



GLOBAL

Training & Assessing Pty Ltd ABN: 42 815 975 562

Static, Hazard & Risk Assessment of Mobile Plant

Company Name: **MAINSTREAM RECYCLING**

Make & Model: **KUBOTA U 55-4 EXCAVATOR**

Plant Id. No:

Serial No.: 22271

P.I.N. JKUU0554L01H22271

Location of Assessment: Breakwater

Assessed by: (Joe) Giuseppe Cutrulla



Rego. No:

Date of Issue: 07-10-2023

Hours.: 3907.9

Km's

Assessment Label Attached: **YES**

Assessor No.: GTA 028

- This document has been developed as a guide to identify hazards on plant only.
- Workplace hazards have not been identified.
- Job safety analysis (J.S.A) - Safe Work Method Statement (S.W.M.S.) is required to identify workplace hazards.
- Operators must take into account Job Safety Analysis when operating mobile plant.
- This assessment is conducted under a static condition as per Occupational Health & Safety Regulations Victoria 2017.
- National Standards (Safe Work Australia)
- National Standards for Plant (N.O.H.S.C.).
- All issues identified relating to maintenance and repairs must be rectified within 14 days of the date shown on this assessment.

REPORT ACCEPTANCE:

This Risk Assessment has been conducted to the guidelines as detailed in the Work Safe booklet 'Plant Hazard Checklist'

Machine type: **KUBOTA U 55-4 EXCAVATOR.**

GENERAL NOTES:

The Owner - Operator of the above Plant - Equipment should conduct an inspection at least once a year. All procedures and control method are maintained to the requirements of the Occupational Health & Safety Regulations Victoria 2017. National Standards for Plant (N.O.H.S.C.). In particular when any alteration or change is made to the Plant a review of both Control Methods and Documentation should be made.

A Plant Risk Hazard Assessment should be conducted at change of location. Refer to Plant Regulations.

CONFIDENTIALITY:

This Mobile Plant Hazard & Risk Assessment Report (referred to as 'Assessment') has been produced by Global Training & Assessing Pty. Ltd. contains information that is privileged and confidential for the use only by: **MAINSTREAM RECYCLING** .

Whilst every effort has been made by Global Training & Assessing Pty. Ltd. to ensure the accuracy of this report, Global Training & Assessing Pty. Ltd. will not be held responsible and extends no warranties as to the suitability of such information or for the consequences of its use.

DISCLAIMER:

This Mobile Plant Hazard & Risk Assessment does not eliminate the Owner - Operator responsibility to maintain the Mobile Plant as per Occupational Health & Safety Regulations Victoria 2017. National Standards for Plant (N.O.H.S.C.). Copying or distributing of this Assessment by any means to a third party is expressly prohibited unless consent has been authorised by Global Training & Assessing Pty. Ltd.

This Assessment provides information that is based on an inspection that was made on the date noted on the Assessment cover sheet. If any addition alteration or modification has been made to this Mobile Item Plant subsequent to that date it may not conform to a satisfactory level of acceptance, Therefore the Mobile Plant Hazard & Risk Assessment is null and void.

IF FAULTS NOT RECTIFIED IN 14 DAYS THIS DOCUMENT BECOMES NULL AND VOID.

A PLANT RISK ASSESSEMNT SHOULD BE PERFORMED AT REGULAR INTERVALS WITH A MINIMUM OF ONCE PER YEAR.

I acknowledge receipt of the complete Assessment for the Mobile Plant item detailed above:

Supervisor - Operator Please (PRINT) _____

Signature: _____

Name of Assessor (Joe) Giuseppe Cutrulla

No.: GTA 028

Signature: _____

Date: 07-10-2023

Risk Matrix: Consequences & Likelihood

| LIKELIHOOD | CONSEQUENCE | | | | |
|--------------------|------------------|--------------------------------|--|--|---|
| | 1- Insignificant | 2- Minor First Aid Required | 3- Moderate Medical Attention & Time off work | 4- Severe Long term illness or serious injury | 5- Catastrophic Death or cause permanent disability or illness |
| A - Almost Certain | 1A - Med | 2A - High | 3A - High | 4A - Very High | 5A - Very High |
| B - Likely | 1B - Med | 2B - Med | 3B - High | 4B - High | 5B - Very High |
| C - Possible | 1C - Low | 2C - Med | 3C - High | 4C - High | 5C - Very High |
| D - Unlikely | 1D - Low | 2D - Low | 3D - Med | 4D - Med | 5D - High |
| E - Rare | 1E - Low | 2E - Low | 3E - Med | 4E - Med | 5E - Med |

| VERY HIGH: Act Immediately | HIGH: Act today | MEDIUM: Act this week | LOW: Act this month |
|---|---|---|--|
| The proposed task or process activity must not proceed. Steps must be taken to lower the risk level to as low as reasonable practicable using the hierarchy of risk controls. | The proposed activity can only proceed, provided that: <ol style="list-style-type: none"> 1. The risk level has been reduced to as low as reasonably practicable using the hierarchy of risk controls. 2. The risk controls must include those identified in legislation, Australian Standards, Code of Practice etc. 3. The risk assessment has been reviewed and approved by the supervisor. 4. A Safe Working Procedure of Safe Work Method has been prepared. 5. The supervisor must review and document the effectiveness of the implemented risk controls. | The proposed task or process can proceed, provided that: <ol style="list-style-type: none"> 1. The risk level has been reduced to as low as reasonably practicable using the hierarchy of risk controls. 2. The risk assessment has been reviewed and approved by the supervisor. 3. A Safe Working Procedure or Safe Work Method has been prepared. | Managed by local documented routine procedures, which must include application of the hierarchy of controls. |

Risk Rating:

| | |
|---|---|
| 1. Eliminate the hazard altogether, e. g. get rid of the dangerous equipment. | <div>More Effective</div> <div>↑</div> <div>↓</div> <div>Less Effective</div> |
| 2. Substitute the hazard with safer Isolate the alternative, e. g. replace the equipment with a safer version. | |
| 3. Isolate the hazard from anyone who could be harmed, e. g. keep the equipment in a closed room and operate it remotely. | |
| 4. Use engineering controls to reduce the risk, e. g. attach guards to the equipment to protect users. | |
| 5. Use administrative controls to reduce the risk, e. g. train workers how to use the equipment safely. | |
| 6. Use P.P.E. e. g. wear gloves, goggles etc. when using the equipment. | |

| Potential Hazard | Risk Rating without Controls | Identified | | Control Method in place | YES NO N-A | Comments - Recommended Improvements | Projected Risk Score | Action Completed |
|---|------------------------------|------------|--|-------------------------|--|-------------------------------------|----------------------|------------------|
| | | YES | NO | | | | | |
| 1. ENTAGLEMENT: Can anybody's hair, clothing, gloves, necktie, jewellery, cleaning brushes, rags and other materials become entangled with moving parts of plant, materials in motion: | | | | | | | | |
| a) Can anybody become entangled with moving parts or materials in motion? | 4 B High | Y | Has the operator been inducted Manufacturers warning decal Engine covers Guarding installed Rotating parts warning decals Keep clear swing area decals | Y | Addressed by company induction, Company to implement All decals in operator's cab fitted Engine covers must remain in place Fitted Guards Fitted Fitted | 2 C Medium | | |
| 2. CRUSHING: Can anyone be crushed due to: | | | | | | | | |
| a) Uncontrolled or unexpected movement of the plant or its load? | 5 B Very High | Y | Neutral start switch Reversing - Motion travel alarm Crush Zone warning decal fitted Amber flashing beacon Controls have appropriate knobs Pedals non - slip surface Rear swing warning decal Machine may suddenly reverse warning decal fitted Rear view mirror Emergency Stop | Y | Fitted Fitted and MUST be working at all times Fitted Fitted | 2 C Medium | | |
| | | N | Brake lights Reverse lights – camera | NO | | | | |
| b) Material falling off the plant? | 4 B High | Y | Attachment (e.g., forks, ramps, etc.,) Moving bucket, breaker Quick Hitch | Y | Double Lock action hitch. Calibre s-n 382-5 | 2 B Medium | | |
| c) Lack of capacity for plant to be slowed, stopped or immobilised? | 5 A Very High | Y | Hydrostatic drive forward - reverse levers | Y | Maintain hydraulic oil level | 2 C Medium | | |
| | | N | Service brake operational Parking brake operational Drain air tanks daily decal | N-A | | | | |
| | | N | Safety bar - props - pins fitted Use safety bar when working under raised attachment decal | NO | | | | |
| | | Y | Do not stand under raised attachment decal | Y | | | | |
| d) Coming into contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair? | | Y | Equipment to be maintained to safe standard by company | Y | Maintenance carried out in line with manufacturer's recommendations. Use Do Not Start tag, Battery must be isolated during maintenance, Company to implement | | | |
| e) Being thrown off or under the plant? | | | Seat belt Wear seat belt decal No passenger decal | | Fitted, Operator must always wear seat belt, Fitted Fitted | | | |

| Potential Hazard | Risk Rating without Controls | Identified | | Control Methods in place | YES NO N-A | Comments - Recommended Improvements | Projected Risk Score | Action Completed | |
|---|------------------------------|------------|---|--------------------------|------------------|--|----------------------|------------------|--|
| | | YES | NO | | | | | | |
| f) The plant tipping or rolling over? | 5 A Very High | Y | Manufacture design cab | | Y | A.D.R. Approved Cab | 2 C Medium | | |
| | | | Operator cabin fully enclosed | | | | | | |
| | | | Door fitted | | | | | | |
| | | | Glass - safe operation conditions | | | | | | |
| | | Y | N | Operator cabin open | | NO | | | S.W.M.S. should be conducted for each job site, Company to implement Fitted, s-n 1691467 ISO 3471-2008 |
| | | | ROPS approved structure | | Y | Fitted, Fitted, ISO 10262-1998 | | | |
| | | | ROPS decal fitted | | | Operator must wear the seat belt in R.O.P.S. structure | | | |
| | | | FOPS- OPG approved structure | | | | | | |
| | | | Operator cabin enclosed with seat belt, ROPS | | | | | | |
| | | | Training, signs, decals, barricades | | | SWMS, Company to implement | | | |
| h) Being trapped between the plant and fixed structures during maintenance? | | | | | | | | | |
| i) Other factors not mentioned | | N | | | NO | | | | |
| 3. CUTTING: Can anyone be stabbed, cut or punctured due to: | | | | | | | | | |
| a) Coming into contact with sharp objects? | 5 A Very High | Y | Guarding, warning signs, hard hat, safety boots, P.P.E. | | Y | Suitable P.P.E. must be worn when required, Company to implement | 2 C Medium | | |
| | | | No visible signs of sharp objects, edges | | | | | | |
| b) The plant, parts of the plant or work pieces disintegrating? | | | Protection of personnel | | | Appropriate P.P.E. to be worn | | | |
| c) The mobility of the plant? | | | Danger may suddenly reverse without warning decal fitted | | | Operator must check surroundings and look behind before reversing | | | |
| d) Uncontrolled or unexpected movement of the plant | | | Crush zone decal | | | Fitted, keep Personnel out of machine operating radius while working | | | |
| 4. SHEARING: Can anyone's body be sheared between a part of the plant and a work structure: | | | | | | | | | |
| a) Body parts being sheared between plant and or structures? | 5 A Very High | N | Do not start decal | | NO | Use when servicing and or maintenance, Customer to implement | 2 C Medium | | |
| | | | Attached safety bar before entering decal | | | | | | |
| 5. HIGH TEMPERATURE: Can anyone come into contact with objects at high temperatures or friction or injured by fire: | | | | | | | | | |
| a) Coming into contact with hot parts? | 4 B High | Y | Low mounted exhaust | | Y | Fitted | 2 B Medium | | |
| | | | Exhaust guarding | | | Fitted | | | |
| | | | Hot surface decal | | | Fitted | | | |
| | | | Fire extinguisher supplied | | | | | | |
| 6. STRICKING: Can anyone be struck by moving objects due to: | | | | | | | | | |
| a) Uncontrolled or unexpected movement of the plant or material handle by the plant | 5 A Very High | Y | Forward - Reverse control | | Y | Operator to keep personnel out of operator radius of machine | 2 B Medium | | |
| | | | Hydrostatic drive | | | Guards fitted | | | |
| | | | Machine Guarding | | | | | | |
| | | Y | N | Park brake | | N-A | | | |
| | | | Machine guarding | | Y | Guards fitted | | | |
| | | | Keep clear warning decal | | | Fitted | | | |
| | | | Quick Hitch self - latching device | | | Double lock action hitch, | | | |
| | | | Safe operation of quick hitch is operator's responsibility, | | | Company to implement | | | |
| | | | Mouldboard must be supported at both ends | | | SWMS, use safety bar, chocks or blocks, Company to implement | | | |
| b) Working pieces being ejected? | | | | | | | | | |

| Potential Hazard | Risk Rating without Controls | Identified | | Control Method in place | YES NO N-A | Comments - Recommended Improvements | Projected Risk Score | Action Completed | |
|---|------------------------------|------------|---|-------------------------|------------------|---|---|------------------|------------|
| | | YES | NO | | | | | | |
| c) The plant, parts of the plant or work pieces disintegrating? | 5 B Very High | Y | Prestart inspection | | Y | Addressed by daily inspection booklet, Company to implement Fitted Fitted Fitted Fitted Fitted | 2 C Medium | | |
| | | | Machine guarding | | | | | | |
| | | | Keep clear decal | | | | | | |
| | | Y | Head, taillights | | Y | | | | |
| | | | Indicator, hazard lights | | | | | | |
| | | N | Brake lights | | NO | | | | |
| | | | Reverse Lights - Camera | | | | | | |
| | | Y | Reverse - Motion alarm warning | | Y | | Fitted and MUST be always working Fitted Fitted Fitted | | 2 E Low |
| | | | Work lights fitted front - rear | | | | | | |
| | | | Warning horn | | | | | | |
| | | | Amber flashing beacon | | | | | | |
| | | | Instructions decal in English | | | | | | |
| All labels readable | | | | | | | | | |
| Control functions identified | | | | | | | | | |
| 7. HIGH PRESSURE FLUID: Can anyone come into contact with fluids under high pressure: | | | | | | | | | |
| a) Leaking hydraulic hoses? | 4 B High | N | Non return valves fitted (craning - lifting valves) | | NO | Hoses have been checked Warning decals fitted Cooling system decal fitted Hydraulic oil decal fitted Fitted | 2 C Medium | | |
| | | | All pipes clamped | | | | | | |
| | | Y | High pressure fluid | | Y | | | | |
| | | | No visible sign of excessive lubricant leakage | | | | | | |
| | | | Track adjustment cylinder | | | | | | |
| | | | High pressure cylinder decal | | | | | | |
| 8. ELECTRICAL: Can anyone be Injured by electrical shock or burnt due to: | | | | | | | | | |
| a) The plant contacting live conductors? | 5 A Very High | Y | Has a J.S.A. – S.W.M.S. been conducted | | Y | Only qualified and trained people must complete Task, and J.S.A. – S.W.M.S. must be completed, Company to implement Fitted Fitted Fitted Decal fitted. Company to implement | 2 B Medium | | |
| | | | Certificate for No Go Zone | | | | | | |
| | | | Look up and Live decal in operator's sight | | | | | | |
| | | | Electrical wire warning decal | | | | | | |
| | | | Underground services - Dial Before You Dig | | | | | | |
| b) Lack of isolation procedure? | 4 B High | N | Isolation switch on battery | | NO | Battery must be isolated during maintenance | 2 C Medium | | |
| c) Damaged or poorly maintained electrical leads and cables? | | Y | Battery cover | | Y | Fitted | | | |
| | | | Battery decal | | | Fitted | | | |
| d) Damaged switches? | | | No visible sign of damage | | | | | | |

| Potential Hazard | Risk Rating without Controls | Identified | | Control Methods in place | YES NO N-A | Comments - Recommended Improvements | Projected Risk Score | Action Completed | |
|---|------------------------------|------------|--|--------------------------|------------------|--|----------------------|------------------|---------------------------------|
| | | YES | NO | | | | | | |
| 9. FALLING - SLIPPING: Can anyone using the plant or in the vicinity of the plant, slip, trip or fall from a height greater than 2 meters: | | | | | | | | | |
| a) Can someone fall over 2 m.? | 5 B Very High | N | Prevention of falls - hand rails | | N-A | Addressed by handrails, guardrails or S.W.M.S., must be conducted to address the falling issue, rails should be fitted. Company to implement | 2 C Medium | | |
| b) Poor floor or walking surface? | | Y | Nonslip surface - Nonslip tape | | Y | Applied to walking surface | | | |
| c) Lack of proper stairs - steps? | | | Lack of proper stairs - steps? | | | Fitted | | | |
| d) Lack of guardrail-handrail-grabs? | | | Guardrails - handrails - grabs in place use 3 points of contact when climbing warning decal | | | Fitted, Provisions provided to prevent falls from height, Company to implement | | | |
| e) Lack of proper work platform? | | N | Guardrails - harness platform ladder | | N-A | | | | |
| f) Poor housekeeping? | | Y | Operator's cabin clear of debris, tools, chains, grease gun etc. No visible sign of excessive lubricant leakage | | Y | Company to implement | | | |
| 10. ERGONOMIC: Can anyone be injured due to: | | | | | | | | | |
| a) Poor seating? | 4 C High | Y | Seat in usable condition | | Y | | 2 B Medium | | |
| b) Constrained body effort? | | | Seat adjustment controls operating Operator control levers & pedals in operator's reach | | | | | | |
| 11. SUFFOCATION: Can anyone suffocate due to lack of oxygen or atmospheric contamination: | | | | | | | | | |
| | 5 C Very High | Y | Ventilation Heat Stress Air Conditioning | | Y | Carry water and wear correct PPE, Company to implement Fitted | 2 B Medium | | |
| 12. OTHER HAZARDS: Can anyone be injured or suffer ill-health from exposure to chemical, toxic gases or vapours, fumes, dust noise, vibration, radiation, other factors not mentioned: | | | | | | | | | |
| a) Hazardous substances, noise, dangerous goods, plants, manual handling, trenching, prevention of falls? | 5 B Very High | Y | Addressed by compliance codes and training | | Y | Company to implement | 2 C Medium | | |
| b) Noise | | | Within or above 85 dB limit | | | J.S.A. - S.W.M.S. to be in place if over 85 Db | | | |
| | | | Hearing protection supplied | | | Fitted | | | |
| | | | Hearing protection decal | | | Fitted | | | |
| c) Fumes? | | | Engine fumes not excessive at high idle | | | | | | Company to implement Fitted, |
| d) Other items | | | Door window seals serviceable | | | | | | |
| | | | Operator issued with PPE | | | | | | |
| | | | Load capacity chart | | | | | | |
| | Approved lifting point | | | | | | | | |
| | SWL - WLL marked on boom | | | | | | | | |
| e) Chemicals | 4 B High | N | M.S.D.S. (Material Safety Data Sheet) Do not drink decal | | N-A | | 2 C Medium | | |

| Potential Hazard | Risk Rating Without Controls | Identified | | Control Methods in place | YES NO N-A | Comments - Recommended Improvements | Projected Risk Score | Action Completed |
|---|------------------------------|-------------------------------|--------------------------------------|--------------------------|--|-------------------------------------|----------------------|------------------|
| | | YES | NO | | | | | |
| 13. OPERATION: Have the following areas been addressed | | | | | | | | |
| a) Does the operator hold certificate safety, qualification card to operate this item of plant? | 5 C Very High | Holds Relevant Qualifications | | | If operator is not on site, to be addressed by the company | | | |
| | | Y | Certificate No: | Y | Company to implement | | 2 B Medium | |
| | | | Type of Plant: | | | | | |
| | | | Date of Issue: Exp. Date: | | | | | |
| 14. DOCUMENTATION: Can documentation be provided for: If not on site, to be addressed by the company | | | | | | | | |
| a) Daily inspection fault report book? | 2 B Medium | Y | Plant daily inspection book – sheets | Y | Customer to implement | | 1 E Low | |
| Date of last entry | | | | | | | | |
| Records held by company and available on request | | | | | | | | |
| In Operator's Station – Office | | | | | | | | |
| Operator manual in English and in readable condition | | | | | | | | |
| b) Service and maintenance records. | | | Attachment instructions available | | | | | |
| c) Operation manual issued. | | | | | | | | |

The items addressed from the Work Safe Plant Hazard Checklist and the Attached 'Static Hazard & Risk Assessment of Mobile Plant' as follows:

1. ENTANGLEMENT
2. CRUSHING
3. CUTTING
4. SHEARING
5. HIGH TEMPERATURE
6. STRIKING
7. HIGH PRESSURE FLUID
8. ELECTRICAL
9. FALLING - SLIPPING
10. ERGONOMICS
11. SUFFOCATION
12. OTHER HAZARDS
13. OPERATOR
14. DOCUMENTATION

All the above items have been addressed in the 'Static Hazard & Risk Assessment of Mobile Plant' and have been controlled by the following:

This 'Static Hazard & Risk Assessment of Mobile Plant' addresses all the requirements of:

- Occupational Health & Safety Regulations Victoria 2017
- Victorian Occupational Health & Safety Act 2004
- National WHS Regulations
- National Standards (Safe Work Australia)
- The Worksafe booklet "Understanding the Plant Safety Package".
- The Worksafe Plant Hazard Checklist
- The Hierarchy of Hazard Control which addresses:

The Hierarchy of Hazard Control which addresses:

1. Elimination. This is a permanent solution and should be attempted in the first place.
2. Substitution. This includes Plant which presents a lower risk.
3. Engineering. Involves changing the structure e. g: Guarding.
4. Isolation. Separate the person from the Plant, e. g: Operating in an enclosed area.
5. Administrative. Provides a system that reduces the possibility of a person being exposed to the hazard.
6. Personal Protective Equipment. Is generally used as a short-term control measure.

THE HIERARCHY OF HAZARD CONTROL

Elimination. This is a permanent solution and should be attempted in the first place.
Not required for this item of plant.

Substitution. This includes plant, which present a lower level of risk.
Not required for this item of plant.

Isolation. Separate the person from the Plant, e. g. operating in an enclosed area.
Not required for this item of plant.

Engineering. Involves changing the structure, e, g. guarding.
Not required for this item of plant.

Administrative. Provide a system that reduces the possibility of a person being exposed to the hazard.
Addressed by placing safety decals in areas of low risk on this item of plant.

Personal protective equipment. Is generally used as a short-term control measure.
Other than general P.P.E. that is required by all worksites no special P.P.E. is required for the operator of this item of plant.

OTHER CONTROLS

Areas of low risk, decals have been placed to warn operators and workers.
Areas of medium risk, comments have been made and are to be addressed by the owner.
Areas of high risk, the machine will be tagged, "do not use", keys removed and reported to owner.