her that, as with all complaints received by my office, I have forwarded her letter to the relevant ACT Government Directorate for response in the first instance.

As the issues raised may well involve other ACT Government directorates and agencies, I would be grateful if you could forward appropriately, as necessary, for attention.

Yours sincerely

Dr Kate Auty
Commissioner for Sustainability
and the Environment

23 May 2016

Attach

Commissioner: Dr Kate Auty
GPO Box 158 Canberra ACT 2601
ABN: 66 893 463 785

T: (02) 6207 2626 E: envcomm@act.gov.au W: www.envcomm.act.gov.au

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Nicole Lawder MLA

Liberal Member for Brindabella - Australian Capital Territory
Shadow Minister for Housing, Family and Community Services and the Environment

Ms Kate Auty
Commissioner for Sustainability and the Environment
GPO Box 158
Canberra ACT 2601

Sent by email only: envcomm@act.gov.au

Dear Commissioner,

Foul smell in Tuggeranong

Many residents in Tuggeranong have contacted me in November 2015, December 2015, January 2016, February 2016, March 2016, April 2016 and again this month reporting a foul smell in their suburb. I have raised this issue in the Assembly on several occasions. As requested by the Environment Protection Authority (EPA) and Minister Fitzharris, I have been forwarding complaints I have received to both the EPA and Minister Fitzharris's office.

In February this year I received a briefing from the EPA about the foul smell in Tuggeranong. I was told that I would be provided with an update on the EPA's analysis and investigation into the cause of the foul smell. To date I have not received an update.

I would be grateful if you could please investigate the handling of the foul smell in Tuggeranong matter by relevant ACT Government Directorates, including the Territory and Municipal Services Directorate, ACT NOWaste and the Environment Protection Authority.

Please don't hesitate to contact me if you require further information or have any queries.

I look forward to hearing from you.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Nicole Lawder'.

Nicole Lawder MLA

12 May 2016



REVIEW OF ENVIRONMENTAL AUTHORISATION UNDER THE ENVIRONMENT PROTECTION ACT 1997

This review refers to the annual review of the ongoing Remondis Australia Pty Ltd environmental authorisation for the period 21 May 2015 to 20 May 2016.

Section 57 of the *Environment Protection Act 1997* requires the Environment Protection Authority ('the EPA') to annually review any standard environmental authorisation granted for an unlimited period or any standard or special environmental authorisation granted for a specified period exceeding one year.

1. Authorisation and Contact Details

Details	
Authorisation Number	0375
Authorisation Holder	Remondis Australia Pty Ltd
Authorised Activities	Operation of a commercial landfill.
Business Address	Alderson Place Hume ACT 2609
Block, Section	Block 2114 – Jerrabomberra ACT
Postal Address	P.O. Box 9, Fyshwick ACT
Branch / Depot / Agent	Alderson Place Hume ACT 2609
Contact Person	s41(1) ACT Area Manager
Telephone number	s41(1)
Mobile Number	
Fax / e-mail	

2. The activity's potential to cause environmental harm

Landfilling waste has the potential to cause long-term environmental impacts if it is not carried out correctly. This is especially the case for putrescible waste which generates leachate and methane gas as the waste breaks down. Overtime the design of landfills has improved to address the issue of leachate and gas generation. New cells at the site are being constructed to meet best practice standards with synthetic liners and leachate collection systems included in prevention of environmental impacts from the operation of landfills.

The conditions of the environmental authorisation have been developed to mitigate potential impacts while enabling the provision of an essential social service of waste disposal.

3. **The environmental record of the applicant**

Did Environment Protection receive any complaints during the reporting period concerning the authorisation holder?

Yes

No

During the review period EQ received numerous odour complaints from Tuggeranong residents.

Did Environment Protection investigate during the reporting period any incidents involving the authorisation holder that resulted in, or might have caused, environmental harm?

Yes

No

If yes, please provide below a short description of the nature of the incident(s).

4. **Economic and social benefits of the activity**

Regulating the disposal of waste carries substantial social benefits. Waste products can pose a risk to both public health and the environment if disposed of incorrectly. The Mugga Lane Resource Management Centre provides a valuable role, both locally and regionally, for the disposal of approved waste types as well as intractable waste such as asbestos.

5. **Environment Protection Policies**

Is the authorisation consistent with the relevant Environment Protection Policies?

Yes

No

If no, please provide below a short explanation of the nature of the inconsistency.

6. **Any other matters**

Did Authorisation holder apply for a variation to the authorisation's conditions?

Yes

No

Are there any other matters relevant to the review of this standard environmental authorisation?

Yes

No

7. Conclusion

During the review two minor and a major non compliance issues were identified relating to the storage of tyres outside the clearly defined area and the expansion of the leachate dam by ACT NOWaste without prior approval. ACT NOWaste failed to submit any supporting documentation e.g. design, water balance study, construction in accordance with endorsed guideline, the review and endorsement of the design by a suitably qualified environmental auditor prior to construction.

Capping of the South East extension/ V notch has yet to commence and is subject to Territory funding in accordance with contract conditions. During a site visit by Mr. Terry Schultz an odour consultant engaged by ACT NOWaste Mr. Schultz indicated that the lack of capping may be a cause of the odour issues currently being experienced.

Given the above, the standard environmental authorisation issued to Remondis Australia Pty Ltd adequately ensures that they comply with their general environmental duty under the *Environment Protection Act 1997*.

There is no need to vary this Authorisation for the activity of;

- **The operation of a commercial landfill Block 2114 Jerrabomberra.**


8. Recommendation

I recommend that:

- Remondis Australia Pty Ltd is permitted to continue to operate under a standard environmental authorisation, *on the basis it will be revised under new contractual arrangements.*
- Given that ACT NOWaste has advised that a new contract is currently being assessed for operational commencement on 1 July 2016 Remondis Australia Pty Ltd is directed to rectify the above identified non compliances, removal of the tyres stockpiled outside the defined area and reinstatement of the leachate dam prior to the 30 June 2016. *Estimate 15/16*

9. Notification required for advertising:

- | | |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Authorisation Varied | <input type="checkbox"/> |
| Infringement notice served | <input type="checkbox"/> |
| Environment Protection Order | <input type="checkbox"/> |
| Prosecution | <input type="checkbox"/> |
| Other action in accordance with Act (must provide details)
(eg Suspension/cancellation, improvement plan) | <input type="checkbox"/> |
| No further action | <input checked="" type="checkbox"/> |



Des Clayton
Environment Protection Officer
Environmental Quality

27 May 2016

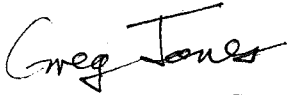
Agreed/Not agreed



David Power
Manager, Environmental Quality

3/ May 2016

Agreed/Not agreed



~~Leesha Pitt~~ Greg Jones
Delegate, Environment Protection Authority

~~May~~ 2016
15 June

From: [Clayton, Des](#)
To: [s41\(1\)](#) [Haraldson, Anthony](#)
Subject: RE: Odour [SEC=UNCLASSIFIED]
Date: Friday, 17 June 2016 7:49:00 AM

Thanks [s41](#)

Possible coming from the South East extension of the landfill has this has not been capped yet.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: 02 6207 1819 | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
Construction, Environment and Workplace Protection Division | Access Canberra | ACT Government
Level 2 North Building Dame Pattie Menzies House 16 Challis Street Dickson 2602 ACT | GPO Box 158
Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

-----Original Message-----

From: [s41\(1\)](#) [[mailto:s41\(1\)](mailto:s41(1)@act.gov.au)]
Sent: Friday, 17 June 2016 5:44 AM
To: Clayton, Des; Haraldson, Anthony
Subject: Odour

Hi,

Notice a heavy odour about opposite where EDL are on the bend. Thurs morning and evening and again this morning. Office staff also detected the same.

[s41\(1\)](#)
Corkhill Bros Sales Pty Ltd
[s41\(1\)](#)
[s41\(1\)](#)
[WWW corkhillbros.com.au](http://www.corkhillbros.com.au)

From: [Power, David](#)
To: [Haraldson, Anthony](#)
Date: Wednesday, 29 June 2016 3:58:00 PM
Attachments: [image001.jpg](#)

In consultation with the EPA, ACT NOWaste engaged an odour management expert to undertake a preliminary assessment of the MLRMC in April this year. The consultant recommended that a stage-wise approach to dealing with the MLRMC odour problem be implemented, commencing with the collection of basic complaint and field data which should enable any problem MLRMC sources or operations to be identified. This work will form the basis for the development of odour mitigation measures, if found to be required.

ACT NOWaste has engaged the same odour management expert to undertake this work and are now awaiting a final report. It has also installed a low wind speed weather station at the landfill site to improve the monitoring of meteorological conditions at the Mugga Lane site. This information will be available for ACTNOWaste and the EPA to view via a web link and it is hoped that the increased precision of data collection will assist with odour investigations

David Power | Manager Environmental Quality
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GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au/accesscbr>

Access Canberra logo



From: s41(1)
To: [Clayton, Des](mailto:Des.Clayton@act.gov.au)
Subject: RE: Odour complaints [SEC=UNCLASSIFIED]
Date: Friday, 1 July 2016 12:47:57 PM
Attachments: [Attached Image.msg](#)
[.msg](#)
[Attached Image.msg](#)

Des,

I have attached the onsite on site weather station report showing the wind direction on 28-29/06/16 and tip face photo's.

- A) The wind direction was from mainly N/ NW with max temperature of around 15C
- B) Photos are attached for the tip face on 28/06/16 when it was been moved from right to left .In the photo you can see the cover martial being put in place and at the rear of the dozer is the start of the new fill area.
There is another photo of the tip face showing it is still in the new location.
- C) There is know other works in the area that may generate odour that I'm aware of.
- D) Tip face covered up to 80% over night and keeping the tip face area with in 30 x 30 meters at a time.
- E) The currant level of the leachate dam is at 79% with discharge to sewer being conducted at around 4 litres per sec as per Icon water approval.

Regards

s41(1)

From: Clayton, Des [mailto:Des.Clayton@act.gov.au]
Sent: Friday, 1 July 2016 8:31 AM
To: s41(1)
Cc: s41(1)
Subject: Odour complaints [SEC=UNCLASSIFIED]
Importance: High

Morning s41(1) ,

EQ has received further odour complaints for the 28 & 29/06/2016. Therefore could you please provide a response in regard to the below:

- a) Meteorological conditions at the site for the past 48 hours;
- b) Time and date stamped photographs of the active tip face including photographs showing intermediate and daily cover;
- c) Details of any projects currently being undertaken by third parties that may impact on the generation of odour;
- d) Details of any measures taken or proposed to be taken to deal with odour generation;
- e) The current level of the leachate dam.

Regards

Des Clayton | Environment Protection Officer | EPA Inspectorate
Phone: **02 6207 1819** | Fax: 02 6207 6084 | Email: des.clayton@act.gov.au
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From: s43(1)
To: s41(1)
Subject: Attached Image
Date: Friday, 1 July 2016 12:15:08 PM
Attachments: [2725_001.pdf](#)

Battery Voltage - Base	13.18 V	Normal	Normal	2016-07-01 11:00:00
Battery Voltage - Remote	12.71 V	Normal	Normal	2016-06-21 10:00:00
Panel Temperature - Base	20.40 °C	Normal	Normal	2016-07-01 11:00:00

Historical Site Data

Select Site Parameter, Date/Time and Output Format

OUTPUT FORMAT

Chart HTML File

DATE/TIME SELECTION

From: 2016-06-28 00:00
To: 2016-06-29 12:02

SITE PARAMETERS

LEFT AXIS

Meteorological

- Air Temperature
- Barometric Pressure
- Rainfall hour total
- Relative Humidity
- Solar Radiation

RIGHT AXIS

Meteorological

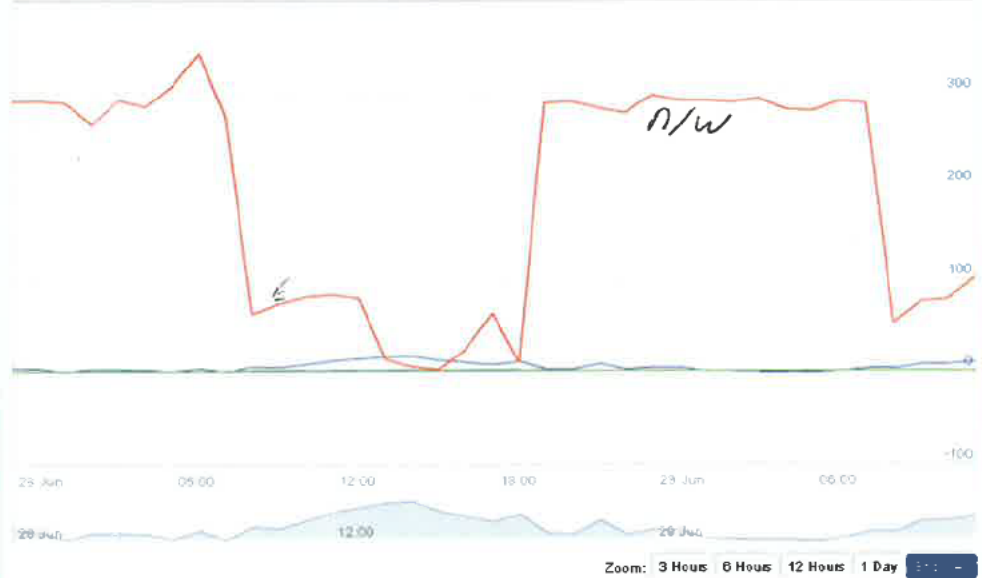
- Air Temperature
- Barometric Pressure
- Rainfall hour total
- Relative Humidity
- Solar Radiation

Load Chart

HISTORIC TREND

● ● ●

28 Jun 2016 [00:00:00] - 29 Jun 2016 [12:02:00]



- Meteorological - Air Temperature (°C) 5min AVG
- Meteorological - Wind Speed (m/s) 5min AVG
- Meteorological - Wind Direction (°) 5min AVG

Save Chart

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Select Language ▼

Contact Us

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From: s41(1)
To: s41(1)
Date: Friday, 1 July 2016 11:37:01 AM
Attachments: [photo 1.JPG](#)
[AIT00001.txt](#)
[photo 2.JPG](#)
[AIT00002.txt](#)
