

Appendix B Compliance Against Licence Conditions



LICENCE COMPLIANCE ASSESSMENT CHECKLIST

FORM041(1)

Refer Monitoring & Measurement Procedure PROC007

Site: Shale Road Landfill
Commencement Date: Tuesday, 4 November 2008
Licence Type & No: DEC Licence L7390/1999/8
Expiry Date: Sunday, 1 September 2013
Completed by: Rod Beaman, Dreon Suttie & Tristan Walker
Date: 12/03/2012
Period of Assessment: 2011

Clause No.	Summary of Clause	Compliant/Non Compliant/Pending/ Note	Comments
Waste acceptance and management			
G1(a)	The licensee shall accept and bury only the following types of waste at the premises: (i) clean fill, (ii) Inert wastes type 1, (iii) Inert wastes type 2, (iv) putrescible wastes, (v) Special waste type 1, (vi) Special waste type 2, and (vii) other wastes that comply with the Class II criteria in the document titled 'Landfill Waste Classification and Waste definitions' 1996 (as ammended)	Compliant	The Shale Road Landfill has a Waste Acceptance Manual which details the types of waste that can and cannot be accepted at the landfill.
G1(b)	The licensee shall take the following measures when managing Special Waste Type 2 (Biomedical Waste) at the premises: (i) The licensee, or their representative, must complete and sign the original waste transport certificate, noting, in writing, any discrepancies between waste declared and waste received. (ii) keep record of the waste transport certificate for at least three years; (iii) immediatly unload and cover the waste to min depth of 1 metre of soil or solid waste; (iv) define the disposal area(s) by grid reference on the site plan; (v) ensure the disposal areas are not excavated or uncovered during subsequent landfill operations; (vi) restrict access to the landfill site where the waste is buried to authorised personnel only; (vii) make the infomation recorded in accordance with (ii) of this condition available for viewing or copying by the director during any inspection of premises.	Compliant	MAN009 Waste Acceptance Manual exists to ensure that this is complied with.

Clause No.	Summary of Clause	Compliant/Non Compliant/Pending/ Note	Comments
G(c)	<p>The licensee shall ensure that Special Waste Type 1 (Asbestos Waste) is deposited at the premises according to the following requirements:</p> <p>(i) Accept only Asbestos Waste and material containing asbestos which is sealed in double lined or double bagged, heavy duty plastic sheeting of at least 0.2mm thickness;</p> <p>(ii) accept only wrapped or otherwise contained asbestos or material containing asbestos, which is labelled or marked with the words "CAUTION - ASBESTOS" in letters not less than 50 millimetres high;</p> <p>(iii) As soon as practicable and before compaction, cover the asbestos or material containing asbestos with a layer of soil at least 300 mm thick or with a layer of dense, inert and incombustible material at least 1 metre thick;</p> <p>(iv) Record as grid reference on a premises plan all locations used for the disposal of asbestos or material containing asbestos and keep this plan as a permanent record;</p> <p>(v) keep a permanent register of each load of asbestos or material containing asbestos deposited at the premises, including the date, name of the person that deposited the asbestos</p>	Compliant	Standard Operating Procedure SOP029 ASBESTOS WASTE - TRANSPORT, RECEIPT AND DISPOSAL exists to ensure that this is complied with.
Tyre Disposal			
G2(a)	The licensee may stockpile up to 100 truck and bus tyres (17.5 inch to "super singles" size) on-site for collection and recycling.	Compliant	The Landfill discourages the tipping of tyres and encourages tyre disposal through proper recycling facilities. The WALs Transfer Station removes tyres from the incoming waste loads to ensure they are not transported to the landfill.
G2(b)	The licensee must bury any truck and bus tyres (17.5 inch up to "super singles" size) in excess of the amount specified by part (a) of this condition.	Compliant	As per G2(a) The Landfill encourages tyre disposal through proper recycling facilities
Management of Landfill Activities			

Clause No.	Summary of Clause	Compliant/Non Compliant/Pending/ Note	Comments
G3	<p>The licensee shall take the following measures when landfilling activities are conducted at the premises:</p> <p>(i) Not dispose of waste on the premises closer than 35 meters from the premises boundary;</p> <p>(ii) place waste within a defined trench or within an area enclosed by earthen or other bunds;</p> <p>(iii) Restrict the non-greenwaste tipping face to a maximum linear length of 30 metres;</p> <p>(iv) Ensure cover material is placed over waste at the end of every day;</p> <p>(v) stockpile sufficient inert sand/soil to allow waste to be covered in accordance with part (iv) of this condition for a period of two weeks or in the event of a fire;</p> <p>(vi) Except where trenches are used, initially spread waste in layers not more than 500mm thickness prior to being compacted with a minimum of five passes with the waste compacting machine;</p> <p>(vii) manage the active landfill area such that at no time does landfilling result in an exposed face exceeding two metres in vertical height; and</p> <p>(viii) where a vehicle has the potential to track waste or matter from the landfill, it is cleaned of adhering matter prior to departing.</p>	Compliant	<p>(i) No cell boundary is within 35m of property boundary.</p> <p>(ii) Waste is placed within bunded landfill cells</p> <p>(iii) Only small amounts of greenwaste are received amongst mixed loads, customers with greenwaste are referred to composting facilities.</p> <p>(iv) Spray on cover, con cover or dirt to 150mm is applies to waste deposited each day.</p> <p>(v) Cover material is stockpiled to ensure adequate supply on hand to cover points (iv) & (v).</p> <p>(vi) SOP039 Waste Handling and Disposal - Waste Placement</p> <p>(vii) Landfill area is checked everyday as per daily checklist, to ensure no exposed face of more than two metres in height.</p> <p>(viii) All vehicles leaving site must exit via the onsite wheel wash, this is stated in the Site Safety Rules.</p>
G4	<p>The licensee shall notify the Director in writing at least 21 days prior to the use of any new alternative day cover material</p>		
Fencing			
G4(a)	<p>Licensee shall maintain fence a chain-link fence at least (1.8m high) around the whole of the perimeter of the premises of the active landfill area. The licensee shall ensure that any entrance to the premises is securely locked when the premises is unattended.</p>	Compliant	Entire landfill is fully fenced and gates locked at the end of each day.
G4(b)	<p>The licensee shall ensure that weekly inspections of the fence and gates referred to in part (a) of this condition are undertaken and that any damage to the fence is repaired within one working day of its discovery.</p>	Compliant	All fences repaired immediately and renewed if appropriate. All Perimeter fencing is inspected on a weekly basis and recorded on the landfill Weekly Checklist.
Windblown Waste			
G5(a)	<p>The licensee shall ensure windblown waste is contained within the boundaries of the active landfill area by installing and maintaining litter screens around the tipping area and regularly covering and compacting waste, in accordance with conditions of this licence.</p>	Compliant	Mobile litter screens erected where necessary and staff engaged as Litter Pickers to clear any windblown waste during season of high wind
G5(b)	<p>The licensee shall inspect litter screens no less than once per week to ensure their integrity and if damaged, repair them within two working days.</p>	Compliant	Litter screen conditions are checked as per the Weekly checklist and permanent Litter Pickers are employed which remove litter from litterscreens on a daily basis.

Clause No.	Summary of Clause	Compliant/Non Compliant/Pending/ Note	Comments
G5(c)	The licensee shall ensure that any windblown waste is removed from the premises fences and roads, and any windblown waste emanating from the premises is collected and removed on a weekly basis or more frequently when directed in writing by the Director.	Compliant	Priority of Litter Pickers is to ensure entrance road and surrounding areas are kept clear of litter. This is done on a daily basis during windy conditions.
Monitoring and Reporting			
G6(a)	The licensee shall provide to the director an annual monitoring report containing the monitoring data required by any condition of this licence. The report shall contain data collected from 1 January to 31 December and shall be provided by 31 March the following year.	Compliant	2010 Annual Monitoring Report was submitted prior to March 31 2010. 2011 annual report is being prepared now for submission before March 31 2011.
G6(b)	The report required by condition G6(a) shall include, but not be limited to: (i) Results of the monitoring program obtained in accordance with Table 2 in condition W2(a) of this licence; (ii) Results of weekly (when flowing) monitoring of surface water discharged from the storage dam in accordance with condition W2(b) of this licence; (iii) an assessment of the data taking into account previous years' monitoring; (iv) an assessment and appropriate Interpretation of the data integrated with the hydrogeology of the premises; (v) identification of any datum exceeding any limits set in this licence or other relevant guidelines or policies and provide information on why the exceedence occurred (if known) and action taken by the licensee to prevent recurrence of such exceedences; (vi) any changes to site boundaries, internal buffer zones, asbestos and clinical waste disposal areas and location of monitoring locations; (vii) results of quarterly stormwater drain inspections accordance with condition W1(d) of this licence;	Compliant	Annual Monitoring report covers all items listed in this Clause as well as other requirement that are required as part of this licence.
Annual Audit Compliance Report			
G7	The licensee shall by March 31st in each year provide to the Director an Annual Audit Compliance Report in the form in attachment 4 to this licence, signed and certified in the manner required by section C of the form, indicating the extent to which the licensee has complied with the conditions of this licence, and any previous licence issued under Part V of the Act for the premises, during the period beginning 1 January the previous year and ending on 31 December in that year.	Compliant	Annual Audit Report is submitted as an Attachment to the Annual Monitoring Report.
Greenwaste Processing Area			
G8(a)	The licensee shall ensure that greenwaste is stored at premise only for the purpose of mulching or composting for onsite use or for removal from the premises.	NA - not done on site	Greenwaste is not processed at the Shale Road Landfill.

Clause No.	Summary of Clause	Compliant/Non Compliant/Pending/ Note	Comments
G8(b)	The licensee shall ensure all composting material is stored and processed on the hardstand constructed in the green waste processing area.	NA - not done on site	See comments for G8(a)
G8(c)	The licensee shall ensure the base of the hardstand is banded to effectively divert stormwater run off away from green waste.	NA - not done on site	See comments for G8(a)
G8(d)	The licensee shall ensure all water from hardstand area drains into the leachate retention area.	NA - not done on site	See comments for G8(a)
G8(e)	The licensee shall ensure all mulched green waste stored on premise is in windrows.	NA - not done on site	See comments for G8(a)
G8(f)	The licensee shall maintain buffer distance of 35m from boundary of premises to the greenwaste storage area.	NA - not done on site	See comments for G8(a)
Air Pollution Control Conditions			
Dust - General Requirements			
A1	The licensee shall suppress dust from the open landfill face or trench, stockpiled areas and transport activities by employing methods including water trucks, appropriate sprinkler systems and/or hydromulch, to ensure that no visible dust crosses the boundary of the premises.	Compliant	2 watercarts are used on site to suppress dust on all haul and access roads, this is done continuously each day. Any dusty loads are buried immediately and/or wetted down as required by Safe Operating Procedures SOP019 Receipt and Safe Handling of Dusty Waste Streams
Burning of Waste			
A2	The licensee shall not burn or allow the burning of waste on the premises.	Compliant	No waste is burnt on the premises.
Landfill Gas Control			
A3	The licensee shall install a capping system on each putrescible waste cell immediately after the final contours have been reached which meets the following requirements; (i) Immediately cap the cell with a layer contoured to allow gas migration to extraction ports; (ii) cap the cell with 300mm of clay, or other capping material approved by the Director, with a maximum hydraulic conductivity (K) of 1x10 ⁻⁷ ; and (iii) install a protective capping cover as approved by the Director	Compliant	All cells are capped according to A3, with 500mm of clay being used for condition (ii), and an effective gas extraction system is installed.
Water Pollution Control Conditions			
Uncontaminated Stormwater Management			

Clause No.	Summary of Clause	Compliant/Non Compliant/Pending/ Note	Comments
W1(a)	The licensee shall direct uncontaminated stormwater run-off around the filled areas and associated sumps or drains into dedicated stormwater drains	Compliant	Stormwater drains and bunding is in place to direct uncontaminated stormwater away from landfill activities, and into the constructed stormwater drains.
W1(b)	The licensee shall ensure stormwater drains on the premises are kept clear of waste to allow for their effective use.	Compliant	Litter Pickers are instructed to keep stormwater drains clear of waste
W(c)	The licensee shall direct uncontaminated stormwater into a sedimentation pond(s) prior to its release off the premises.	Compliant	All stormwater onsite is diverted to the sedimentation pond prior to leaving site.
W1(d)	The licensee shall inspect stormwater drains at least quarterly and maintain a log or database of each inspection including: (i) a summary of the inspections; (ii) any actions undertaken to repair or improve drains; and (iii) a photographic record of the inspection	Compliant	Quarterly inspection of drains in are included in the Annual Monitoring Report.
Surface and Groundwater Monitoring			
W2(a)	The licensee shall undertake the monitoring program in attachment 1 and collect representative samples from the monitoring sites specified in Column 1 of Table 2, at the frequencies specified in Column 2 of Table 2, analysed for the parameters specified in Column 3 of Table 2 in the units specified in Column 4 of Table 2 and at the locations depicted in attachment 3 of this licence.	Compliant	Quarterly and Annual surface and groundwater monitoring results are completed in accordance the Sampling and Analysis Plan which is accurately reflected in Table 1 of the Shale Road Landfill licence.
W2(b)	The licensee shall ensure that analysis of samples referred to in condition W2a of this licence is undertaken in accordance with attachment 5 with methods that have limits of reporting at least equivalent or otherwise less than the value specified in Column 2 of Table 3 for each parameter specified in Column 1 of Table 3 and in the units specified in Column 3 of Table 3.	Compliant	Weekly surface water monitoring is completed by site staff in accordance with the licence. These results are considered in the Annual Stream Bank Assessment which was completed by GHEMS Environmental.
W2(c)	The Licensee shall analyse the surface water discharged from the storage dam weekly (when flowing) at the approximate location depicted in Attachment 3 for the following parameters: (i) pH, (ii) TDS (units in mg/L); and (iii) TSS (units in mg/L).		Surface water is analysed at surface water monitoring locations SW1 and SW4 as depicted in Attachment 3 of the licence.
W2(d)	Water samples shall be collected in accordance with relevant parts of Australian Standard 5667.1:1998	Compliant	Staff have been trained in the Australian Standard. Copy of the Standard is kept onsite for reference.

Clause No.	Summary of Clause	Compliant/Non Compliant/Pending/ Note	Comments
W2(e)	Water samples shall be submitted to a laboratory with current NATA accreditation for the analyses specified.	Compliant	Samples are taken to SGS (NATA accredited laboratory) for testing.
W2(f)	The licensee shall include a professional assessment of the impacts of the surface water discharge to the Serpentine River and its banks	Compliant	Please refer to Annual Streambank Assessment (completed by GHEMS Environmental) attached as part of the Annual Monitoring Report.
W3(a)	The Licensee shall submit to the Director by 31st March 2011 a Groundwater Monitoring Bore Replacement Plan for the groundwater monitoring of bores SL1,SL2,SL4A and SL5 as depicted in Attachment 3.	Compliant	Attached as part of the 2011 Annual Monitoring Report.
W3(b)	The Groundwater Monitoring Bore Replacement Plan referred to in condition W3(a) shall include, but not necessarily be limited to: (i) proposed locations for groundwater monitoring bores to replace SL1,SL2,SL4A and SL5; (ii) specifications of the bores to be installed including the proposed screen length; (iii) a timeframe for implementation and completion of replacing the groundwater monitoring bores.	Compliant	Groundwater Bore Replacement Plan includes all required information.
Leachate Management			
W4	The Licensee shall ensure that all leachate collected by the leachate collection system is directed to the Leachate Ponds unless leachate is directed to the Leachate Tank Farm in accordance with condition 7 of this licence.	Compliant	All leachate is directed (pumped) to the leachate ponds via 110mm dia. HDPE pipes.
W5	The Licensee shall ensure that leachate or any water containing leachate is not discharged beyond the boundary of the Premises.	Compliant	All leachate onsite is contained in leachate ponds or leachate tanks.
W6	The Licensee shall maintain a minimum top of embankment freeboard of 500mm in Leachate Pond 2 at all times to prevent overtopping	Compliant	Level markers are installed in both the Tank Farm and Leachate Pond 2 to ensure that leachate levels cannot rise above specified levels.
W7	The Licensee shall only store leachate in the Leachate Tank Farm for the purposes of transfer to vehicle and ensure that all leachate transfer and storage is performed in a manner that prevents the discharge of leachate into the environment	Compliant	Leachate is transferred to vehicles on a bunded hardstand area. This bunded hardstand area drains back into the Tank Farm to ensure that any potential spill event from the process of filling a vehicle is fully contained.
Liquid Chemical Storage			

Clause No.	Summary of Clause	Compliant/Non Compliant/Pending/ Note	Comments
W8(a)	The licensee shall store environmentally hazardous chemicals including, but not limited to, fuel, oil or other hydrocarbons (where the total volume of each substance stored on the premises exceeds 250 Litres) within low permeability (10-9 metres per second or less) compound(s) designed to contain not less than 110% of the volume of the largest storage vessel or inter-connected system, and at least 25% of the total volume of vessels stored in the compound.	Compliant	10,000 litre diesel tank onsite is contained within a concrete bunded area.
W8(b)	The compound(s) described in part (a) to this condition shall: (i) be graded or include a sump to allow for recovery of liquid; (ii) be chemically resistant to the substance stored; (iii) include valves, pumps and meters associated with transfer operations wherever practicable. Otherwise the equipment shall be adequately protected (eg. bollards) and contained in an area designed to permit recovery of chemicals released following accidents or vandalism; (iv) be designed such that jetting from any storage vessel or fitting will be captured within the bunded area [see for example AS 1940-1993 Section 5.9.3 (g)]; (v) be designed such that chemicals which may react dangerously if they come into contact, are in separate bunds in the same compound or in different compounds; and (vi) be controlled such that the capacity of the bund is maintained at all times (eg. regular inspection and pumping of trapped uncontaminated rain water).	Compliant	This Australian Standard (AS1940-1993) has been superseded by AS1940-2004. Diesel is stored onsite in accordance with the stated section of the AS.
W9	The Licensee shall immediately remove and dispose of any liquid resulting from spills or leaks of chemicals including fuel, oil or other hydrocarbons, whether inside or outside the low permeability compound(s).	Compliant	Emergency Response procedures exist in order to respond to. GUIDE001 Emergency Procedure Guide for Shale Rd Landfill section 4.9 Hydrocarbon Spillage.
W10	The Licensee shall keep a record of any incident that included the loss of chemicals, including fuel, oil or other hydrocarbons into the environment and provide a summary of each incident in the annual report.	Compliant	All incidents and the investigation into the incident are recorded by the SITA online reporting system "INTEGRUM" a copy of the incident report and investigation is provided in the annual report.

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