



Application for Works Approval Amendment

Part V Division 3 of the *Environmental Protection Act 1986*

Works Approval Number	W6565/2021/1
Works Approval Holder	City of Albany
File Number	DER2021/000215
Premises	Bakers Junction Waste Management Facility 120 Chester Pass Road KALGAN WA 6330 Legal description – Lot 7190 on Deposited Plan 175897 As defined by the premises maps attached to the Revised Works Approval
Date of Report	08/12/2022
Decision	Revised licence granted

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REGULATORY SERVICES

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

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1. Decision summary

Works Approval W6565/2021/1 is held by the City of Albany (Works Approval Holder) for the Bakers Junction Waste Management Facility (the Premises), located at 1206 Chester Pass Road, Kalgan.

This Amendment Report documents the assessment of potential risks to the environment and public health from proposed changes to the emissions and discharges during the construction and operation of the Premises. As a result of this assessment, Revised Works Approval W6565/2021/1 has been granted.

The Revised Works Approval issued as a result of this amendment consolidates and supersedes the existing Works Approval previously granted in relation to the Premises. The Revised Works Approval has been granted in a new format with existing conditions being transferred, but not reassessed, to the new format.

2. Scope of assessment

2.1 Regulatory framework

In completing the assessment documented in this Amendment Report, the department has considered and given due regard to its Regulatory Framework and relevant policy documents which are available at <https://dwer.wa.gov.au/regulatory-documents>.

2.2 Application summary

On 14 September 2022, the Works Approval Holder submitted an application to the department to amend Works Approval W6565/2021/1 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act).

An amendment to the Works Approval is being sought to include the use of a high-performance mobile shredder/grinder to shred decontaminated Food Organic and Garden Organic (FOGO) waste prior to it being conveyed directly into a sealed truck for transportation offsite for further processing. The existing Works Approval only permits the receipt, decontamination and temporary storage of FOGO waste on the premises.

The addition of shredding FOGO waste will change the existing prescribed premises category from a Category 62 solid waste depot to a Category 61A solid waste facility: premises (other than premises within Category 67A) on which solid waste produced on other premises is stored, reprocessed, treated, or discharged onto land.

The average number of weekly FOGO loads is 15 (approximately 90 tonnes of FOGO waste per week). The applicant advises that shredding of the FOGO waste will occur two to three times per week, with the shredding process taking approximately 30 minutes each time.

Time-limited operations under the current works approval have commenced and will expire on 4 February 2023. Therefore, time-limited operations have been extended for a further 90 days under this amendment, to allow time for a licence to be sought for the continued operation of the premises as a category 61A Solid Waste Facility.

Note: The Bakers Junction Waste Management Facility has historically operated under Licence L7048/1997/11. Due to an administrative error this licence has recently ceased. The licence holder has now applied to reinstate the licence and it is currently being assessed by the department.

3. Risk assessment

The department assesses the risks of emissions from prescribed premises and identifies the potential source, pathway and impact to receptors in accordance with the *Guideline: Risk assessments* (DWER 2020).

To establish a Risk Event there must be an emission, a receptor which may be exposed to that emission through an identified actual or likely pathway, and a potential adverse effect to the receptor from exposure to that emission.

3.1 Source-pathways and receptors

3.1.1 Emissions and controls

The key emissions and associated actual or likely pathway during premises operation which have been considered in this Amendment Report are detailed in

Table below.

Table also details the control measures the Works Approval Holder has proposed to assist in controlling these emissions, where necessary.

Table 1: Works Approval Holder controls

Emission	Sources	Potential pathways	Proposed controls
Dust	Operation of front end loader to load FOGO waste into shredder/grinder Operation of mobile shredder/grinder to shred FOGO waste Vehicle movements	Air/windborne pathway	No specific controls proposed
Noise			<ul style="list-style-type: none"> • Vehicle speed limits on site • Experienced machinery operators to reduce operational noise • Use of high specification equipment/machinery for efficient processing • Maintenance of equipment/machinery to optimize performance and reduce noise emissions • There are minimal other noise sources within the immediate vicinity of the hardstand and therefore, no cumulative impact
Odour			<ul style="list-style-type: none"> • The FOGO waste will go directly into a sealed truck after shredding. • Waste will be shredded at a fast speed and the whole process will take approximately 30 minutes. • Shredding of waste will be completed by experienced operators to ensure the most efficient turnaround time. • Shredding will only occur when wind conditions are suitable so that contaminants/waste particles do not become airborne and cause odours.

Emission	Sources	Potential pathways	Proposed controls
			<ul style="list-style-type: none"> Shredded waste will be transported off site in sealed trailers within 24 hours of being shredded. Odour patrols will be conducted at regular intervals to monitor odour emissions.
Windblown wastes			No specific controls proposed
Leachate	Storage of shredded FOGO waste materials	Seepage to soils and groundwater	No specific controls proposed

3.1.2 Receptors

In accordance with the *Guideline: Risk assessments* (DWER 2020), the Delegated Officer has excluded employees, visitors and contractors of the Works Approval Holder's from its assessment. Protection of these parties often involves different exposure risks and prevention strategies, and is provided for under other state legislation.

Table below provides a summary of potential human and environmental receptors that may be impacted as a result of activities upon or emission and discharges from the prescribed premises (*Guideline: Environmental siting* (DWER 2020)).

Table 2: Sensitive human and environmental receptors and distance from prescribed activity

Human receptors	Distance from prescribed activity
Residential Premises	Appx. 1 km north-west of the proposed activity area; and Appx. 1.6 km south-west of the proposed activity area
Environmental Receptors	Distance from prescribed activity
Waterways Conservation Area	Located within the Albany Waterways Management Area
Oyster Harbour, Kalgan and King	Located within these hydrographic catchments.
King River	Appx. 4 km south of the prescribed premises boundary
Underlying groundwater	Monitoring bore standing water levels reported to range from 8 – 11 mbgl. Hydraulic gradient reported to run north to south. Salinity mapped at 125 and TDS at 500-1000.
Threatened Ecological Communities	Located in close proximity to a priority one, endangered ecological community (Banksia coccinea shrubland/Eucalyptus staeri/Sheoak Open Woodland)

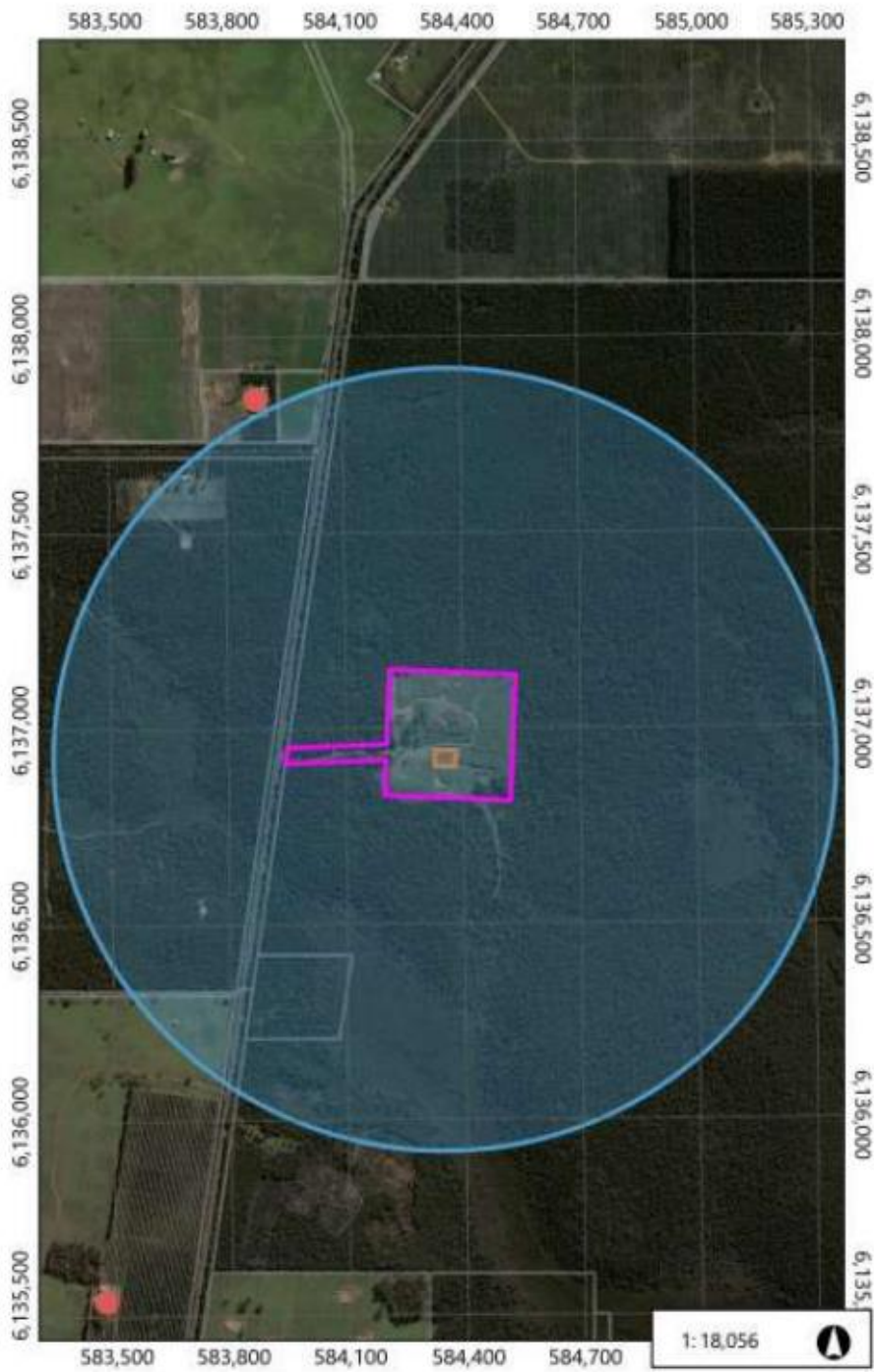


Figure 1: Distance from sensitive human receptors to FOGO receive area

The orange border marks the proposed FOGO receive area within the prescribed premises boundary (pink). The blue circle depicts a 1km buffer distance from the related operational area and the red dots indicate sensitive human residential receptors.

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020) for those emission sources which are proposed to change and takes into account potential source-pathway and receptor linkages as identified in Section 3.1. Where linkages are incomplete they have not been considered further in the risk assessment.

Where the Works Approval Holder has proposed mitigation measures/controls (as detailed in Section 3.1), these have been considered when determining the final risk rating. Where the Delegated Officer considers the Works Approval Holder's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the works approval as regulatory controls.

Additional regulatory controls may be imposed where the Works Approval Holder's controls are not deemed sufficient. Where this is the case, the need for additional controls will be documented and justified in Table 3.

The Revised Works Approval W6565/2021/1 that accompanies this Amendment Report authorises construction and time-limited operations. The conditions in the Revised Works Approval have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

A licence for the premises is required following the time-limited operational phase authorised under the works approval to authorise emissions associated with the ongoing receipt, temporary storage, and shredding of FOGO waste on the Premises. A risk assessment for the operational phase has been included in this Amendment Report, however licence conditions will not be finalised until the department assesses the licence application.

Table 3. Risk assessment of potential emissions and discharges from the Premises

Risk Event					Risk rating ¹ C = consequence L = likelihood	Reasoning	Conditions ² of works approval	Regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Works Approval Holder's controls				
Operation (including time-limited-operations)								
Operation of front end loader to load FOGO waste into shredder/grinder Operation of mobile shredder/grinder to shred FOGO waste Vehicle movements	Dust	Air/windborne pathway causing impacts to health and amenity	Residences appx. 1 km northwest and appx. 1.6 km southwest of the proposed activity area	Refer to Section 3.1	C = Minor L = Rare Low Risk	The works approval holder has not specifically provided controls for dust. However, they have stated that shredding will only occur when wind conditions are suitable so that contaminants/air particles do not become airborne, which will assist in controlling dust emissions. Due to the distance to the nearest residential receptor, dust impacts may only occur in exceptional circumstances.	Condition 12	The Delegated Officer (DO) considers the works approval holder's controls to be adequate to mitigate the risk of dust emissions. Therefore, no additional regulatory controls have been added.
	Odour				C = Minor L = Unlikely Medium Risk	Considering the works approval holder's controls and the distance from the nearest sensitive receptor to the proposed activity, offsite impacts to amenity are expected to be low and are not expected to occur in most circumstances	Conditions 12	The Delegated Officer (DO) considers the works approval holder's controls to be adequate to mitigate the risk of odour emissions and these have been added as conditions within the amended works approval.
	Noise				C = Minor L = Unlikely	Considering the works approval holder's controls and the	N/A	The Delegated Officer (DO) considers the works approval holder's controls

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Risk Event					Risk rating ¹ C = consequence L = likelihood	Reasoning	Conditions ² of works approval	Regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Works Approval Holder's controls				
					Low Risk	distance from the nearest sensitive receptor to the proposed activity, offsite impacts to amenity are expected to be low and are not expected to occur in most circumstances		to be adequate to mitigate the risk of noise emissions. Therefore, no regulatory controls have been specified. Premises operations are subject to the <i>Environmental Protection (Noise) Regulations 1997</i>
	Windblown wastes				C = Minor L = Rare Low Risk	The works approval holder has not specifically provided controls for windblown wastes. However, they have stated that shredding will only occur when wind conditions are suitable so that contaminants/air particles do not become airborne, and all shredded waste will be fed by conveyor into a sealed truck which will assist in preventing waste from becoming airborne. FOGO waste is decontaminated (hand picked) prior to being shredded. Due to the distance to the nearest residential receptor, windblown waste impacts are expected to be minimal.	Condition 12	The Delegated Officer (DO) considers the works approval holder's controls to be adequate to mitigate the risk of windblown waste emissions. Therefore, no additional regulatory controls have been added.

Risk Event					Risk rating ¹ C = consequence L = likelihood	Reasoning	Conditions ² of works approval	Regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Works Approval Holder's controls				
Shredding of FOGO and storage of shredded FOGO	Leachates	Overland runoff potentially causing ecosystem disturbance or via seepage (infiltration) impacting underlying groundwater. Potential for impacted groundwater to migrate off-site and impact sensitive water catchments and down-gradient groundwater users.	Beneficial users of groundwater Oyster harbour and King River	Refer to Section 3.1	C = Moderate L = Unlikely Medium Risk	Shredded FOGO waste will be immediately transported into a sealed truck after shredding via conveyor from the mobile crusher/grinder and then transported off site within 24 hours. Therefore, stored shredded waste should not be exposed to any rainfall. As the shredding will take place on the existing hardstand on the premises, any shredded waste that falls out of the shredder/crusher will fall onto the hardstand, with existing controls for leachate in place as per the current works approval. Therefore, the new proposed activity does not change the previously assessed risk rating for leachate.	Condition 1, 10, 11, 12, 13	The Delegated Officer (DO) considers the works approval holder's controls and existing works approval conditions to be adequate to mitigate the risk of leachate. Therefore, no additional regulatory controls have been specified.

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guideline: Risk assessments* (DWER 2020).

Note 2: Proposed Works Approval Holder's controls are depicted by standard text. **Bold and underline text** depicts additional regulatory controls imposed by department.

4. Consultation

Table provides a summary of the consultation undertaken by the department.

Table 4: Consultation

Consultation method	Comments received	Department response
Works Approval Holder was provided with draft amendment on 23/11/2022	Works Approval Holder requested on 1 December 2022 that the consultation period be waived and the revised works approval be granted.	N/A

5. Conclusion

Based on the assessment in this Amendment Report, the Delegated Officer has determined that a Revised Works Approval will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

5.1 Summary of amendments

Table 5 provides a summary of the proposed amendments and will act as record of implemented changes. All proposed changes have been incorporated into the Revised Works Approval as part of the amendment process.

Table 5: Summary of works approval amendments

Condition no.	Proposed amendments
Prescribed premises category description table	Change of prescribed premises category from 62: Solid waste depot, to 61A: Solid Waste Facility for the shredding and temporary storage of Food Organics and Garden Organics (FOGO) waste
Condition 1, Table 1	Addition of mobile shredder/grinder to Stage 1 Infrastructure table
8	Increase time limited operations period by a further 90 days
10	Correction of typographical error: reference to condition 7 corrected to condition 9
11	Correction of typographical error: reference to condition 7 corrected to condition 9
12, Table 3	Addition of shredding as a process to the waste processing table and storage conditions for shredded FOGO waste.
13, Table 4	Addition of mobile shredder/grinder to Infrastructure and equipment requirements during time limited operations table
16	Correction of typographical error: reference to condition 13 corrected to condition 15
18	Correction of typographical errors: reference to condition 11 changed to condition 13, reference to condition 12 corrected to condition 14, and reference to condition 15 corrected to condition 17.
19	Correction of typographical error: reference to condition 16 corrected to condition 18.

References

1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
2. Department of Water and Environmental Regulation (DWER) 2020, *Guideline: Environmental Siting*, Perth, Western Australia.
3. DWER 2020, *Guideline: Risk Assessments*, Perth, Western Australia.

Appendix 1: Application validation summary

SECTION 1: APPLICATION SUMMARY				
Application type				
Works approval	<input type="checkbox"/>			
Licence	<input type="checkbox"/>	Relevant works approval number:		None <input type="checkbox"/>
		Has the works approval been complied with?		Yes <input type="checkbox"/> No <input type="checkbox"/>
		Has time limited operations under the works approval demonstrated acceptable operations?		Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
		Environmental Compliance Report / Critical Containment Infrastructure Report submitted?		Yes <input type="checkbox"/> No <input type="checkbox"/>
		Date Report received:		
Renewal	<input type="checkbox"/>	Current licence number:		
Amendment to works approval	<input checked="" type="checkbox"/>	Current works approval number:	W6565/2021/1	
Amendment to licence	<input type="checkbox"/>	Current licence number:		
		Relevant works approval number:	N/A	<input type="checkbox"/>
Registration	<input type="checkbox"/>	Current works approval number:		None <input type="checkbox"/>
Date application received		14 September 2022		
Applicant and Premises details				
Applicant name/s (full legal name/s)		City of Albany		
Premises name		Bakers Junction Waste Management Facility		
Premises location		1206 Chester Pass Road, KALGAN WA 6330		
Local Government Authority		City of Albany		
Application documents				
HPCM file reference number:		DER2021/000215		
Key application documents (additional to application form):		Attachment 3B(i) - Astec Peterson Horizontal Grinder Brochure Attachment 3B(ii) - Crambo 6000 Brochure Attachment 5 - Planning Consultation Attachment 6A(i) – Sound Emissions – Astec Petersen		

	Attachment 6A(ii) – Sound Emissions – Crambo 6000 Attachment 6A(iii) – Sound Emissions CAT 930H Loader Attachment 6B – Odour Emissions – Screening analysis Attachment 1A – Occupier Status Attachment 2 – Premises Map
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Scope of application/assessment

Summary of proposed activities or changes to existing operations.	<p><i>Works approval amendment to include the shredding of Food Organics and Garden Organics (FOGO) waste using a high performance mobile shredder/grinder. Category change from 62 to 61A prescribed premises.</i></p> <p><i>The mobile shredder will be used on the sealed hardstand where FOGO waste is sorted and decontaminated. Decontaminated FOGO will be loaded into the shredder by a front end loader to be shredded and then fed via conveyor directly into sealed trucks for transportation off site to another facility to be further processed.</i></p> <p><i>Approximately 90 tonnes of FOGO waste will be shredded per week and shredding will occur 2-3 times per week, taking approximately 30 minutes each time to complete.</i></p>
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Category number/s (activities that cause the premises to become prescribed premises)

Table 1: Prescribed premises categories

Prescribed premises category and description	Proposed production or design capacity	Proposed changes to the production or design capacity (amendments only)
Category 61A: Solid waste facility: premises (other than premises within category 67A) on which solid waste produced on other premises is stored, reprocessed, treated or discharged onto land.	4500 tonnes/annum	N/A

Legislative context and other approvals

Has the applicant referred, or do they intend to refer, their proposal to the EPA under Part IV of the EP Act as a significant proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: Managed under Part V <input checked="" type="checkbox"/> Assessed under Part IV <input type="checkbox"/>
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: EPA Report No:
Has the proposal been referred and/or assessed under the EPBC Act?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Reference No:

Has the applicant demonstrated occupancy (proof of occupier status)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Certificate of title <input checked="" type="checkbox"/> General lease <input type="checkbox"/> Expiry: Mining lease / tenement <input type="checkbox"/> Expiry: Other evidence <input type="checkbox"/> Expiry:
Has the applicant obtained all relevant planning approvals?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Approval: Expiry date: If N/A explain why?
Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	CPS No: N/A No clearing is proposed.
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Application reference No: N/A Licence/permit No: N/A No clearing is proposed.
Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Application reference No: N/A Licence/permit No: N/A Licence / permit not required.
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Name: N/A Type: N/A Has Regulatory Services (Water) been consulted? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Regional office: South-West
Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Name: N/A Priority: P1 / P2 / P3 / N/A Are the proposed activities/landuse compatible with the PDWSA (refer to <u>WQPN 25</u>)? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Is the Premises subject to any other Acts or subsidiary regulations (e.g. <i>Dangerous Goods Safety Act 2004, Environmental Protection (Controlled Waste) Regulations 2004, State</i>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

<p><i>Agreement Act xxxx</i></p>		
<p>Is the Premises within an Environmental Protection Policy (EPP) Area?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	
<p>Is the Premises subject to any EPP requirements?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	
<p>Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i>?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Classification: N/A Date of classification: N/A</p>