

# Solid Waste Facility License Application



**Metro**

600 NE Grand Ave.  
Portland, OR 97232  
503-797-1835

## INSTRUCTIONS

**METRO USE ONLY**

Date Received:

1. Complete all applicable parts of application.
2. Review confidentiality section and sign last page of application.
3. Attach required documents. *(If submitting printed copies, please print double-sided.)*
4. Submit application, attachments and application fee to:

Metro  
Waste Prevention and Environmental Services  
600 NE Grand Avenue  
Portland, OR 97232-2736  
Tel: (503) 797-1835  
E-mail: [SWICC@oregonmetro.gov](mailto:SWICC@oregonmetro.gov)

## PART 1 – Standard License Application Information

1. Applicant (Licensee)	
Facility Name:	Ultimate RB Inc. d.b.a. RB Recycling
Company Name:	Ultimate RB Inc.
Facility Street Address, City, State, Zip:	9945 North Burgard Way Portland, Or 97203
Facility Mailing Address, City, State, Zip:	9945 North Burgard Way Portland, Or 97203
Contact Person & Title:	David Adams, Plant Manager
Phone Number:	(503)-407-4965
E-mail Address:	dadams@ultimaterb.com

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## 2. Type of Application (please check one)

<input type="checkbox"/>	New license <i>Date of Pre-Application Conference: _____</i>	<i>Current Metro Solid Waste Facility License Number:</i>  <b><u>L-130-15</u></b>
<input checked="" type="checkbox"/>	Renewal of an existing license	
<input type="checkbox"/>	Change of authorization to an existing license (other than a renewal) <i>Please describe the proposed change below in Section 4.</i>	
<input type="checkbox"/>	Transfer of ownership or control of an existing license	

## 3. Type of facility (please check one)

<input checked="" type="checkbox"/>	Non-putrescible (dry) waste material recovery facility
<input type="checkbox"/>	Source-separated recyclable material recovery facility
<input type="checkbox"/>	Source-separated food waste reload facility
<input type="checkbox"/>	Yard debris reload facility
<input type="checkbox"/>	Yard debris composting facility
<input type="checkbox"/>	Other solid waste reload or processing facility

## 4. If seeking a change of authorization to an existing license, please explain the proposed change below (attach additional pages if necessary). Complete all remaining sections of this form as they pertain to the request.

N/A

## 5. Applicant's Owner or Parent Company

(Provide information for all owners and corporate structure if applicable)

Company Name:	Carlisle Construction Materials
Mailing Address, City, State, Zip:	1275 Ritner Highway Carlisle, Pennsylvania 17013
Contact Person & Title:	David Adams Plant Manager
Phone Number:	(503)-407-4965
E-mail Address:	DAdams@ultimaterb.com

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## 6. Site Operator (if different from Applicant)

Company Name:	
Mailing Address, City, State, Zip:	
Contact Person & Title:	
Phone Number:	
E-mail Address:	

## 7. Site Description

Tax Lot(s): 14	Section: 35-West	Township: T2N	Range: 1-W-WM
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## 8. Land Use

Present Land Use Zone:	Heavy Industrial	
Is proposed use permitted outright?	<input checked="" type="checkbox"/> Yes If yes, attach a copy of the <i>Land Use Compatibility Statement</i> (See Attachment D).	<input type="checkbox"/> No
Is a conditional use permit necessary for the facility?	<input type="checkbox"/> Yes If yes, attach a copy of the <i>Conditional Use Permit</i> (See Attachment F)	<input checked="" type="checkbox"/> No
Are there any land use issues presently pending with the site?	<input type="checkbox"/> Yes If yes, please explain the land use issues below.	<input checked="" type="checkbox"/> No
Description of the pending land use issues identified above:		
Are any permits required from the Oregon Department of Environmental Quality (DEQ)?	<input checked="" type="checkbox"/> Yes If yes, please list all DEQ permits below and attach copies with this application (see Attachment F).	<input type="checkbox"/> No
Listing of all required DEQ permits:	1) DEQ Waste Tire Carrier Permit (in process of renewal currently) 2) DEQ 1200-Z Stormwater Permit 3) DEQ Simple Air Contaminant Discharge Permit	
Are any other local permits or building codes required?	<input type="checkbox"/> Yes If yes, please list all other required permits below and attach copies with this application (see Attachment F).	<input checked="" type="checkbox"/> No
Listing of other required permits:		

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## 9. Land Owner

Is the applicant the sole owner of the property on which the facility is located?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No If no, please complete this section with additional pages if necessary and attach a completed <i>Property Use Consent Form</i> (see Attachment E).
Property Owner:	Carlisle Construction Materials	
Mailing Address, City, State, Zip:	1275 Ritner Highway Carlisle, Pennsylvania 17013	
Phone Number:	(503)-407-4965	
E-mail Address:	DAdams@ultimaterb.com	

## 10. Public/Commercial Operations

Will the facility be open to the public (e.g., non-commercial self-haul customers)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Will the facility be open to non-affiliated commercial solid waste collectors?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Will the facility accept waste from outside the boundary of Metro?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

## 11. Operating Hours and Traffic Volume

	Public (non-commercial self-haul)	Commercial Affiliated	Commercial Non-Affiliated
Operating Hours	7:00 – 3:00 M-F	7:00 – 3:00 M-F	7:00 – 3:00 M-F
Customer Hours (if different)			
Estimated Vehicles Per Day	5	3	16

**12. Inbound Waste/Feedstock by Type**

Identify the types of waste/feedstock and annual tonnage amounts that the applicant expects to receive at the facility. Also, identify how the applicant will manage each waste stream, the expected tip fees that the applicant will post at the facility, and the length of time required to process each waste stream (attach additional pages if necessary).

Waste/Feedstock Type	Accepted at Facility	Expected Annual Tonnage Amount	Type of Activity to be Performed on Waste	Expected Tip Fee (per Ton)	Estimate the maximum and typical lengths of time required to process each day's receipt of each waste/feedstock type
Source-Separated Wood:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Source-Separated Yard Debris:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Source-Separated Yard Debris Combined with Residential Food Waste:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Source-Separated Commercial and Other Food Waste:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Inerts (e.g., rock, concrete, etc.):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Non-Putrescible (dry) Waste:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	33,583	See Appendix 1	See Scrap tire collections	24-48 Hours
Source-Separated Recyclables:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Special Wastes (please specify):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Petroleum Contaminated Soil:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Putrescible (wet) waste:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Other Waste/Feedstocks (please specify):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Other Waste/Feedstocks (please specify):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				

<b>13. Inbound Waste/Feedstock by Generator</b>			
Identify the generator type and the expected annual tonnage of waste/feedstock that the facility will receive and recover from each type. Add additional rows if necessary.			
<b>Generator Type *</b>	<b>Tons Received**</b>	<b>Tons Recovered**</b>	<b>Tons Residual**</b>
Public (non-commercial self-haul)	549	384	165
Commercial Affiliated (Ultimate RB Hauls)	21,613	15,129	6,484
Commercial Non-Affiliated (Outside Companies Haul to us)	11,421	7,995	3,426
<b>TOTAL TONS:</b>	<b>33,583</b>	<b>23,508</b>	<b>10,075</b>

\* Example: commercial, residential, self-haul, etc.

\*\* Tons received = tons recovered + tons residual

<b>14. Outbound Waste and Materials</b>			
List the expected destination and amount of each type of outbound solid waste and materials that the applicant expects to transport from the facility (attach additional pages if necessary).			
<b>Destination Site (Name and address)</b>	<b>Waste/ Material Type</b>	<b>Expected Annual Tonnage</b>	<b>Purpose Of Delivery *</b>
Ultimate RB, Inc. – McMinnville 904 NE 10 <sup>th</sup> Avenue McMinnville, Or 97128	Crumb Rubber	16,972	Beneficial Use: Creating products from recycled rubber
Schnitzer Steel 12005 North Burgard Rd Portland, Or 97203	Scrap Metal from tire wire and rims	5,000	Recovery
Oregon Paper Fiber A Waste Connection Company 5455 NE 109 <sup>th</sup> Avenue Portland, Or 97220	Tire Fiber	5,000	Disposal
Wasco County Landfill 2550 Steele Road The Dalles, Or 97058	Tire Shreds	8,022	Disposal
Finley Buttes Landfill 73221 Bombing Range Road Boardman, Or 97818	Oversized Tires	755	Disposal
Finley Buttes Landfill 73221 Bombing Range Road Boardman, Or 97818	Inner Tubes	4	Disposal

\*Example: disposal, recovery, land reclamation, beneficial use, etc.

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*\*Example: disposal, recovery, land reclamation, beneficial use, etc.*

## 15. Subcontractors

Provide the name, address and function of all subcontractors involved in the facility operations, if applicable (this does not include janitorial staff):

Name	Address	Function

## PART 2 – Standard Attachments to License Application

### *New License, License Renewal and Change of Authorization*

- The applicant must provide a current version of all of the following attachments with each application unless otherwise directed by Metro.
- The applicant must clearly label each attachment submitted as part of the application. A description of each attachment is provided in Appendix A.

Check if included	Attachment
<input checked="" type="checkbox"/>	Attachment A: Site Plan
<input checked="" type="checkbox"/>	Attachment B: Operating Plan
<input type="checkbox"/>	Attachment C: Proof of Insurance
<input checked="" type="checkbox"/>	Attachment D: Land Use Compatibility Statement (LUCS)
<input type="checkbox"/>	Attachment E: Property Use Consent Form (This form is not necessary if the property is solely owned by the applicant)
<input checked="" type="checkbox"/>	Attachment F: Required Permits
<input type="checkbox"/>	Attachment G: Facility Design Plan (NEW CONSTRUCTION ONLY)

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## PUBLIC NOTICE AND CONFIDENTIAL INFORMATION

- This application and all of the supporting documentation that the applicant provides is subject to Metro's public notice procedures. Metro will notify and provide the public with an opportunity to review and comment on the proposed application. The public notice may include, but is not limited to, posting the complete application on Metro's website.
- The applicant may identify as confidential any reports, books, records, maps, plans, income tax returns, financial statements, contracts and other similar written materials of the applicant that are directly related to the proposed application and that are submitted to or reviewed by Metro. The applicant must prominently mark any information that it claims confidential with the mark "CONFIDENTIAL" before submitting the information to Metro. Subject to the limitations and requirements of ORS Chapter 192 (public records law) and other applicable laws, Metro will treat as confidential any information so marked and will make a good faith effort to not disclose that information unless Metro's refusal to disclose the information would be contrary to applicable Oregon law.
- These conditions do not limit the use of any information submitted to or reviewed by Metro for regulatory purposes or in any enforcement proceeding. In addition, Metro may share any confidential information with representatives of other governmental agencies provided that, consistent with Oregon law, those representatives agree to continue to treat the information as confidential and make good faith efforts to not disclose the information.

## APPLICANT CERTIFICATION

An authorized agent of the applicant must sign this application. Metro will not accept an application without a signature.

*I certify that the information contained in this application is true and correct to the best of my knowledge. I agree to notify Metro within 10 days of any change in the information submitted as a part of this application.*

Signature of authorized agent

Dave Adams

Date 03-06-20

Print name

Dave Adams

Title

Plant Manager

Email

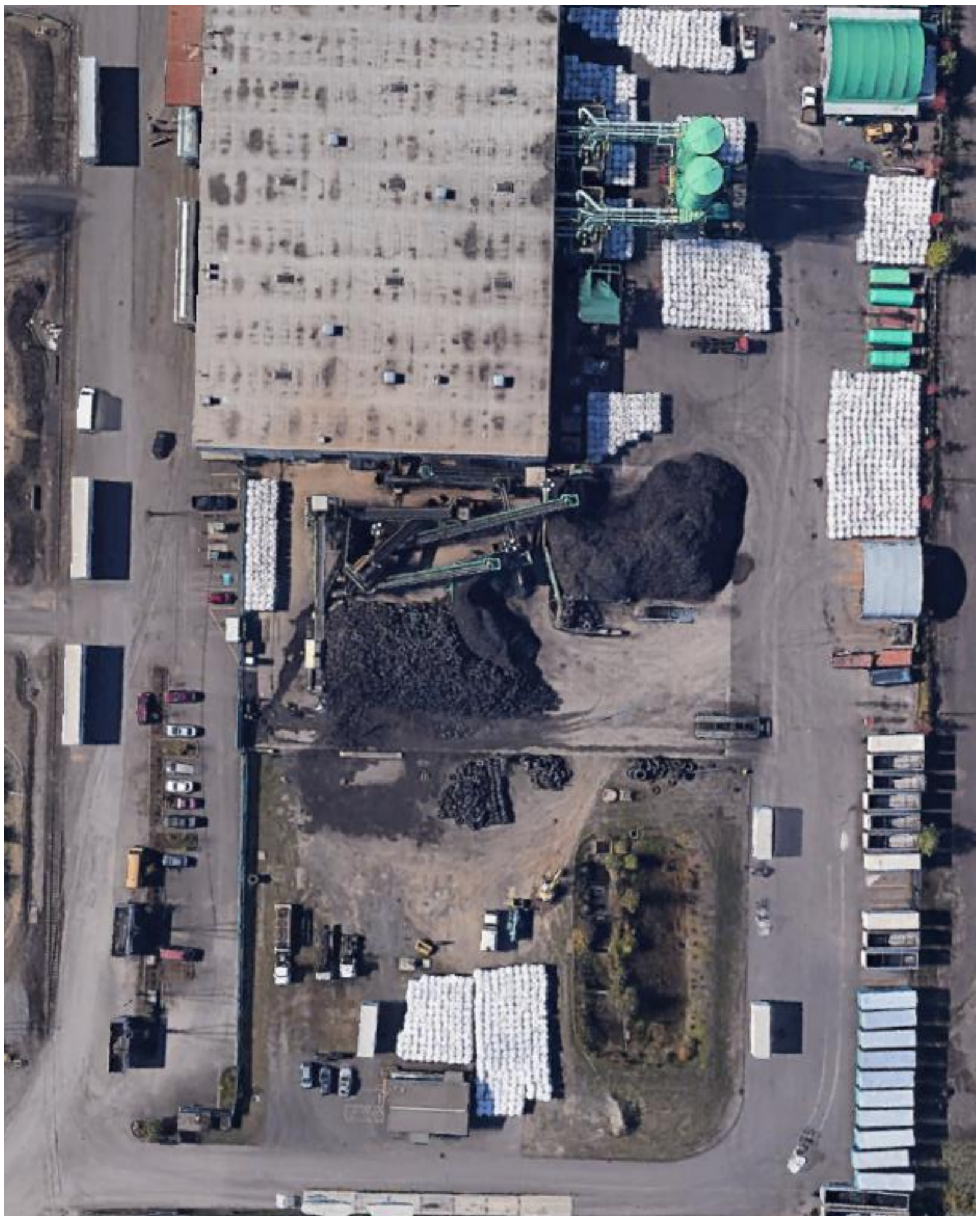
DAdams@ultimaterb.com

Phone (503) - 407 - 4965



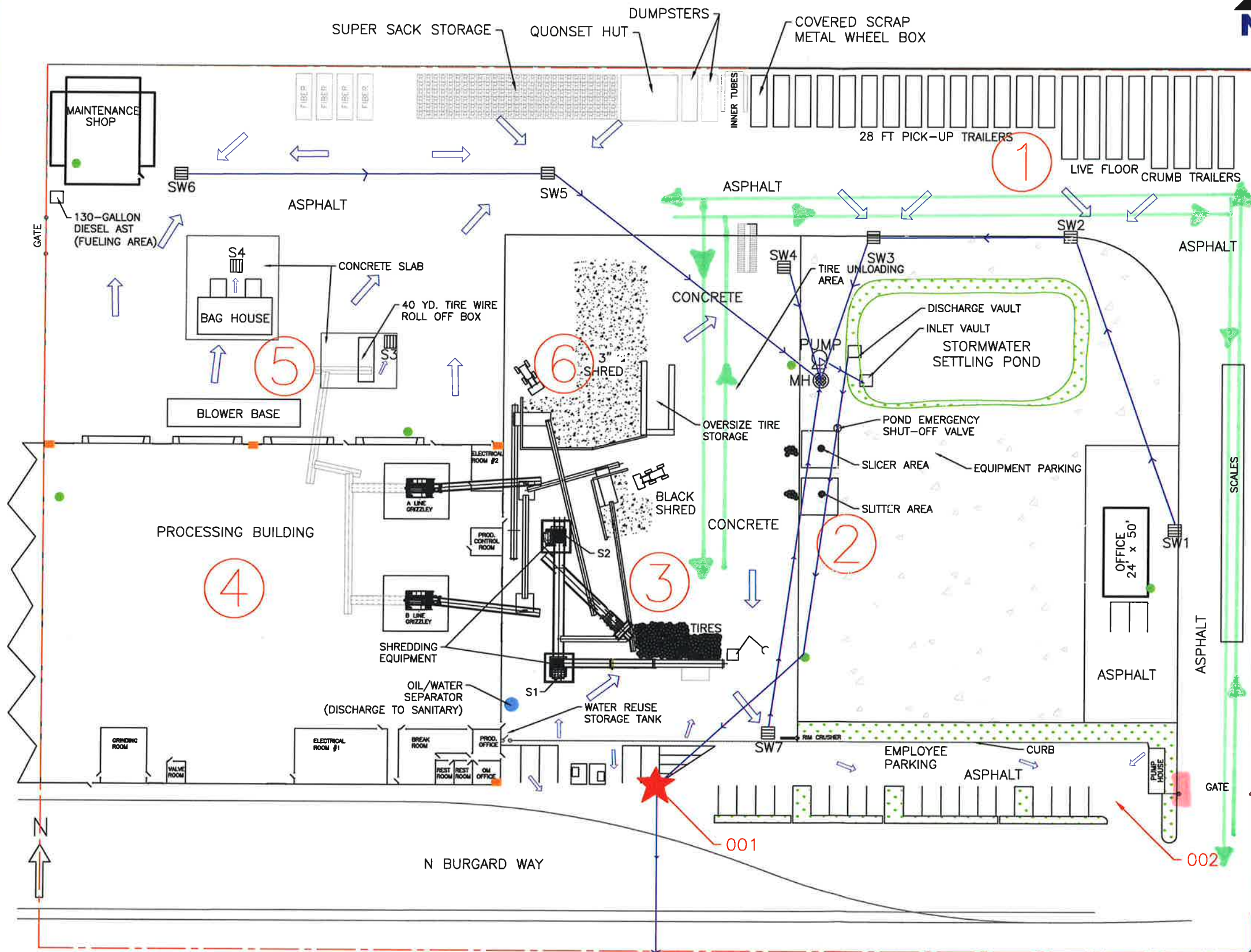
## **Appendix 1**

Ultimate RB receives waste tires that get ground up into a -10 to -12 mesh particle size. During the process the fabric and metal from the tires gets removed. The fiber gets disposed of at a land fill and the metal gets recycled through a metal recycler. If there are rims on the tires the rims are removed and sent to a metal recycler. If there are innertubes associated with the tires they are removed and sent to landfill. The -10 to -12 mesh crumb rubber gets sent off to the Ultimate RB McMinnville facility where products are made from the recycled tire crumb rubber, such as playground tiles, horse stall mats etc.





Last Saved: March 15, 2018 3:49:22 PM by hkeane Drawing path: N:\Portland\Projects\RB Recycling\Burgard Way\SWPCP Dec\_2017\Draft From City of Portland Comments - March 2018\FIGURES\SWPCP 2017 Figures.dwg



#### NOTES

SANITARY CATCH BASINS S1 AND S2 ARE CURBED.  
ALL AREAS ARE PAVED UNLESS OTHERWISE NOTED.  
SCALE IS APPROXIMATE.

Note: All ~~pile~~ pile heights have a maximum height of 18'

#### LEGEND

- SITE BOUNDARY/ML-001 DRAINAGE AREA
- STORMWATER PIPING
- MH● MANHOLE
- PUMP STORMWATER PUMP
- VEGETATION
- ★ MONITORING LOCATION (ML-001)
- 002 DISCHARGE LOCATION
- SW6 STORMWATER CATCH BASIN
- S3 SANITARY SEWER CATCH BASIN
- ← STORMWATER SURFACE FLOW DIRECTION
- GRAVEL
- SPILL KIT LOCATIONS (CONTAINING ABSORBENT PADS AND BOOMS, FLOOR DRY, AND DRAIN COVERS)
- OIL/WATER SEPARATOR
- DOWNSPOUT

- AREAS:
- 1 - DELIVERY/TRAILER DROP OFF
  - 2 - GRAVEL AREA
  - 3 - TIPPING/TIRE PILE
  - 4 - INTERIOR REFINING/PROCESSING
  - 5 - BAG HOUSE DUST COLLECTION
  - 6 - FEED STOCK CHIPS

Traffic flow patterns  
Facility Signage

ULTIMATE RB, INC., D.B.A. RB RECYCLING  
9945 N. BURGARD WAY  
PORTLAND, OREGON

Report

STORMWATER POLLUTION CONTROL PLAN

Drawing

SITE PLAN

Date March 15, 2018

Scale AS SHOWN

Fig. No.

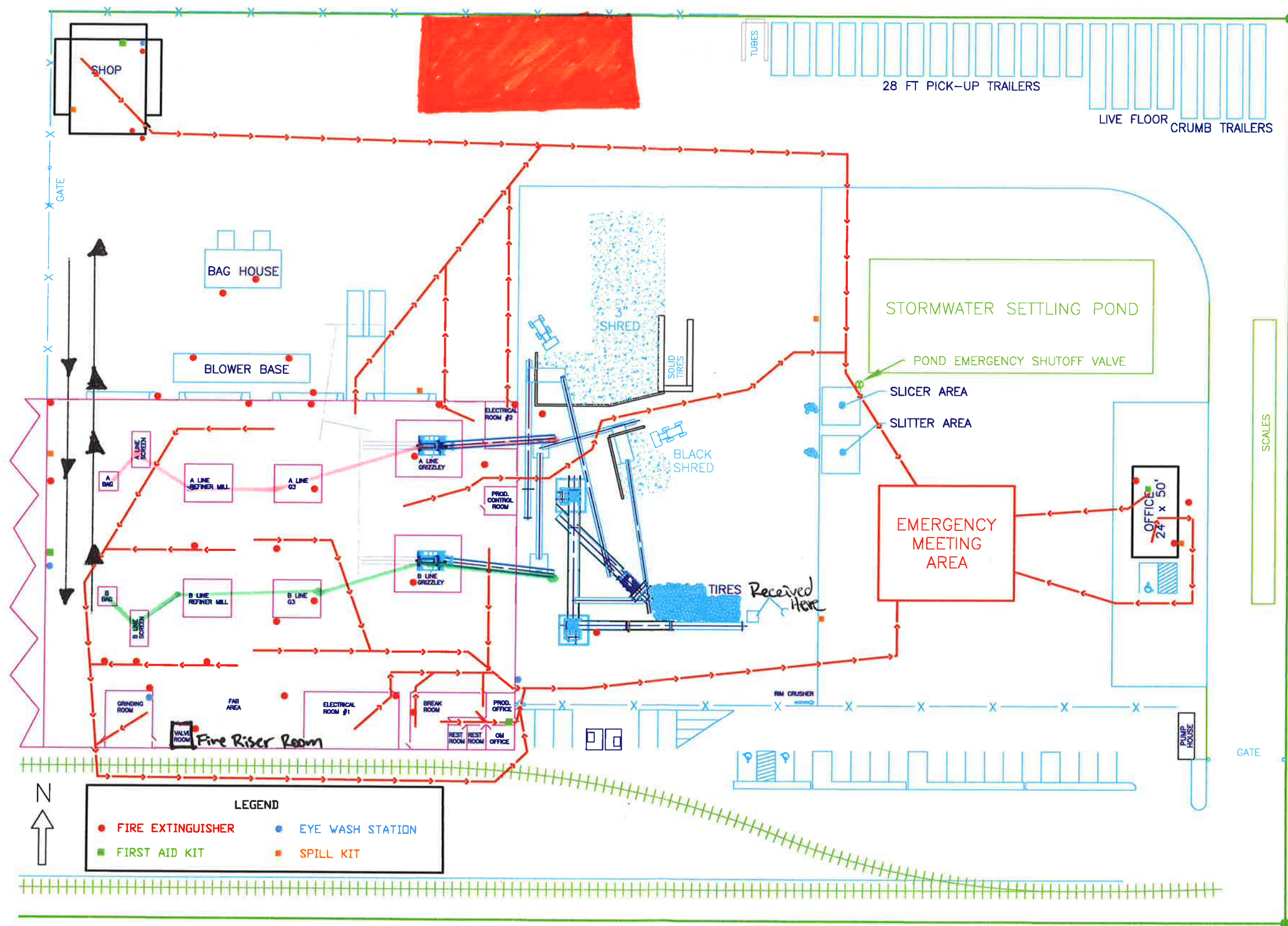
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Project No. 108.01315.00002

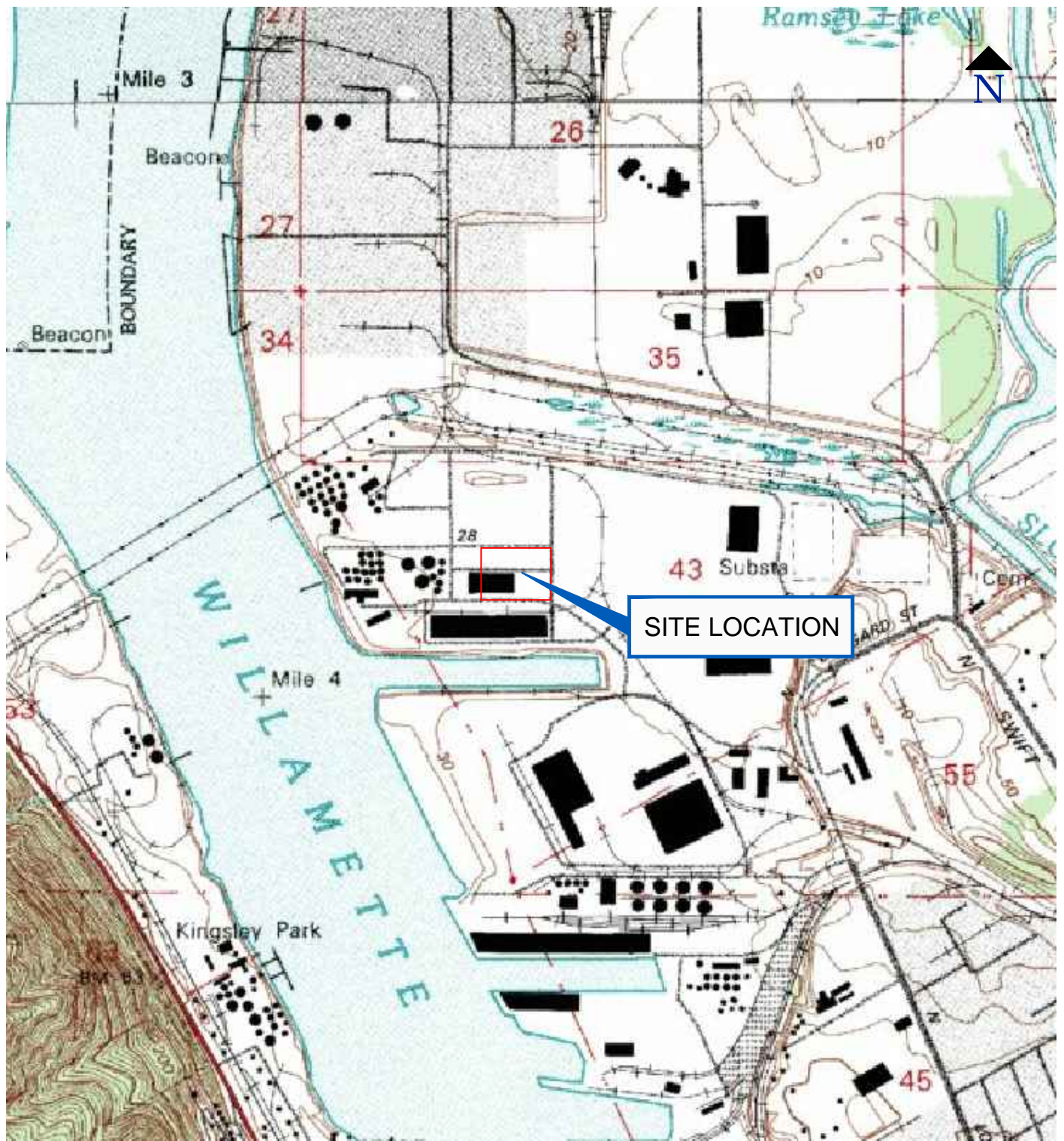
2

SLR









REFERENCED FROM : MYTOPO MAP PASS (MAPCARD) -  
LINNTON, OR, T2N R1W, SECTION 35, 1995

0 0.1 0.2 0.4 0.6 MILES



ULTIMATE RB, INC., D.B.A. RB RECYCLING  
9945 N. BURGARD WAY  
PORTLAND, OREGON

Report

STORMWATER POLLUTION CONTROL PLAN

Drawing

SITE LOCATION

Date March 7, 2018

Scale AS SHOWN

Fig. No.

File Name SWPCP 2017 Figures-1

Project No. 108.01315.00002

1

# Operating Plan for Solid Waste Facility License No. L-130-15

## **Types of Solid Wastes Accepted**

Ultimate RB accepts passenger and light truck tires on and off the rim, duplex tires, semi-truck tires on and off the rim, motorcycle tires, oversized tires, hard compound rubber tires such as forklift tires, and bike tires. In all cases Ultimate RB will accept all tires with or without the tube/liner.

## **Procedures for material recovery**

Industrial activities description, including managing of prohibited wastes can be found in section 3.1 and 3.1.1 of the stormwater pollution control Plan.

## **Procedures for managing waste and other materials**

Can be found in section 3.1.1 and 3.1.2 of the Stormwater Pollution Control Plan. The Stormwater plan mentions that the final product, crumb rubber is put into 1-ton supersacks. Those super sacks are stored outside onsite until they are shipped off to the Ultimate RB McMinnville facility. A truck is what is used to haul the material and a forklift is used to load the truck.

## **Description of general markets for the material that is recovered at the facility**

The crumb rubber produced is a raw material that is used to make playground tiles, horse stall mats, rubber flooring, truck bed liners, and other molded products.

## **Procedures for measuring and keeping records of the amount of material received, recovered & disposed.**

### *Materials Received:*

- Ultimate RB keeps track of all incoming tire volumes on a *Daily Tire Flow Log*.
- Large customers are weighed in/out, and the weight is converted to PTE's (passenger tire equivalents). A PTE is 20-lbs.
- Small customers have their tires physically counted and put into PTE's.
- A monthly spreadsheet is compiled and kept for the operating year and shows monthly and annual PTE volumes (current reporting period is 2012 to 2025).

### *Materials Recovered:*

- We keep track of daily crumb rubber production volumes by bag count. Crumb rubber bags weigh 2,100 pounds each and Ultimate RB tracks daily, weekly, monthly, and annual crumb rubber production.
- Tires are roughly 70% rubber, 15% tire wire, and 15% fiber and other debris. To make 2,100 pounds of crumb rubber, the manufacturing plant consumes 3,000 pounds of tires, or 150 PTE's.

# Operating Plan for Solid Waste Facility License No. L-130-15

- Ultimate RB keeps track of tire wire production on the Schnitzer Steel SIP web site (Scrap Information Portal). The SIP web site shows Ultimate RB's daily tire wire volumes picked up, and monthly net tonnage totals.

## *Materials Disposed:*

- Ultimate RB keeps track of fiber waste pickups (2 to 4 fiber tubes per day) on a monthly Oregon Paper Fiber (Waste Connections) Invoice/Statement. This statement allows management to compute total fiber waste tonnage hauled for the month. Ultimate RB receives the statement the first week of the following month.
- Tire shred for Landfill is hauled to Wasco County and is tracked on a weekly log and kept on a monthly log to compute number of hauls, and individual weights in tons.
- Oversized Tire (OTR) hauls are tracked on the same log as Shred to Landfill hauls.
- Ultimate RB keeps a spreadsheet showing monthly and annual volumes for all crumb rubber production and outbound waste volumes.
- Plant facility garbage and waste is hauled bi-weekly via Arrow Sanitary Services (a division of Waste Connections). We have (1) 6-yard trash dumpster, (1) 2-yard trash dumpster, and (1) 40-yard trash dumpster on-site. In addition, we have (1) 5-yard cardboard and (1) 2-yard cardboard recycling dumpsters that get serviced bi-weekly, as well. The 40-yard dumpster gets picked up when full (about once a month, or more often as needed and we call this request in).

## **Procedures for inspecting loads**

Can be found in section 3.1.1 of the Stormwater Pollution Control Plan.

We do not accept loads that have putrescence waste contained within it.

## **Procedures for storage of waste and other materials**

Can be found in section 3.1, 3.1.1 and 3.1.2 of the Stormwater Pollution. One thing to note is those sections do not discuss managing of stockpiles, as we do not stockpile tires at our facility. Our facility can process around 10,989 tires per day which is about 4,000,000 tires per year, which is why we do not stockpile. Refer to *Materials Disposed* above for Ultimate RB's procedures for removing waste and other material off site.

## **Procedures for rejecting or managing prohibited wastes**

Can be found in section 3.1.1 and 3.1.2 of the Stormwater Pollution Control Plan.

## **Procedures for odor mitigation**

Because Ultimate RB only accepts and processes tires there is no need for an odor mitigation plan as this section does not apply to the facility.

## **Procedures for controlling and minimizing nuisances and other offsite impacts including: noise, vectors, dust and litter.**

# **Operating Plan for Solid Waste Facility License No. L-130-15**

Because Ultimate RB only accepts and processes tires, vectors and litter is not something that the facility needs a plan for. The facility itself is in a zoned Heavy Industrial area so noise is not an issue, and we have not received any complaints concerning noise since the facility started operation in 2012. Our outside production areas do not have gravel flooring, they are made of concrete or asphalt. The concrete and asphalt areas are swept using a street sweeper daily. Our facility does have a compacted gravel area where industrial mobile equipment is parked, and it is also where our stormwater pond is located. Due to this area being a low traffic area, dust is not an issue that needs to be monitored and managed, and we have received no complaints on dust since we started operation in 2012.

Most of the tires delivered or to the Ultimate RB facility are transported using semi-trailers or box trucks and are therefore covered. The public is the only customers that use pickup trucks or trailers for transporting tires. In those cases, it is easier to inspect the load with it being uncovered, which is why we do not encourage the public to cover their load of tires. However, if Ultimate RB Inc. were to receive a complaint, the person managing the front office would be the person who would receive it, and they would record:

- a) The nature of the complaint.
- b) The date the complaint was received.
- c) The name, address, and telephone number of the person or persons making the complaint.

The information would be given to the plant manager and they would get a cross functional team together and use a 5-Why problem-solving format to get to a root cause and determine a corrective action to correct the issue at hand. Any actions taken in response to the complaint will be recorded and retained for one year. All records of such information will be made available to Metro upon request.

## **Procedures the facility will follow in case of a fire or other Emergency**

Can be found in the facilities Emergency Action Plan.

## **Procedures for fire prevention, protection and control measures used at the facility**

The facility has a fire sprinkler system that is always maintained, if the sprinkler system were to go down the facility would stop operations until the system was back up and running. Any hot work performed at the facility follows a hot work permit process and all employees who perform hot work have been trained on the permit processes. The facility also has a FLAMEX system installed in the duct work of the baghouse system. It is a spark and flame monitoring system that can sense a spark or burning material in the ductwork upstream of the collection equipment and suppress it with a minimal amount of water in milliseconds before it can travel further downstream and become an ignition source for a fire or explosion. The facility also has more than the required amount of fire extinguishers mounted throughout the whole facility that are properly maintained.



# **Operating Plan for Solid Waste Facility License No. L-130-15**

## **Closure Procedures**

In the event of a closure or a long-term cessation the facility would sell all crumb rubber in stock and take all remaining tires and tire shred to landfill to ensure that there would be no accumulation of waste left at the facility.

# Bomb Threat Assessment

## Low Risk

Lacks Realism: A threat that poses a minimum risk to the victim and public safety. Probable motive is

- Threat is vague and indirect
- Information contained within the threat is inconsistent, implausible, or lacks detail
- Caller is definitely known and has called numerous times
- The threat was discovered instead of delivered (e.g., a threat written on a wall)

## Medium Risk

Increased level of Realism: Threat that could be carried out, although it may not appear entirely

- Threat is direct and feasible
- Wording in the threat suggests the perpetrator has given some thought on how the act will be carried out
- May include indications of a possible place and time

## High Risk

Specific and Realistic: Threat appears to pose an immediate and serious danger to the safety of

- Threat is direct, specific, and realistic; may include names of possible victims, specific time, and location of device
- Perpetrator provides his/her identity
- Threat suggests concrete steps have been taken toward carrying out the threat

Date: \_\_\_\_\_

Time Caller Hung Up: \_\_\_\_\_

Time: \_\_\_\_\_

Phone number where call was received: \_\_\_\_\_

### Ask Caller

- Where is the bomb located (building, room, etc.)?
- When will it go off?
- What does it look like?
- What kind of bomb is it?
- What will make it explode?
- Did you place the bomb?  
Yes / No
- Why?
- What is your name?

### Exact Words of Threat

### Information about the caller

- Where is the caller located? (background/level of noise):
- Estimated age:
- Is voice familiar? If so who does it sound like?

### Other points

#### Callers Voice

- ☐ Female ☐ Normal
- ☐ Male ☐ Ragged
- ☐ Accent ☐ Rapid
- ☐ Angry ☐ Raspy
- ☐ Calm ☐ Slow
- ☐ Crying ☐ Slurred
- ☐ Deep ☐ Soft
- ☐ Excited ☐ Stutter
- ☐ Lisp
- ☐ Nasal
- ☐ Clearing Throat
- ☐ Coughing
- ☐ Cracking voice
- ☐ Deep Breathing
- ☐ Disguised
- ☐ Laughter

#### Background Sounds

- ☐ Animal Noises
- ☐ House Noises
- ☐ Kitchen Noises
- ☐ Street Noises
- ☐ Booth
- ☐ PA system
- ☐ Conversation
- ☐ Music
- ☐ Motor
- ☐ Clear
- ☐ Static
- ☐ Office Machinery
- ☐ Factory Machinery
- ☐ Local
- ☐ Long Distance

#### Threat Language

- ☐ Incoherent
- ☐ Message Read
- ☐ Taped Message
- ☐ Irrational
- ☐ Profane
- ☐ Well-Spoken

#### Other Information

# Emergency Action Check List

## In the event of an assembly

	Assign head count responsibility
	Assign employee(s) to guide emergency vehicles
	Communicate hazard information to the 911 dispatch and/or fire department
	Maintain record of activities

## In the event of a Power Outage

	Contact the plant manager of the situation
	Contact the power company to determine what happened and how long power is estimated to be out

## In the event of a Spill

	Isolate the spill by stopping the leak or containing the material that is spilling
	Block storm drains
	Notify the EH&S Coordinator

## Emergency Contacts

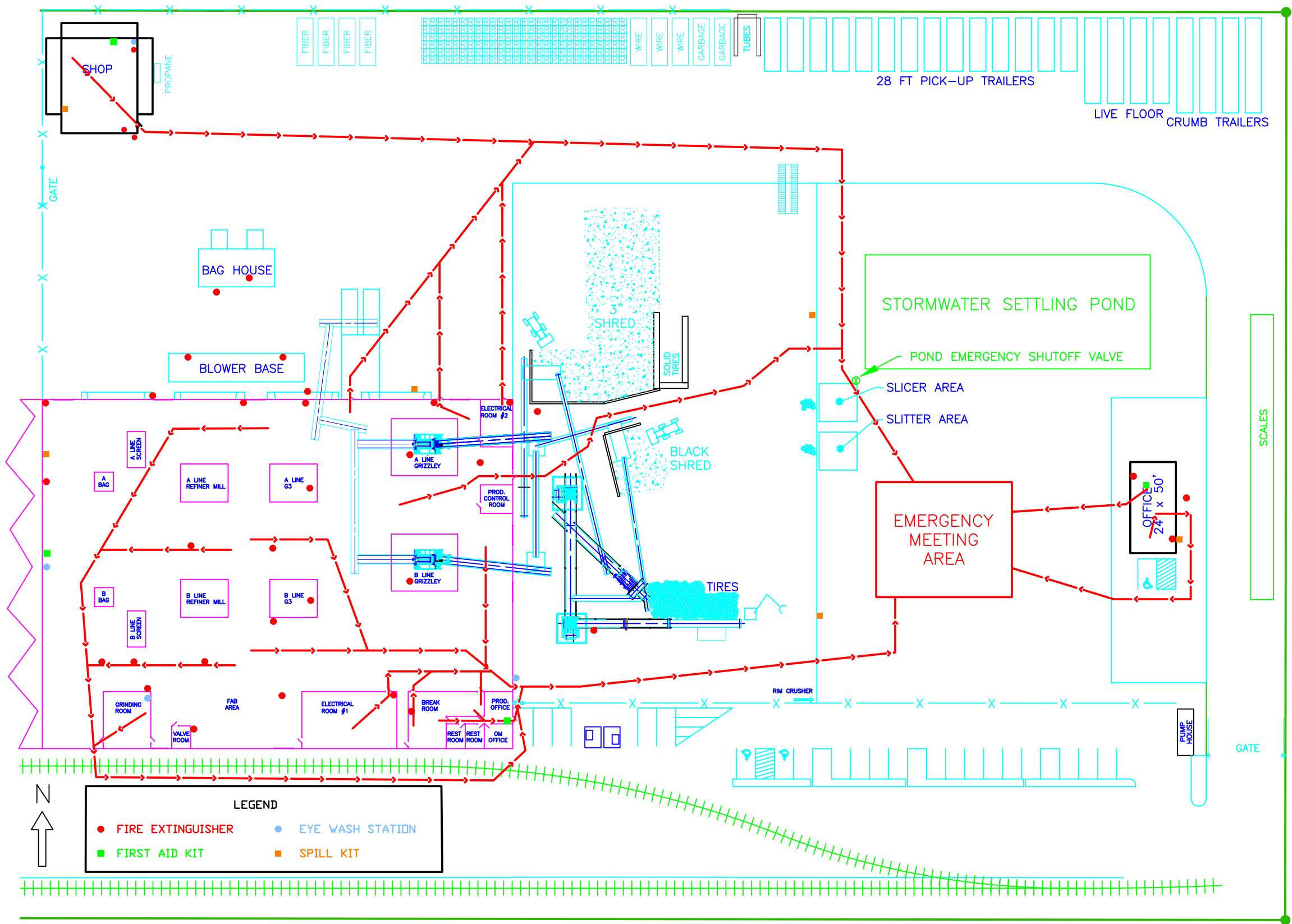
Medical/Fire Emergency: 911
Portland Fire Department Station 22-St. Johns: (503)-823-3700
Portland Water Beuro: 503-823-7770
Portland General Electric: 1-800-542-8818

## Environmental Emergency Contacts

Oregon Emergency Response System (OERS): 1-800-452-0311
National Response Center (NRC): 1-800-424-8802

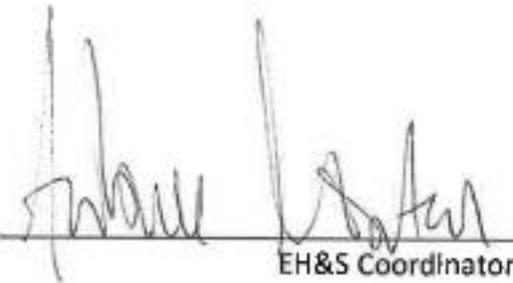
## Non-Emergency Contact

Police Bureau: 503-823-3333
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**Portland  
Emergency Action Plan**Date:  
12-01-2017Revision:  
0Page **1** of **9**

Prepared By:

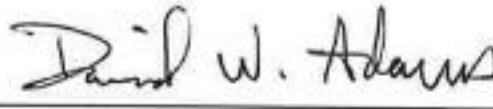
  
EH&S Coordinator

12-12-17

Reviewed By:

The Safety Committee 11-17-2017

Approved By:




12-12-17

Plant Manager

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1) **Scope**

This Emergency Action Plan (EAP) defines actions that will be taken by all personnel (employees, contractors, visitors, etc.) before and during an emergency such as a fire, hazardous material release (oil, used antifreeze, diesel spills), or natural disaster in an effort to minimize hazards to human health, the environment, property and equipment.

2) **Purpose**

This plan outlines how Ultimate RB complies with the following standards;


- Occupational Safety and Health Administration (OSHA) regulations found in 29 CFR Parts 1910.38 (Emergency Action Plans), and 1910.165 (Employee Alarm Systems)
- Oregon Administrative Rules (OAR) 340-142-0001-0130 (Oil and Hazardous Materials Emergency Response)

This EAP establishes the procedures for personnel to identify and report potential emergency situations and potential accidents that can have an impact on people, the environment, property and equipment.

3) **Responsibilities**

- All Employees, Contractors, Vendors, and Visitors: Be aware of your surroundings and job responsibilities. Report actual or potential emergencies such as releases of (oil / antifreeze / diesel), fires, security incidents, suspicious activity, or other emergency situations as explained in **Section 5 Reporting Emergencies**. Be familiar with **Section 7 Assembly and Evacuation Procedures**.
- Managers and Supervisors: Respond to emergencies, the first to arrive on the scene becomes the person in charge. The person in charge arranges for, and coordinates response activities, using the **Emergency Action Checklist, Appendix A**. Trains all contractors performing work for them to the necessary level of competency for this plan. Ensure all employees are trained on the elements of this EAP. This training is typically done as part of a new hire orientation.
- Visitor Escorts: All visitors are expected to be escorted at all times so they act accordingly during an emergency.
- EH&S Department: Train plant personnel to the necessary competency for this plan. Plan and organize regular emergency response drills, annually at a minimum, to practice this plan. Facilitate a critique after incidents and drills to provide feedback and revise procedures as needed. Assist in emergency situations, and accidents to prevent or mitigate associated adverse environmental impacts. Contact Oregon Emergency Response System (OARS), Department of Environmental Quality (DEQ) and/or the National Response Center (NRC) as needed.



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#### 4) **Emergency Escape Routes**

Escape route maps are posted at the scale house office, in the production office, and on the northwest wall of the production floor.

Escape route maps identify the nearest exits out of work areas and the designated assembly area.

All employees are responsible for the following:

- i. Knowing the location(s) of the nearest exit(s) and evacuation route(s) out of their work area(s);
- ii. Knowing the location of the primary assembly area

#### 5) **Reporting Emergencies**

- a. All Employees: Employees that become aware of an emergency (fire, gas leak, injury, spill) need to notify their supervisor immediately. If there is a medical emergency that requires outside assistance CALL 911 and direct someone to notify the supervisor. If the emergency is an active shooter follow **Section 13 Active Shooter Procedure**, and if the emergency is a bomb threat, follow **Section 14 Bomb Threat Procedure**.
- b. Managers and Supervisors: When notified of an emergency, or if you become aware of an emergency (fire, gas leak, injury, spill), initiate the evacuation alarm to assemble or designate someone to initiate the alarm. If the emergency is an active shooter follow **Section 13 Active Shooter Procedure**, and if the emergency is a bomb threat, follow **Section 14 Bomb Threat Procedure**.

#### 6) **Emergency Alarms/Warnings**

Notification to employees of the existence of an emergency and the need to assemble or evacuate occurs by one or more of the following mechanisms:

- i. Fire Alarm
- ii. Fog Horns
- iii. Person to person contact if other methods are inadequate


#### 7) **Assembly and Evacuation Procedures**

Proceed to the designated assembly area through the nearest exit and check in with the person in charge. The designated assembly area is located at the north east portion of the property just south of the settling pond in the large field behind the tire line near the scale house.

Do not use Industrial Mobile Equipment (IME) to get to an assembly area. Do not leave the designated assembly area until instructed to do so by the person in charge.

#### 8) **Procedures to Account for All Employees**

A roster of all employees will be kept at the assembly area, along with this Emergency Action Plan.

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The plant manager will grab the sign in sheet for visitors on their way to the assembly point during normal business hours on day shift.

Each work area supervisor shall identify all individuals not present on site that day and notify the person taking roll.

9) **Fire Plan**

In the event of a fire only employees who have been trained in fire extinguisher use will assess the situation and respond to an incipient stage fire by:

- 1) Assigning someone to report the emergency and initiate the plant evacuation alarm
- 2) Identify a safe evacuation path before approaching the fire
- 3) Discharge the extinguisher using the P.A.S.S. technique
- 4) Evacuate immediately if the fire progresses beyond the incipient stage

10) **Inclement Weather Plan**

During times of extreme weather or other hazardous conditions employees will use their own judgment as to whether or not they can make it in safely. Employees can call in and use PTO or unpaid leave if it is not safe for them to come into work.

The EH&S Coordinator and operations management will meet to discuss the forecast and/or current plant conditions.

**If the event has been forecasted the EH&S Coordinator and operations management will meet ahead of time to confirm the following:**

- Deicer is stocked and available throughout the plant. The Facilities equipment mechanic will ensure that the inventory of deicer is stocked within the facility by November 1st of each year.
- Employees know to contact their supervisors for updates on whether or not the plant is operational.

**During the event, the EH&S Coordinator and the operations management will meet to evaluate the current conditions and consider the following while developing a risk reduction plan:**

- Can employees safely travel on outdoor walkways?
  - Potential Actions: use the front loader and/or shovels to clear walkways to critical areas of the plant; apply deicer; stay inside if possible
- Can IME be operated outside in a safe manner?
  - Potential Actions: Use the front loader to clear pathways to critical areas of the plant; apply deicer

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- Did enough staff report to work to safely continue operating production equipment?
  - Potential Actions: Shutdown the plant.
- Do conditions dictate a full or partial day closure?
  - Potential Actions: Shutdown the plant for a partial or full day.
- What notifications need to be made to employees?
  - Potential Action: Supervisor will notify their employees of any restrictions or closures due to weather.

**11) Power Outage Plan**

In the event of a power outage employees will follow **section 7 Assembly and Evacuation Procedures**. Once the plant has assembled the person in charge will follow the emergency action checklist to determine the cause of the outage and how to proceed from there.

**12) Earthquake Plan**

There are 3 basic actions that all employees should take when an earthquake occurs:

- 1) DROP to the ground (before the earthquake drops you!),
- 2) COVER your head and neck with your arms and seek shelter by getting under a sturdy desk, table or piece of equipment if nearby; and
- 3) HOLD ON to your shelter and be prepared to move with it until the shaking stops.

If there is no table or desk near you, drop to the ground and then, if possible, move to an inside corner of the room. Be in a crawling position to protect your vital organs and be ready to move if necessary and cover your head and neck with your hands and arms.

Do not move to another location or run outside. Earthquakes occur without any warning and may be so violent that you cannot run or crawl. You are more likely to be injured if you try to move around during strong shaking. Also, you never know if the initial jolt will turn out to be the start of a big earthquake ... and that's why you should always Drop, Cover and Hold On!

In the event of an earthquake, the above procedures will be followed, the assembly and evacuation of the plant will occur after the earthquake has come to an end and it is safe to proceed to the assembly area.

**13) Active Shooter Procedure**

Quickly determine the most reasonable way to protect your own life.

**1) Evacuate**

If there is an accessible escape path, attempt to evacuate the premises.

Be Sure To:

- Have an escape route and plan in mind

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- Evacuate regardless of whether other agree to follow
- Leave your belongings behind
- If possible help others escape
- Prevent individuals from entering an area where the active shooter may be
- Keep your hands visible
- Follow the instructions of any police officers
- Do not attempt to move wounded people
- Call 911 when you are safe

**2) Hide Out**

If evacuation is not possible, find a place to hide where the active shooter is less likely to find you. Turn off any source of noise (cell phone, radio etc.) and remain quiet.

Your hiding place should:

- Be out of the active shooter's view
- Not trap you or restrict your options for movement

To prevent an active shooter from entering your hiding place:

- Lock the door
- Blockade the door with heavy furniture

**If evacuation and hiding out are not possible**

- Remain calm
- Dial 911, if possible, to alert police to the active shooter's location
- If you cannot speak leave the line open and allow the dispatcher to listen


**3) Take action against the active shooter**

As a last resort, and only when your life is in imminent danger, attempt to disrupt and/or incapacitate the active shooter by:

- Acting as aggressively as possible against him/her
- Throwing items and improvising weapons
- Yelling
- Committing to your actions

**4) How to respond when law enforcement arrives**

- Remain calm, and follow officers' instructions
- Put down any items in your hands
- Immediately raise hands and spread fingers
- Keep hands visible at all times
- Avoid making quick movements toward officers such as holding on to them for safety
- Avoid pointing, screaming and/or yelling
- Do not stop to ask officers for help or direction when evacuating, just proceed in the direction from which officers are entering the premises.

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The first officers to arrive to the scene will not stop to help injured persons. Rescue teams comprised of additional officers and emergency medical personnel will follow the initial officers. These rescue teams will treat and remove any injured persons. Once you have reached the safe location do not leave that location until law enforcement authorities have instructed you to do so.

Once officers have instructed you to leave, meet at the assembly area so we can account for all individuals and determine who, if anyone, is missing and potentially injured.

#### 14) **Bomb Threat Procedure**

Bomb threats are most commonly received via phone, but are also made in person, via email, written note, or other means.

If you receive a bomb threat:

##### 1) **By Phone**


- Remain calm and do not hang up
- If possible, signal other staff members to notify EH&S Coordinator, Plant Manager, or Supervisor
- Copy phone number from display if possible
- Write down the exact wording of the threat
- Keep the caller on the line for as long as possible and if possible use **Appendix C, Bomb Threat Checklist**, to gather as much information as you can

##### 2) **Verbal Threat**

- If the perpetrator leaves, note which direction they went
- Notify the EH&S Coordinator, Plant Manager, or Supervisor
- Write down the threat exactly as it was communicated
- Note the description of the person who made the threat
  - Name (if known)
  - Body size (height/weight)
  - Distinguishing features
  - Race
  - Type/color of clothing
  - Hair and eye color
  - Voice (loud, deep, accent etc.)

##### 3) **Written Threat**

- Handle the document as little as possible
- Notify the EH&S Coordinator, Plant Manager, or Supervisor
- Rewrite the threat exactly as is on another sheet of paper and note the following
  - Date/time/location document was found
  - Any situations or conditions surrounding the discovery/delivery
  - Full names of any personnel who saw the threat

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- Secure the original threat, DO NOT alter the item in any way
- If small/removable, place in a bag or envelope
- If large/stationary, secure the location

#### **4) Emailed Threat**

- Leave the message open on the computer
- Notify the EH&S Coordinator, Plant Manager, or Supervisor
- Print, photograph, or copy the message and subject line and note the date and time

The EH&S Coordinator, Plant Manager or Supervisor will evaluate the threat using Appendix D considering all the facts and the context to determine the risk before notifying the police. Determining the risk will give you more information to give the police during your call.

#### **15) Rescue & Medical Duties for Responding Employees**

No employee will attempt any rescue unless properly trained, equipped and not placed in danger. Only employees who have been trained in First Aid/CPR/AED and Blood Borne Pathogens can render first aid and will only render care within their capabilities and training. If the treatment required is beyond the level of First Aid keep the victim calm and call or direct someone to call 911.

#### **16) Spill Response**

Employees are trained annually on spill response, which includes spill kits, materials to use, and how to dispose of the cleanup material. There is an emergency shut off valve that stops the flow of the pond to the stormwater outfall located about 20 feet southeast of the pond. In the event of a spill that makes it to a stormwater catch basin the emergency shut off valve would be closed to prevent any water from the pond from getting to the stormwater outfall. The pond would then be cleaned out before opening the shut off valve back open. In the event of a minor release employees will notify their supervisor right away and clean up the spill. The supervisor will notify the EH&S Coordinator of the size of the spill, whether or not the spill entered a storm drain or impacted soil. From there the EH&S coordinator will call OARS, or NRC if needed.

#### **17) Review Process**

The EH&S Coordinator monitors, reviews and updates this EAP when any of the following occur:

- 1) There is a revision or introduction of new applicable regulations
- 2) The plan fails in an exercise or real emergency
- 3) Changes to the configuration of the assembly area
- 4) Introduction of new hazards into the assembly area





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## Stormwater Pollution Control Plan

Site Name: Ultimate RB Inc., D.B.A. RB Recycling

Site Owner: Ultimate RB, Inc., D.B.A. RB Recycling, a Carlisle  
Construction Materials, LLC Company

Physical/Mailing Address: 9945 N. Burgard Way, Portland, OR 97203

County: Multnomah County

**SLR Ref:** 108.01315.00002

**Original Plan Date:** April 2012

**Update:** February 2020

**Plan Prepared By:** SLR International Corporation, R. Scott Miller, P.E. and Mel Bocianowski

**EPA Permit No.** ORR 607190, **DEQ Permit File:** 119308

**Contact Person:** Aubree Minton

**Contact Email address:** AMinton@ultimaterb.com

**Contact Phone Number:** 503-472-4691

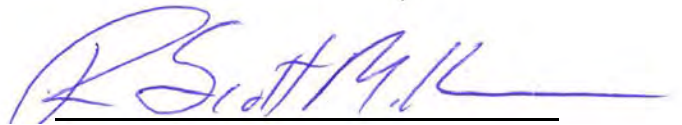
**Primary SIC Code:** 5093

# Stormwater Pollution Control Plan

Prepared for:

**ULTIMATE RB, INC., D.B.A. RB RECYCLING,  
A CARLISLE CONSTRUCTION MATERIALS, LLC. COMPANY**  
9945 N. Burgard Way  
Portland, OR 97203

This document has been prepared by SLR International Corporation. The material and data in this report were prepared under the supervision and direction of the undersigned.



---

R. Scott Miller, P.E.  
Principal Engineer



---

Melanie Bocianowski  
Senior Geologist



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## 1. MANAGEMENT APPROVAL AND CERTIFICATION

---

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed Name of Official: \_\_\_\_\_

Anbree Monten

Title of Official: \_\_\_\_\_

EHS Coordinator

Signature of Official: \_\_\_\_\_

Anbree Monten

Date: \_\_\_\_\_

2-13-20

## **2. INTRODUCTION**

---

This Stormwater Pollution Control Plan (SWPCP) sets forth the procedures, methods, and equipment used to prevent the pollution of stormwater discharges from Ultimate RB, Inc., D.B.A. RB Recycling, a Carlisle Construction Materials, LLC Company (RB Recycling, site, or facility). This SWPCP is part of the requirements to fulfill the National Pollutant Discharge Elimination System (NPDES) Stormwater Discharge Permit for Industrial Activities (General Permit) administered by the Oregon Department of Environmental Quality (DEQ).

The information contained in this plan is current as of the date of this SWPCP and is subject to change based on DEQ requirements. Refer to the most updated permit for potential revisions since the date of this SWPCP.

SWPCP review and revision is important to continued plan effectiveness, implementation, and compliance. Plan review and revision may be initiated through a variety of activities, inspections, and agency requirements. The SWPCP will be revised, as appropriate, and revisions implemented, per Schedule A.8 of the General Permit, and documented on the form in Appendix B.

### **3. SITE DESCRIPTION (SCHEDULE A.7.b.ii)**

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#### **3.1 INDUSTRIAL ACTIVITIES DESCRIPTION (SCHEDULE A.7.b.ii)**

RB Recycling, Inc. of Portland, Oregon is located at 9945 N. Burgard Way, Portland, Multnomah County, Oregon, 97203. The property is approximately 6.1 acres of a larger parcel that is approximately 9.8 acres in size, and it is located in the Burgard Industrial Area adjacent to the Willamette River. Figure 1 has been included as a Site Location Map, and Figure 2, Site Plan, depicts the layout of the facility including all referenced Areas.

RB Recycling leases the western portion of the Processing Building to Wilbur Ellis, approximately 25,000 square feet. Wilbur Ellis obtained a No Exposure Conditional Exclusion from Permit Coverage from the Oregon DEQ. This leased portion of the site is not included in this Plan.

RB Recycling is a used tire and scrap rubber recycling facility that produces -10 to -20 mesh natural crumb rubber that is shipped offsite. RB Recycling accepts only tires and industrial scrap rubber. Contaminated loads are rejected if containing putrescence waste. Loads that contain dirt or vegetated waste are charged a contamination fee based on the amount in the load. RB Recycling consists of an outside process yard, inside process equipment, dust collector, storage yard, trailer storage area, scale, and infiltration pond.

##### **3.1.1 INDUSTRIAL ACTIVITIES DESCRIPTION (SCHEDULE A.7.b.ii)**

Tires are dumped in the tipping/tire pile area, Area 3, and oversized tires are separated out and stored in Area 6, west of the feed stock chips, and sent to an approved landfill location. From the tipping area, tires are placed onto the tire line conveyer and are fed into the first shredder of the process. The shredder will process approximately 1,450 tires per hour.

After the first pass through the exterior shredder, the tire-shreds move across a disc screen to be classified down to a 3"-minus size. The tire shreds will re-circulate back through the shredder for approximately 3.2 passes until the 3"-minus size has been reached. After dropping through the disc screen, the material passes under a metal detector and is augured to one or both of the additional internal processing lines.

All of the 3"-minus rubber is further processed to a 1"-minus rubber. During this additional processing, the embedded wire in the tires is removed by a 40-foot action screener. The tire wire is then conveyed to the outfeed conveyer system that offloads the tire wire into a 30 yard roll-off bin. The roll-off bin is then sent off for recycling. All of the 1"-minus rubber is conveyed to another granulator that produces a 1/4" minus rubber. This 1/4" minus rubber is conveyed to a holding bin before being sent to a dual-drive cracker-mill that creates the final product, a fine rubber dust (#12 mesh). The final product is shipped offsite in 1-ton super-sack containers to be used as raw material for other manufacturing processes, and molded products produced at the Ultimate RB, D.B.A RB Rubber plant in McMinnville, Oregon. Throughout the cracker-mill process, a dust collection system vacuums out localized dust to two 65-foot cyclone separators in Area 5. The vacuumed fiber passes through airlocks and drops into totally enclosed compactors to be transported to an approved landfill location.

All material that enters and leaves the plant is weighed on scales. Material that is sold is billed off of the scale tickets. All waste products (tire fiber) are scaled and transported to an acceptable regional landfill.

All loads are visually inspected by a yard attendant upon arrival at the site. The attendant is required to inspect the load for prohibited materials. If mixed media is visible, RB Recycling will only take tires that can be easily removed from the load; if tires are mixed throughout, the load will be rejected. Some loads will come in with small amounts of soil or vegetation in the tires, and RB Recycling will either accept the load with a contamination charge or advise the client to clean the load and return later. The criteria for acceptance of loads is clear, absolutely no putrescence waste or other waste materials will be accepted.

### **3.1.2      SIGNIFICANT MATERIAL STORAGE (SCHEDULE A.7.b.ii)**

This section includes a summary of the significant materials stored, used, treated, or disposed of in a manner that allows exposure to stormwater.

- **Used/Processed Tire Storage:** The temporary tire storage is located on a concrete pad east of the Processing Building. The concrete pad is elevated and designed to collect process water and oils from the equipment. The pad has a maximum holding area of 100,000 passenger tire equivalent. The tire pile is processed into 3" chips and placed on the conveyors before entering the interior processing equipment. Two curbed sanitary catch basins under the shredding equipment in the containment area collect stormwater runoff and route it to an oil/water separator, then to a water reuse storage tank located adjacent to the southeast corner of the Processing Building in Area 3. Any excess water that is not reused goes to the existing sanitary sewer main line, which runs along the south side of the property. The precipitation may potentially leach trace quantities of the tire manufacturing constituents into stormwater entering the stormwater drainage system. Stormwater from this area discharges to three stormwater catch basins, SW4, SW5, and SW7. Per the Tier II Corrective Actions, new catch basin filters with sodium based exchanged media, manufactured by Gullywasher, will be installed at catch basins SW5 and SW7 to reduce the metals entering the stormwater system. After flowing through the new filters, the stormwater from these catch basins drains into a manhole through underground piping that pumps the runoff to an existing infiltration pond.
- **Recyclable Steel (wheels/tire wire):** Recyclable steel wheels are stored in a covered scrap metal wheel bin located along the northern property line, north of Area 6. Stormwater in this area discharges to stormwater catch basins SW3, SW4, and SW5. The catch basins drain into a manhole through underground piping that pumps the runoff to an existing infiltration pond. Tire wire is off-loaded into a 40-yard roll-off bin, located on a concrete pad in Area 5, outside to the northeast of the Processing Building. Once loaded, the 40-yard roll-off bin is stored onsite along the northern fence line under a Quonset hut cover, until transported and recycled offsite. The pad was originally designed to divert stormwater in this area to a sanitary sewer catch basin S3. RB Recycling is currently evaluating potential construction options to improve the drainage in this area and better direct water into the sanitary sewer catch basin. The precipitation may potentially leach trace quantities of metals into stormwater entering the drainage system. Stormwater in this area discharges to stormwater catch basins SW3, SW4, and SW5. The catch basins drain into a manhole through underground piping that pumps the runoff to an existing infiltration pond.

- **Recyclable Rubber (rubber chips and final product):** The feed stock rubber chips are stored in Area 3 and Area 6, and the final product is stored throughout the site in super sacks ready for delivery. Stormwater from the chip storage area in Area 3 drains to the stormwater catch basin SW7 in the southeast corner of the concrete pad, and stormwater from Area 6 drains to stormwater catch basins SW4 and SW5. All of these catch basins drain to a manhole that contains a pump that pumps the stormwater to the onsite stormwater infiltration pond.
- **130-Gallon Diesel tank:** A 130-gallon, TransCube O5TCG model, diesel aboveground storage tank (AST), that is double walled (110% containment) and has a built-in lid where the nozzle is kept under cover any time it is not actively being used. The AST is stored in the northwestern corner of the site, south of the Maintenance Shop. The tank is used as a reserve to fuel equipment in between when a fueling company comes to fuel equipment, which is scheduled to occur twice per week. Fueling of equipment from plant personnel happens where the diesel tank is stationed; there is no mobile fueling conducted onsite except by the contracted fueling company. Stormwater from the AST area drains to stormwater catch basin SW6 that drains to a manhole that contains a pump that pumps the stormwater to the onsite stormwater infiltration pond. A catch basin cover is placed over the nearby catch basin during fueling operations.

### **3.1.3 MATERIAL FROM PREVIOUS OPERATIONS (SCHEDULE A.7.b.iii)**

There is no known soil or groundwater contamination from previous operations at the site.

### **3.1.4 BUSINESS HOURS (SCHEDULE A.7.b.iv)**

The facility is operated 24 hours a day, Monday through Friday. Responsible personnel are either onsite or on call during all hours. Normal business hours for administration and staff are 7:30 a.m. to 4:00 p.m. Monday through Friday.

## **3.2 TIER II STATUS (A.11.K)**

Per Schedule A.12 of the 1200-Z permit, RB Recycling evaluated the stormwater sampling results collected during the 2nd year of permit coverage and determined that the geometric mean value of zinc, copper, and total suspended solids (TSS) in Discharge Point 001 exceeded the statewide benchmark limits. RB recycling has contracted SLR to assist with evaluation and implementation of stormwater treatment measures at the Site. SLR has also revised this SWPCP to incorporate the proposed treatment measures.

In order to enhance treatment of stormwater before it is pumped into the stormwater settling pond, RB Recycling plans to install new types of filters and filter media inserts into the SW5 and SW7 catch basins. These catch basins collect stormwater from active operational areas, including tire wire collection and tire storage and shredding. RB's plan includes the installation of "MetalCompliant" filter inserts manufactured by Gullywasher that contain a sodium based exchange media for removing both suspended and dissolved metals from the stormwater. According to research by Gullywasher, this new media will reportedly allow for fast exchange times and the media can be washed and reused several times before replacing.

Analytical data from provided by Gullywasher for the MetalCompliant filter demonstrate reductions in copper of an average of 72 percent, reductions in zinc of an average of 89 percent, and reductions of TSS of an average of 96 percent. The geometric mean of the copper, zinc, and TSS samples in 2018-2019 exceeded the statewide benchmark by approximately 40 percent, 57 percent, and 65 percent, respectively; therefore, the addition of new filter inserts should treat the discharge to below benchmark.

The National Oceanic and Atmospheric Administration (NOAA) Atlas 2 Precipitation Frequency Estimates was used to find the design storm (2-year, 24-hour) for the Site. The design storm was determined to be 2.16 inches of precipitation with a 0.09 inches per hour precipitation intensity. Gullywasher has published flowrate testing data for each size catch basin insert. The size of 16 inches x 32 inches was chosen for the SW5 and SW7 catch basins, and the average flow through the catch basin filter of this size was reported to be 83.5 gallons per minute (gpm). The areas treated by each of the catch basin filters and the design storm values (including the Water Quality Design Factor of 50%) were used to calculate design storm flowrates through the proposed filters. The calculations identified that both the SW5 and SW7 filters will be able to handle a design storm flowrate.

The installation of the filters is planned for the first half of 2020. The catch basin filter basket and filter media will be visually inspected during the monthly stormwater inspections. When accumulation of debris and or solids is observed visually in the filter baskets and when the media is close to saturation based on sampling results, RB Recycling will remove and wash the exchange media for reuse, at least once every six months. The exchange media from the filter will be washed in an enclosed area by catch basin S3, and the wash water will be discharged to the sanitary sewer. At the time of filter material wash, the catch basin filter units will also be maintained. RB Recycling has also improved other existing BMPs including increased maintenance of the existing catch basin filters. The goal of the increased filter cleaning is to improve the TSS treatment of the stormwater before entering the stormwater settling pond.

In 2014, RB submitted a Tier II Waiver that demonstrated that the projected mass reduction in stormwater in the settling pond is approximately 50%. In September 2019, RB contracted a vendor to remove sediments via vacuum truck in the first three weirs of the stormwater settling pond. The removed sediment was properly disposed of offsite. The pond will continue to be cleaned on an annual basis. With the increased cleaning of the existing catch basin filters, the continued maintenance of the settling pond, and the corrective actions used to address the zinc and copper concentrations, the TSS discharge concentrations should also be improved.



### **3.3 POTENTIAL POLLUTANT SOURCES (SCHEDULE A.7.b.v)**

The potential stormwater pollutant sources at RB Recycling are summarized below according to storage location, operation, and/or process area, along with the associated risk. Areas referenced in this section are illustrated on Figure 2. The most common potential stormwater pollutants at used tire recycling facilities are those generated by tire shredding and scrap metal operations, and spills and leaks of petroleum-based fluids. The most common pollutants include the following.

- Phosphorus
- Aniline
- Zinc
- Phenol
- Copper
- Aluminum
- Iron
- Manganese

#### **3.3.1 TIRE SHREDDING**

The shredding processes are located in Area 3, and include shredding the tire down through multiple passes through the system to a desired size. The potential pollutants to enter the stormwater system from these processes include: heavy metals (copper, phosphorus, zinc, aluminum, iron, and manganese) and TSS. Rubber debris could also increase other rubber related polycyclic aromatic hydrocarbons (PAHs) such as aniline and phenol.

#### **3.3.2 TANK LOADING AND UNLOADING**

Used oil is stored in Department of Transportation (DOT) approved totes inside in the northwest corner of the Processing Building (Area 4) and in the Maintenance Shop. A double walled diesel AST is stored outside as shown on Figure 2. The diesel tank is filled by tanker truck and the used oil totes are emptied by tanker truck. Equipment throughout the facility is also filled by a diesel tanker truck twice per week in the area of the diesel AST. Hoses and pipelines are used to transfer oil from the tanker truck to the AST. Stormwater contacting the truck and exposed hoses and pipelines, or any spilled material, could possibly enter the stormwater conveyance system. The potential pollutants from tank transfers include oil and grease and an increase in TSS.

#### **3.3.3 OUTDOOR STORAGE**

The following is a summary of the materials that are stored outside at RB Recycling that have the potential to impact stormwater quality and the potential pollutants associated with the storage activities.

- A 130-gallon, double-walled (110% containment), diesel AST is located outside, south of the Maintenance Shop. The diesel tank has a built in lid where the nozzle is kept under cover any time it is not actively being used. When a piece of equipment needs to be fueled, in-between when the diesel tanker truck fuels the equipment, the equipment is brought to

the diesel tank where the operator is present during the fueling process. There is a spill kit located within 10 feet of the diesel tank, which contains a drain cover. The potential pollutant from the tank is diesel fuel.

- Processed and unprocessed tires are stored on the concrete pad east and north of the shredding equipment in Areas 3 and 6. The potential pollutants from the tire storage are TSS and heavy metals including copper, phosphorus, zinc, aluminum, iron, and manganese.
- Scrap metal storage is located along the northern property fence line under a Quonset hut. The potential pollutant from the scrap metal storage is heavy metals including copper, phosphorus, zinc, aluminum, iron, and manganese.
- The 40-yard roll-off bin for tire wire scrap is located on the north side of the Processing Building in Area 5 under a Quonset hut. The potential pollutants from this process are heavy metals including copper, phosphorus, zinc, aluminum, iron, and manganese.
- 1-ton super sacks of final product, #12 rubber mesh, are stored throughout the property. The potential pollutants from the tire dust storage are TSS and heavy metals including copper, phosphorus, zinc, aluminum, iron, and manganese.
- Equipment parking and storage are located in Area 2. The ground cover in Area 2 is gravel. The potential pollutant from equipment parking and storage is oil and grease.

### **3.3.4 DUST COLLECTION SYSTEM**

The dual-drive cracker mill operations at the facility are controlled through the use of a dust collection system that vacuums out localized dust to two 65-foot cyclone separators and a baghouse. The vacuumed fiber passes through ducting and airlocks and drops into totally enclosed compactors. Materials are transferred to and from the dust collectors through ducting. The potential pollutant from the dust collectors and conveyors is rubber debris which could increase the TSS the stormwater. Rubber debris could also increase other rubber related PAHs such as aniline and phenol.

### **3.3.5 MAINTENANCE/VEHICLE ACTIVITIES**

A Maintenance Shop is located to the north of the Processing Building in the northwestern corner of the site. Activities within the Maintenance Shop include: oil changes, spray painting, cutting, drilling, welding of metal, cleaning, lubricating, and rebuilding of machinery. The shop contains solvents, fuels, lubricating oils, greases, and spray paints. Spills and leaks from maintenance activities could contribute oil and grease to stormwater if they exit the Maintenance Shop. Activities typically take place inside the building and are not likely to contact stormwater. The delivery/trailer drop off area (Area 1) is located north of the onsite infiltration pond. The potential pollutants from trailer activities include oil and grease and TSS.

### **3.4 CONTROL MEASURES (SCHEDULE A.7.b.vi, A.1)**

#### **3.4.1 NARRATIVE TECHNOLOGY-BASED EFFLUENT LIMITS (SCHEDULE A.1)**

##### **3.4.1.1 Minimize Exposure (Schedule A.1.A.i-vix)**

- Significant materials and activities are either located indoors, under cover, or outdoors with stormwater runoff directed to the stormwater system that flows to an onsite infiltration pond.
  - The following materials are stored outdoors and are not covered. Stormwater runoff in this area is directed to stormwater catch basins that drain into the onsite infiltration pond:
    1. Unprocessed/processed tire storage.
    2. Tire chips storage.
    3. Solid waste dumpsters.
    4. 1-ton super sack storage.
- The following materials are stored in bermed, graded, or curbed areas to divert stormwater away from these areas and prevent stormwater contamination:
  1. The tire processing area and shredding equipment are located on elevated concrete pads designed to collect process water and oils from the equipment. A catch basin in the containment area collects the runoff and routes it to an oil/water separator, then to a water reuse storage tank. Any excess water that is not reused goes to the existing sanitary sewer main line which runs along the south side of the property. The process water used in the shredder is contained and reused or disposed. No process water is discharged to the stormwater system.
  2. All incoming and stockpiled tires are stored on concrete in areas where the runoff is diverted to catch basins in Area 3 or Area 6. Catch basins in these areas lead to the onsite infiltration pond.
- Process water is routed to the city sanitary sewer.
- Stormwater runoff from the primary sources of significant material and potential pollutants are either contained within the Processing Building and pumped to the city sanitary system or treated in the onsite infiltration pond.
- A contracted hauler is used to remove all wire waste (approximately four loads) from the site throughout each working day.

- Hazardous substances are located in areas that are covered, or have covered secondary containment built into the structure such as the diesel AST located south of the Maintenance Shop. The following materials are located within secondary containment structures inside the Maintenance Shop and Processing Building:
  1. 55-gallon drum of used antifreeze.
  2. Two 250-gallon used oil totes.
- Runoff from the Processing Building roof drains into downspouts that drain to underground piping that connects to the onsite stormwater system. This includes a pipe that discharges into a manhole, ML-001.
- Vehicles/equipment awaiting maintenance are stored in or near the Maintenance Shop. Forklifts and other equipment are stored inside.
- Spill kits and absorbents are located throughout the site and are used as needed. Fluids are drained from equipment and vehicles prior to onsite storage or disposal.
- RB Recycling will regularly maintain its fleet of vehicles and equipment to keep them from leaking hazardous substances such as gasoline, diesel fuel, engine oil and anti-freeze onto the surface drainage area at the site.
- RB Recycling will regularly maintain equipment and machinery such as conveyors, wheel crushers, and shredders to keep them operating correctly.
- Cleaning operations are performed indoors or under cover.
- Spills or leaks from delivery vehicles are cleaned up promptly using absorbents or other effective methods to prevent discharge of pollutants. See Section 4.1 for spill and leak procedures. Procedures for reporting spills will also be discussed during the annual employee training.
- Contaminated water will be properly disposed offsite.
- The application of herbicides is forbidden to be used onsite. Pesticides are used by a contracted company if rodents become an issue.

#### **3.4.1.2 Oil and Grease (Schedule A.1.b)**

The site employs the following methods to eliminate or minimize oil and grease contamination of stormwater discharge.

- Oils, grease, and petroleum-based products are stored indoors.
- Diesel is stored in a 130-gallon double-walled AST located outside south of the Maintenance Shop.
- Oil spill clean-up kits are available throughout the site.

#### **3.4.1.3 Waste Chemicals and Material Disposal (Schedule A.1.c)**

Wastes are recycled or properly disposed of to eliminate or minimize exposure of pollutants to stormwater. Waste in areas draining to stormwater catch basins are contained undercover, or are in covered bins or dumpsters, where there is a potential for drainage of stormwater through the waste to prevent exposure of stormwater to these pollutants.

#### **3.4.1.4 Erosion and Sediment Control (Schedule A.1.d)**

Exposed areas are either paved or have gravel surfaces to minimize the erosion of soil at the site. An infiltration pond located near the northeast corner of the site collects most of the stormwater runoff from the site via catch basins and stormwater piping. The area immediately surrounding the pond is vegetated, followed by gravel.

#### **3.4.1.5 Debris Control (Schedule A.1.e)**

The site is monitored daily and debris is retrieved and disposed of whenever it is found. All catch basins are monitored and have a sump, and the infiltration pond serves as a settling pond to eliminate or minimize waste, garbage, and floatable debris in the stormwater discharge to keep debris from discharging offsite, and potentially to the Willamette River.

#### **3.4.1.6 Dust Generation and Vehicle Tracking of Industrial Materials (Schedule A.1.f)**

The site has paved roadways; therefore dust is generally not an issue. RB Recycling owns and operates a vacuum sweeper onsite. The impervious surfaces are swept daily and there is a daily log kept on the sweeping activities. All vehicles travel on these clean surfaces and do not track dust, debris, sediment, raw, final or waste materials offsite. The areas of the site without pavement have gravel that is maintained to prevent the transfer of dust during dry weather.

#### **3.4.1.7 Housekeeping (Schedule A.1.g)**

- RB Recycling performs vacuum sweeping of the pavement and areas draining to the storm sewer system daily and as needed. Vacuum sweeping includes the pervious pavement employee parking area. The parking area is located near the southeast corner outside of the operating area.
- Vegetation, large shrubs, and trees are pruned as needed.
- Leaves and debris are contained and removed as needed.
- Waste wire is removed from the site daily at approximately four loads per day.

- Rubber chip piles are managed and kept from being displaced on concrete.
- Spills in the Maintenance Shop are cleaned using dry absorbents.
- Surface runoff will be kept from coming in contact with scrap processing equipment. Equipment is elevated on concrete pads with catch basins diverted to sanitary. The areas around sanitary catch basins S1 and S2 are surrounded by concrete curbs.

### **3.5 ADDITIONAL TECHNOLOGY-BASED EFFLUENT LIMITS (E.N.1)**

In accordance with Sector N, RB Recycling has implemented the following BMPs.

#### **3.5.1 SCRAP AND WASTE RECYCLING FACILITIES (E.N.1.1)**

##### **3.5.1.1 Inbound Recyclable and Waste Material Control Program (E.N.1.1.1)**

- Suppliers of recyclable tires do not drain fluid from their vehicles, equipment engines, radiators, transmissions, oil filled transformers, individual containers or drums, and there are no residual fluids to be disposed of. No mercury switches are delivered to the RB Recycling facility.
- The criteria for acceptance of loads are clearly stated to suppliers and no putrescible waste or other waste materials are accepted at RB Recycling. Loads with dirt will be judged on a case-by-case basis. Tires that are accepted cannot have detectable odor.
- There are no scrap lead-acid batteries accepted at the RB Recycling facility.
- Training is provided for those personnel engaged in the inspection and acceptance of inbound recyclable tires.
- Used oil is stored in materially compatible and non-leaking containers within the Maintenance Shop and the Processing Building, and the oil is disposed of or recycled in accordance with the Resource Conservation and Recovery Act (RCRA) requirements.

##### **3.5.1.2 Scrap and Waste Material Stockpiles and Storage (Outdoor). Minimize contact of stormwater runoff with stockpiled materials, processed materials, and non-recyclable wastes. (E.N.1.1.2)**

- Tires delivered to the site to be used for recycling are temporarily stockpiled in the concrete area, Area 3. During heavy rainfall there is potential for the stormwater in Area 3 to drain to the stormwater catch basins SW4 and SW7 that drain into a manhole through underground piping that pumps the runoff to the onsite infiltration pond.
- Oversize tires are temporarily stockpiled onsite and regularly transported to an approved landfill. The remaining temporary stockpiles are located on pavement in areas that drain to catch basins that drain to the infiltration pond. Recyclable steel from shredded tires is conveyed into a 40-yard roll-off bin located on a concrete pad in Area 5. When the bin is

full, it is temporarily stockpiled undercover along the northern property fence line, and then transported offsite by a contract hauler.

### **3.5.1.3 Stockpiling of Turnings Exposed to Cutting Fluids (Outdoor Storage) (E.N.1.1.3)**

There is no stockpiling of turnings at the RB Recycling facility.

### **3.5.1.4 Scrap Waste Material Stockpiles and Storage (Covered or Indoor Storage) (E.N.1.1.4)**

Some tire chips from shredded tires are stockpiled in the concrete paved area (Area 3) that drains to catch basins that drain to the infiltration pond. Residual liquids or particulate matter from the materials stored indoors do not come in contact with stormwater surface runoff. The following control measures are active at the site:

- Good housekeeping measures listed in Section 3.4.1.7.
- No residual liquids originating from recyclable containers or mercury switches exist at the site.
- Some oils, grease, and petroleum-based products are stored indoors in the Processing Building and Maintenance Shop in areas without floor drains.
- Oil spill clean-up kits are located throughout the site, see Figure 2.

### **3.5.1.5 Scrap and Recyclable Waste Processing Areas (E.N.1.1.5)**

- To the extent possible, RB Recycling minimizes stormwater surface runoff from contacting scrap processing equipment, such as conveyors and shredders.
- The preventative maintenance program is followed per Section 4.2.
- To the extent possible, RB Recycling minimizes the particulate matter and residual fluids at the RB Recycling facility.
- The criteria for acceptance of loads are stated clearly for suppliers and no putrescible waste will be accepted. Loads with dirt will be judged on a case-by-case basis. Tires cannot have a detectable odor.
- Equipment is regularly inspected for spills or leaks and malfunctioning, worn, or corroded parts or equipment.
- Dry-absorbents or other cleanup practices are used to collect and dispose of or recycle spilled or leaking fluids from conveying or shredding equipment.
- Stormwater runoff coming in contact with processing equipment in Area 3 is conveyed to two sanitary catch basins, S1 and S2, which are connected to an oil/water separator and

water reuse tank. Any excess water that is not reused goes to the existing sanitary sewer main line which runs along the south side of the property. The process water used in the shredder is contained and is also not part of the storm sewer system.

#### **3.5.1.6 Scrap Lead-Acid Battery Program (E.N.1.1.6)**

There are no scrap lead-acid batteries at the RB Recycling facility.

#### **3.5.1.7 Spill Prevention and Response Procedures (E.N.1.1.7)**

See Section 6.8.

#### **3.5.1.8 Supplier Notification Program (E.N.1.1.8)**

The criteria for acceptance of loads are clear, and no putrescible waste or other waste materials will be accepted. Loads with dirt will be judged on a case-by-case basis. Tires to be accepted cannot have a detectable odor. This criterion is communicated to the suppliers.

### **3.5.2 WASTE RECYCLING FACILITIES (LIQUID RECYCLABLE MATERIALS) (E.N.1.2)**

#### **3.5.2.1 Waste Material Storage (Indoor) (E.N.1.2.1)**

Procedures at RB Recycling include storage of used oil in materially compatible and non-leaking containers within the Maintenance Shop and inside the northwest corner of the Processing Building. Used oil is disposed of or recycled in accordance with the RCRA requirements.

#### **3.5.2.2 Waste Material Storage (Outdoor) (E.N.1.2.2)**

There are no liquid recyclable materials stored outdoors at the RB Recycling facility.

#### **3.5.2.3 Trucks and Rail Car Waste Transfer Areas (E.N.1.2.3)**

RB Recycling minimizes pollutants in discharges from truck loading and unloading areas.

- Recycled tires are unloaded in the concrete storage area in Area 3. There is potential for the stormwater in Area 3 to drain to stormwater catch basins SW4 and SW7 that drain into a manhole through underground piping that pumps the stormwater runoff to the onsite infiltration pond.
- Recyclable steel from shredded tires is conveyed into a 40-yard roll off box on a concrete pad located in Area 5. When full, it is temporarily stockpiled undercover along the northern property fence line, and then transported offsite by a contract hauler.



### **3.5.3 RECYCLING FACILITIES (SOURCE-SEPARATED MATERIALS) (E.N.1.3)**

#### **3.5.3.1 Inbound Recyclable Material Control (E.N.1.3.1)**

RB Recycling minimizes the chance of accepting non-recyclables (e.g., hazardous materials) that could be a significant source of pollutants by conducting inspections of inbound materials.

- Information has been provided to the suppliers to inform them about acceptable and non-acceptable materials.
- Drivers responsible for pickup of recycled material are trained per Section 4.4.
- Non-recyclable materials, wastes, or household hazardous wastes are rejected.
- The criteria for acceptance of loads are stated clearly for suppliers and no putrescible waste or other waste materials will be accepted. Loads with dirt will be judged on a case-by-case basis. Tires to be accepted cannot have a detectable odor.

#### **3.5.3.2 Outdoor Storage. Minimize exposure of recyclables to precipitation and runoff (E.N.1.3.2)**

RB Recycling uses good housekeeping measures to prevent accumulation of particulate matter and fluids, particularly in high traffic areas.

- Tires used for recycling are delivered and temporarily stockpiled in the concrete storage area, Area 3. There is potential for the stormwater in Area 3 to drain to stormwater catch basins SW4 and SW7 that drain into a manhole through underground piping that pumps the stormwater runoff to the onsite infiltration pond. Per the Tier II Corrective Actions, catch basins SW5 and SW7 will be improved with new filters and filter material inserts to reduce particulates and metals.
- Recyclable steel from shredded tires is conveyed into a 40-yard roll-off bin on a concrete pad located in Area 5. When full it is temporarily stockpiled undercover along the northern property fence line, and then transported offsite by a contract hauler.
- Covers are provided over dumpsters located along the northern property boundary, north of Area 6.

#### **3.5.3.3 Indoor Storage and Material Processing (E.N.1.3.3)**

RB Recycling minimizes the release of pollutants from indoor storage and processing areas.

- Procedures are established to ensure that liquid wastes, including used oil and antifreeze, are stored inside the Maintenance Shop and in the northwest corner of the Processing Building in materially compatible and non-leaking containers and are properly disposed of or recycled.

- There is proper and prompt disposal or recycling of non-usable materials on a regular basis.
- All flammable materials are stored in properly labeled flammable cabinets.

#### **3.5.3.4 Vehicle and Equipment Maintenance (E.N.1.3.4)**

- Vehicle and equipment wash water is prohibited from discharging to the storm sewer system.
- Maintenance of vehicles is performed in the Maintenance Shop and the outdoor equipment is primarily stored in the concrete storage area where the runoff is discharged to the city sanitary system.
- Procedures are established so that liquid wastes, including used oil and antifreeze are stored in the Maintenance Shop and inside the northwest corner of the Processing Building in materially compatible and non-leaking containers and are properly disposed of or recycled.

### **3.6 IMPERVIOUS AREA (SCHEDULE A.7.b.viii)**

The impervious areas are shown on Figure 2. The impervious areas within the processing area include concrete, asphalt, and equipment. Stormwater runoff coming in contact with processing equipment in Area 3 is conveyed to two sanitary catch basins, S1 and S2, which are connected to an oil/water separator and water reuse tank. The runoff from the baghouse concrete pad and the tire wire concrete pad drain to S4 and S3 respectively. Sanitary catch basins are conveyed to an oil/water separator and then to a water reuse tank. Runoff from other spaces in the processing area drains to stormwater catch basins SW4, SW5, SW6 and SW7 that discharge to a manhole that pumps the stormwater to the onsite infiltration pond.

As stated previously, the exterior shredding equipment is positioned on elevated concrete pads designed to collect process water and oils from the equipment. Two sanitary catch basins (S1 and S2) in the containment area collect the runoff and route it to an oil/water separator, then to a water reuse storage tank. Any excess water that is not reused goes to the existing sanitary sewer and is not part of the storm sewer system.

As updated by the Tier II data completed in February 2020, the total area of the drainage basin to ML-001 on the Site is approximately 234,000 square feet, and the total impervious area is estimated to be approximately 177,000 square feet.

### **3.7 PERVIOUS AREA**

Stormwater in the gravel area, Area 2, infiltrates into the ground.

The employee parking lot is paved with pervious asphalt. The employee parking lot is approximately 8,900 square feet and located outside of the operating area near the southeast corner of the site. No storage or facility operations occur in this area. The intent of the permeable pavement is for stormwater infiltration. During heavy rainfall events, water may flow to a low point

in the parking lot. RB Recycling is currently enhancing and evaluating the effectiveness of the pervious pavement. This area was cleaned by an outside contractor via pressure washer and vacuum truck. An asphalt berm was installed in May 2019 across the east driveway in order to eliminate discharge of stormwater from the parking area. The berm will also minimize or prevent stormwater run on from the public street area.

### **3.8 RECEIVING WATER(S) (SCHEDULE A.7.b.ix)**

The stormwater infiltration pond is vegetated and sized to detain a 10-year, 24-hour storm event. During a 10-year storm event or greater the stormwater in the infiltration pond will overflow into a catch basin, and then be conveyed to a private outfall. The private outfall conveys the stormwater to an existing outlet in a slough, and ultimately discharges into the Willamette River.

Stormwater samples for 2013-2014 were collected during storm events ranging from 0.22 inches to 1.28 inches (24-hour totals). Based on these measurements, a storm event of at least 0.20 inches (24-hour total) is assumed to be sufficient for discharge from the existing stormwater infiltration pond.

### **3.9 MONITORING LOCATIONS (SCHEDULE A.7.b.x)**

The following monitoring location (ML) is shown on Figure 2.

- **ML-001:** ML-001 is located approximately 45 feet north of N. Burgard Way and approximately 90 feet east of the existing warehouse building. After the stormwater leaves the monitoring manhole it flows through a storm sewer pipe that conveys the runoff to an existing outlet in a slough, then discharges to the Willamette River. When there is a 10-year storm event or greater, the stormwater runoff collected in the retention pond overflows into a catch basin that connects via underground piping to the monitoring manhole. A separate pipe that appears to lead from roof drains on the Process Building also discharges into this manhole monitoring location.

Runoff that is conveyed to the city sanitary is not sampled.

Berms were installed in the southeast corner of the site to deter stormwater from discharging from this area of the site. RB Recycling will monitor this area including the front gate driveway and the employee parking lot during rainfall events to confirm there is no stormwater discharge.

## **4. PROCEDURES AND SCHEDULES (SCHEDULE A.7.c)**

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### **4.1 SPILL PREVENTION AND RESPONSE PROCEDURE (SCHEDULE A.1.h & A.7.c.i)**

Spill Prevention measures are exercised when handling substances that can contaminate stormwater runoff. Caution is taken when handling substances that can contaminate stormwater. If there is a spill the following procedures are followed:

- Procedures include properly disposing or recycling liquid wastes, including used oil. The liquid wastes are stored in the Maintenance Shop and northwest corner of Area 4 in materially compatible and non-leaking containers.
- Containers are plainly labeled (e.g., "Used Oil," etc.).
- Unused oils and fluids will be stored in properly marked containers within a designated storage area inside the northwest corner of the Processing Building or inside the Maintenance Shop.
- Used oils are stored in properly labeled containers located in the Maintenance Shop and inside the northwest corner of the Processing Building. Storage of such materials is minimized by prompt, proper disposal of non-usable materials.
- Flammable materials are stored in properly labeled flammable cabinets.
- Most petroleum products used in operations are stored indoors in the Maintenance Shop and Processing Building. Diesel is stored in a 130-gallon double-walled AST located south of the Maintenance Shop.
- Used oil, oil filters, and antifreeze are stored in above ground tanks and drums in the Maintenance Shop, and the northwest corner of the Processing Building and collected for recycling by an outside vendor on a regular basis.
- Equipment or vehicle leaks are addressed upon discovery and an equipment repair sheet is filled out for further inspection by maintenance staff.
- Spill kits are located near spill-prone operations and refreshed as needed and contain one or more of the following:
  1. Absorbent pads
  2. Absorbent booms
  3. Floor dry
  4. Drain covers

- 
- Drain/Catch basin covers are located with each outdoor spill kit.
  - A drain/catch basin cover is located with the spill kit near the 130-gallon diesel AST located in the northwest corner of the site. The cover will be placed over the nearby catch basin during fueling operations.
  -
- Employees are trained on spill control and cleanup procedures annually.
- Releases of pollutants will be corrected immediately.
- Major suppliers are notified which scrap materials will not be accepted at the facility or will be accepted only under certain conditions.
- Pond emergency shut-off valve will be tested monthly and will be documented on the Monthly Inspection Checklist.

For each "Spill Event", a record will be maintained and it will provide the following detail:

- Date and time of the spill event.
- Navigable waters or other environmental media potentially polluted.
- Cause of the event to include a failure analysis of the system or operations procedures involved.
- Corrective actions and/ or countermeasures taken:
  - Procedural changes, if any.
  - Equipment repairs and/or replacement, in any.
  - Equipment added, if any.
  - Any additional preventive measures taken to minimize recurrence of the event.

An Emergency Action Plan is maintained onsite in the assembly area, with the names, addresses, and telephone numbers of RB Recycling personnel. The list also includes telephone numbers of the Oregon Emergency Management Division (800-452-0311) and the City of Portland (503-823-7180). The RB Recycling personnel are responsible for the clean-up of all petroleum product spills that happen within the RB Recycling facility, and they will implement the appropriate spill response actions in order to stop the flow of petroleum products that may enter the stormwater drainage system. The city of Portland will be contacted if a spill enters the city stormwater system. All spills that enter the stormwater system, regardless of the amount of the spill, will be reported to Oregon Emergency Response Systems (800-452-0311) and NRC Environmental Services, Inc. (503-283-1150).

#### **4.1.1 PERSONS RESPONSIBLE FOR ONSITE MANAGEMENT OF MATERIALS (SCHEDULE A.7.c.i)**

The site's significant materials and corresponding manager is Dave Adams (503-407-4965).

#### **4.2 PREVENTATIVE MAINTENANCE (SCHEDULE A.1.i & A.7.c.ii)**

The preventive maintenance program at the site includes:

- Containers with significant materials in the Maintenance Shop and inside the northwest corner of the Processing Building are monitored daily.
- All equipment containing oil and petroleum based products are inspected at the start of each shift, as part of the daily inspection if they are going to be used during that shift.
- Monthly inspections of stormwater control measures, structures, catch basins, and the infiltration pond are performed at the site. The Monthly Inspection Checklist and Visual Monitoring Form is provided in Appendix A.
- Drain socks and catch basin filters are replaced on a visual basis. If after a monthly inspection, it was noted that a drain sock or filter needs to be replaced, it will be replaced. Examples for why a catch basin filter may need to be replaced include if there is excess buildup of rubber crumb materials in the filter, or if the filter appears worn or damaged. The new filters in catch basins SW5 and SW7 will be visually inspected as part of the monthly inspections. When accumulation is observed in the filter baskets, when and the media is close to saturation, RB Recycling will remove and wash the exchange media for reuse. According to research by Gullywasher, this new media in can be washed and reused several times before replacing.
- Catch basins and the pump vault are cleaned out annually and as needed.
- Used oil and filters are stored in containers in the Maintenance Shop and inside the northwest corner of the Processing Building.
- Pavement is vacuum swept daily. Smaller areas are swept by hand as needed. Sweeping events are documented on a log sheet that is maintained onsite.
- Suppliers of recyclable tires are educated on maintaining their vehicles prior to delivery to RB Recycling.
- Pest control measures will be taken when rodents and insects are found.

#### **4.3 OPERATION AND MAINTENANCE PLAN (SCHEDULE A.7.c.iii)**

The facility maintains the stormwater system including the oil/water separator and infiltration pond on an on-going and as needed basis. There are no "active treatment systems" as defined in section A.7.c.iii.

#### **4.3.1 INFILTRATION POND OPERATION AND MAINTENANCE**

An Operation, Monitoring, and Maintenance (OMM) Plan is maintained for the existing infiltration pond (see Appendix C). The infiltration pond is designed to retain stormwater and allow particles to settle out of the water prior to the stormwater discharging. In general, the water infiltrates into the base of the vegetated pond, but during large stormwater events water may discharge from the pond through a catch basin at the end of the pond. This discharge drains to a privet outfall that conveys the stormwater to an existing outlet in a slough, and ultimately the stormwater is discharged into the Willamette River.

Stormwater from throughout the paved areas of the site is directed to the infiltration pond through a series of catch basins and underground piping. Water is first pumped into an open concrete vault that spills into a section of riprap prior to entering the first cell of the infiltration pond. The cells of the infiltration pond are separated by a series of concrete weirs for primary settling and sediment removal. The remainder of the infiltration pond is vegetated. Stormwater discharges through a catch basin located at the end of the vegetated portion of the infiltration pond when a sufficient storm event occurs. The first two sections of the stormwater infiltration pond are designated for collection and removal of fine particles and sediment that were observed to contribute to decreased infiltration and performance of the infiltration pond. Sediment in these sections is removed annually and as needed if excess sediment build-up is observed by RB Recycling. A measuring device such as the “Sludge Judge” is used to measure sediment in the initial pond cells. The collected sediment is disposed at Wasco County Landfill along with approved process waste that is already designated for disposal. Estimated volumes removed and observations of the removed material will be recorded on a Stormwater Infiltration Pond Sediment Removal Log, included in Appendix C of the OMM Plan.

As stated in the OMM Plan, the infiltration pond will be monitored by facility personnel in conjunction with the monthly comprehensive stormwater inspections required by the General Permit. The Monthly Inspection Checklist and Visual Monitoring Form is provided in Appendix A.

#### **4.4 EMPLOYEE EDUCATION (SCHEDULE A.1.j & A.7.c.iv)**

Awareness training for facility personnel responsible for stormwater pollution prevention including spill containment and cleanup at the RB Recycling facility are conducted by a RB Recycling representative or a qualified contractor. The representative is thoroughly familiar with this SWPCP, site controls and BMPs, and also with the requirements of the regulations under which it was prepared. Employee training instruction will include:

- Personnel engaged in the inspection and acceptance of inbound recyclable materials.
- Drivers responsible for pickup of recycled material.
- Events and response procedures encountered as well as steps to take in order to clean-up unexpected spills.
- Orientation for all employees occurs no later than 30 calendar days of hiring an employee who works in areas where stormwater is exposed to industrial activities or conducts duties related to the implementation of this SWPCP, and no later than 30 calendar days of change in duties for key personnel.

- Annual employee training on this SWPCP is conducted.
  - Implementing the controls and measures identified in this SWPCP, including the narrative technology based effluent limits in Section 3.3.1.
  - An explanation of the rules governing the NPDES permit.
- Conducting inspections and stormwater monitoring (if their duties involve this).
- Training for proper use of clean-up materials and spill response procedures.
- Good housekeeping practices are conducted to prevent stormwater pollution.
- Stormwater monitoring, inspection, reporting, and documentation requirements.
- How to report and respond to a spill.
  - Monitoring and documentation.
- Discussions of possible incidents and their appropriate responses.

All training sessions are documented on an Employee Training Record form. Completed forms are maintained in the RB Recycling training records.

#### **4.5 NON-STORMWATER DISCHARGE (SCHEDULE A.1.a.viii. and Condition 7.b.15)**

The following non-stormwater discharges are authorized by the General Permit:

- Discharge from fire-fighting activities.
- Fire hydrant flushings.
- Potable water, including water line flushings.
- Uncontaminated condensate from air conditioners, coolers and other compressors, and from outside storage of refrigerated gases and liquids.
- Irrigation drainage.
- Landscape watering, provided that all pesticides, herbicides, and fertilizer have been applied in accordance with manufacturer's instructions.
- Pavement wash waters where no detergents or hot water are used, no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed), and surfaces are swept before washing.
- Vehicle washing that does not use detergents or hot water unless the 1700-A NPDES permit is required for the discharge.
- Routine external building washdown that does not use detergents or hot water.



- Uncontaminated groundwater or spring water.
- Foundation or footing drains where flows are not contaminated with process materials.
- Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the site, but not intentional discharges from the cooling tower (e.g., “piped” cooling tower blowdown or drains).

In order to eliminate non-stormwater discharges not authorized by the General Permit, RB Recycling will inspect the site for signs of non-authorized, non-stormwater discharges during the monthly site inspections. If any are identified, RB Recycling will take appropriate measures to both locate the source and eliminate the discharge.

## **5. MONITORING REQUIREMENTS**

---

### **5.1 POLLUTANT PARAMETERS (SCHEDULE B.1)**

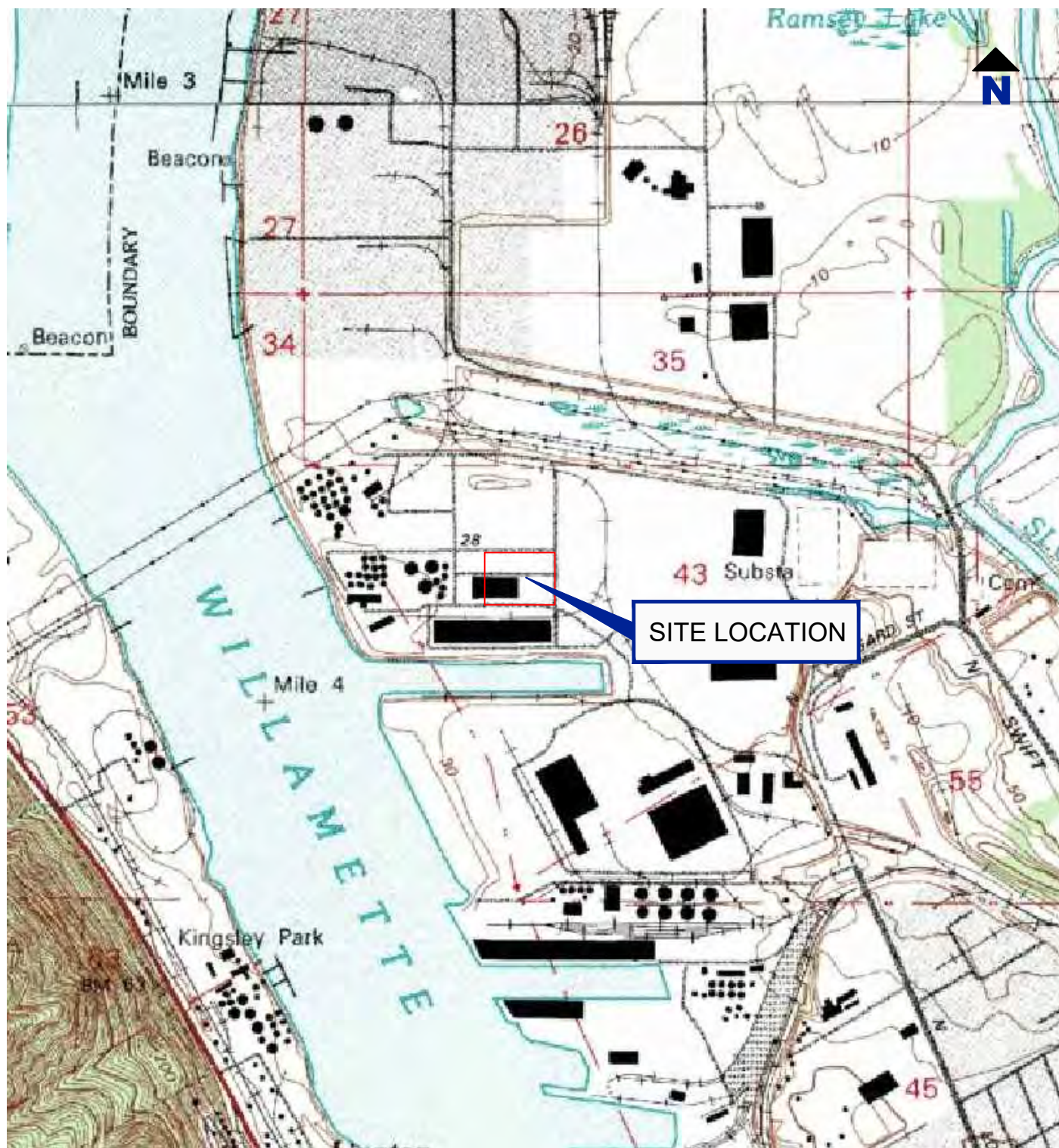
#### **5.1.1 BENCHMARKS (SCHEDULE A.9 AND B.1.a)**

Benchmarks and reference concentrations for impairment pollutants are guideline concentrations, not limitations; a benchmark or reference concentration exceedance, therefore, is not a permit violation. They are designed to assist the facility in determining whether its site controls are effectively reducing pollutant concentrations in stormwater discharged from the site. The statewide and sector specific benchmarks applied to RB Recycling are located in the issued permit assignment letter. The site will perform benchmark monitoring at stormwater monitoring location ML-001 for the parameters and at the frequency identified in the general permit.

## **FIGURES**

**Figure 1 – Site Location Map (A.7.b.i.1)**

**Figure 2 – Site Plan (A.7.b.i. 2 through 18)**



REFERENCED FROM : MYTOPO MAP PASS (MAPCARD) -  
LINNTON, OR, T2N R1W, SECTION 35, 1995

0 0.1 0.2 0.4 0.6 MILES



ULTIMATE RB, INC., D.B.A. RB RECYCLING  
9945 N. BURGARD WAY  
PORTLAND, OREGON

Report

STORMWATER POLLUTION CONTROL PLAN

Drawing

SITE LOCATION

Date February 11, 2020

Scale AS SHOWN

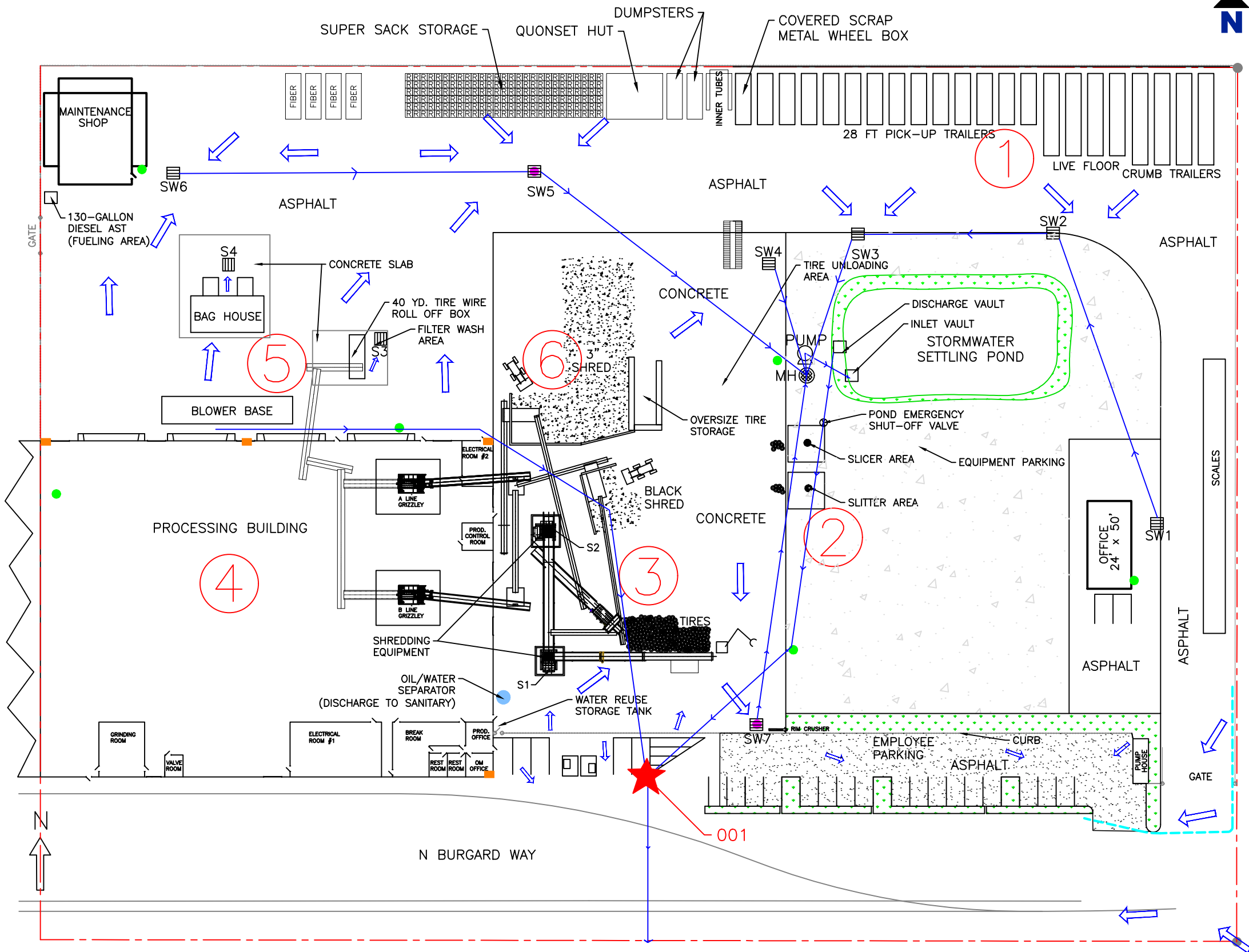
Fig. No.

File Name SWPCP 2020 Figures

Project No. 108.01315.00002

1

Last Saved: February 11, 2020 10:01:11 AM by hkeane Drawing path: N:\Portland\Projects\RB Recycling\Burgard Way\SWPCP\SWPCP\_Updated Feb. 2020\Figures\SWPCP 2020 Figures.dwg



NOTES

SANITARY CATCH BASINS S1 AND S2 ARE CURBED.  
ALL AREAS ARE PAVED UNLESS OTHERWISE NOTED.  
SCALE IS APPROXIMATE.  
AREA OF THE SITE IS APPROXIMATELY 6.1 ACRES.

LEGEND

- SITE BOUNDARY/ML-001 DRAINAGE AREA
  - STORMWATER PIPING
  - MH● MANHOLE
  - PUMP STORMWATER PUMP
  - VEGETATION
  - ★ MONITORING LOCATION (ML-001)
  - 001 DISCHARGE LOCATION
  - SW6 STORMWATER CATCH BASIN
  - S3 SANITARY SEWER CATCH BASIN
  - ← STORMWATER SURFACE FLOW DIRECTION
  - GRAVEL
  - SPILL KIT LOCATIONS (CONTAINING ABSORBENT PADS AND BOOMS, FLOOR DRY, AND DRAIN COVERS)
  - OIL/WATER SEPARATOR
  - DOWNSPOUT
  - ASPHALT BERM
  - PERVIOUS PAVEMENT
  - CATCH BASIN FILTERS
- AREAS:
- 1 - DELIVERY/TRAILER DROP OFF
  - 2 - GRAVEL AREA
  - 3 - TIPPING/TIRE PILE
  - 4 - INTERIOR REFINING/PROCESSING
  - 5 - BAG HOUSE DUST COLLECTION
  - 6 - FEED STOCK CHIPS

ULTIMATE RB, INC., D.B.A. RB RECYCLING  
9945 N. BURGARD WAY  
PORTLAND, OREGON

Report

STORMWATER POLLUTION CONTROL PLAN

Drawing

SITE PLAN

Date February 11, 2020 Scale AS SHOWN Fig. No. 2

File Name SWPCP 2020 Figures Project No. 108.01315.00002



## **APPENDIX A**

### **MONTHLY INSPECTION CHECKLIST AND VISUAL MONITORING FORM**



**Monthly Inspection Checklist and Visual Monitoring Form**  
**Stormwater Pollution Control Plan**  
**Ultimate RB, Inc., D.B.A. RB Recycling**

This monthly inspection checklist and visual monitoring form is completed monthly by RB Recycling to assist in conducting monthly inspections and sampling requirements as required by the 1200-Z General Permit.

**Inspector:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Time of Inspection:** \_\_\_\_\_ **Weather:** \_\_\_\_\_

<b>Area 1 – Delivery/Trailer Drop Off</b>			
<b>Includes catch basins SW-2, SW-3</b>			
Was any material, residue, or trash in contact with stormwater?	No	Yes	Comment #:
Was there any leaks or spills from equipment, drums, tanks or other containers?	No	Yes	Comment #:
Was any offsite tracking of waste materials or sediments observed?	No	Yes	Comment #:
Was there any evidence of tracking or blowing of raw, final, or waste materials?	No	Yes	Comment #:
Was there any evidence of or the potential for pollutants entering the drainage system?	No	Yes	Comment #:
Any sediment buildup in the catch basins or catch basin filters?	No	Yes	Comment #:
<b>Area 2 – Unsorted Unloading Area</b>			
<b>Includes catch basin SW-1</b>			
Was any material, residue, or trash in contact with stormwater?	No	Yes	Comment #:
Was there any leaks or spills from equipment, drums, tanks or other containers?	No	Yes	Comment #:
Was any offsite tracking of waste materials or sediments observed?	No	Yes	Comment #:
Was there any evidence of tracking or blowing of raw, final, or waste materials?	No	Yes	Comment #:
Was there any evidence of or the potential for pollutants entering the drainage system?	No	Yes	Comment #:
Any sediment buildup in the catch basins or catch basin filters?	No	Yes	Comment #:
<b>Area 3 – Tire Processing Area</b>			
<b>Includes catch basin SW-7, SW-9</b>			
Was any material, residue, or trash in contact with stormwater?	No	Yes	Comment #:
Was there any leaks or spills from equipment, drums, tanks or other containers?	No	Yes	Comment #:
Was any offsite tracking of waste materials or sediments observed?	No	Yes	Comment #:

Was there any evidence of tracking or blowing of raw, final, or waste materials?	No	Yes	Comment #:
Was there any evidence of or the potential for pollutants entering the drainage system?	No	Yes	Comment #:
Any sediment buildup in the catch basins or catch basin filters?	No	Yes	Comment #:
<b>Area 5 –Refining/Processing</b>			
<b>Includes catch basin SW-6</b>			
Was any material, residue, or trash in contact with stormwater?	No	Yes	Comment #:
Was there any leaks or spills form equipment, drums, tanks or other containers?	No	Yes	Comment #:
Was any offsite tracking of waste materials or sediments observed?	No	Yes	Comment #:
Was there any evidence of tracking or blowing of raw, final, or waste materials?	No	Yes	Comment #:
Was there any evidence of or the potential for pollutants entering the drainage system?	No	Yes	Comment #:
Any sediment buildup in the catch basins or catch basin filters?	No	Yes	Comment #:
<b>Area 6 – Chips Ready for Delivery</b>			
<b>Includes catch basin SW-5</b>			
Was any material, residue, or trash in contact with stormwater?	No	Yes	Comment #:
Was there any leaks or spills form equipment, drums, tanks or other containers?	No	Yes	Comment #:
Was any offsite tracking of waste materials or sediments observed?	No	Yes	Comment #:
Was there any evidence of tracking or blowing of raw, final, or waste materials?	No	Yes	Comment #:
Was there any evidence of or the potential for pollutants entering the drainage system?	No	Yes	Comment #:
Any sediment buildup in the catch basins or catch basin filters?	No	Yes	Comment #:



Infiltration Pond			
Is concrete inlet vault free of debris/litter/sediment?	No	Yes	Comment #:
Is infiltration pond free of debris or litter?	No	Yes	Comment #:
Is there accumulation of sediment that prevents first sections from infiltration?	No	Yes	Comment #:
Is native vegetation in good condition?	No	Yes	Comment #:
Is there invasive plants present in the infiltration pond (i.e. reed canary grass and blackberry plants)?	No	Yes	Comment #:
Is discharge vault free of debris/litter/sediment?	No	Yes	Comment #:
Is there any oil or oil sheen* visible anywhere in the infiltration pond?	No	Yes	Comment #:

Please identify any recommended actions or any corrective actions that were taken as a result of the monthly inspection:
1.
2.
3.
4.
5.
6.

Stormwater Visual Inspections							
Parameter	Flow (Y or N)	Floating, Suspended, or Settleable Solids (Y or N)	Foam (Y or N)	Oil Sheen* (Y or N)	Discoloration (Y or N)	Odor (Y or N)	Other Indicators of Stormwater Pollution (Y or N)
ML-001							
*Oil sheen is frequently seen as a multi-colored or rainbow effect on the surface of the water or on a wet surface. Water with oil sheen may also have an odor of oil or solvent.							
Was there any evidence of pollutants discharging to receiving waters at ML-001?	No	Yes	Comment #:				

Stormwater Sampling	
1.)	Were stormwater samples collected this month? <input type="checkbox"/> Yes <input type="checkbox"/> No
Check this box if there was no discharge occurring this month.	
2.)	If so, you are done with the inspection form (please sign below) <input type="checkbox"/>
3.)	If samples were collected, complete the information below:
	Date Sample Collected: _____
	Time Sample Collected: _____
	Check this box if the sample was collected within the first 12 hours of discharge: <input type="checkbox"/>
	If not, please provide an explanation of why the sample could not be collected:
4.)	Employee Collecting Sample:
<b>Inspector Certification:</b> "I certify that this report is true, accurate, and complete, to the best of my knowledge and belief."	
6.)	Signature of Inspector:

**APPENDIX B**

**SUMMARY OF PLAN REVISIONS**

## SUMMARY OF SWPCP CHANGES

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All SWPCP review and revisions are recorded in the following log and record of review:

### Log of Plan Review and Revisions

Date	Review or Revision	Description of Change or Result of Review
12/2017	Revision	Update original (2012) SWPCP per the new 1200-Z General Permit
3/2018	Revision	Revise Draft SWPCP with City of Portland comments per the 2/23/2018 stormwater inspection
4/2019	Revision	Revise Draft SWPCP with City of Portland comments per the 3/21/2019 stormwater inspection
2/2020	Revision	Revise Draft SWPCP with Tier II Corrective Actions

**APPENDIX C**

**OPERATIONS, MONITORING, AND MAINTENANCE PLAN -  
STORMWATER INFILTRATION POND**



global environmental solutions

Operations, Monitoring, and Maintenance Plan  
Stormwater Infiltration Pond

RB Recycling, Inc  
9945 N Burgard Way  
Portland, Oregon

SLR Ref: 108.01315.00001

March 2015



## **OPERATION, MONITORING, AND MAINTENANCE PLAN STORMWATER INFILTRATION POND**

**RB RECYCLING, INC  
9945 NORTH BURGARD WAY  
PORTLAND, OREGON**

This document has been prepared by SLR International Corporation. The material and data in this report were prepared under the supervision and direction of the undersigned.

A handwritten signature in blue ink, appearing to read "R. Scott Miller", written over a horizontal line.

R. Scott Miller, P.E.  
Managing Principal

A handwritten signature in black ink, appearing to read "Melanie Bocianowski", written over a horizontal line.

Melanie Bocianowski  
Senior Geologist

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## **FIGURES**

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FIGURE 2	Stormwater Infiltration Pond Detail

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APPENDIX A	NPDES Tier II Waiver Request and DEQ Acceptance Letter
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APPENDIX C	OMM Plan Inspection Forms
Appendix D	Landscaping Plan



# **1. INTRODUCTION**

---

SLR International Corporation (SLR) has prepared this Operation, Monitoring, and Maintenance (OMM) Plan on behalf of RB Recycling, Inc. for the existing stormwater infiltration pond at RB Recycling facility located at 9445 North Burgard Way in Portland, Oregon (Site).

A Tier II Waiver Application for copper and zinc was submitted to the City of Portland (City) by RB Recycling on December 30, 2014. This Tier II waiver was accepted by the City in a letter dated January 23, 2015. The Tier II Waiver request and acceptance was based on the volume reduction measures associated with the infiltration pond system. The City found that data and mass loading analyses along with the proposed volume reduction measures meets the Tier II Waiver requirements. In order for the stormwater infiltration pond to continue functioning properly, this OMM Plan has been prepared with the following objectives:

- Identify and implement BMPs to maintain the infiltration pond system
- Outline maintenance and inspection procedures for the infiltration pond to be completed by facility personnel
- Outline documentation and record keeping procedures

## 2. BACKGROUND

---

RB Recycling is a tire recycling facility located at 9945 N. Burgard Way in Portland, Oregon and consists of approximately 9.8 acres which is primarily asphalt pavement or buildings. Operations include an outside process yard, inside process equipment, dust collector, storage yard, trailer storage area, scale, and infiltration pond. A site plan is included as **Figure 1**.

This OMM Plan has been developed and certified for the following facility:

<b>Owner:</b>	Ultimate RB Inc.
<b>Facility Name:</b>	Ultimate RB Inc., DBA RB Recycling
<b>City and State:</b>	Portland, Oregon
<b>Facility Telephone Number:</b>	(503) 283-2261
<b>EHS Coordinator:</b>	Aubree Minten – (503)-583-0070

### 2.1 STORMWATER PERMIT

RB Recycling was issued a 1200-Z National Pollutant Discharge Elimination System (NPDES) permit effective July 1, 2012 through June 30, 2017. Requirements for the permit included collection of stormwater samples for the analytes listed in the permit and comparison to the listed benchmarks. Tier I reports were to be completed upon exceedance of the listed benchmarks to identify the potential source of the exceedance and proposed actions to address the exceedance. Discharge monitoring reports (DMRs) are submitted annually to the City to present the sampling results from the previous year. If the 2<sup>nd</sup> year geometric mean values exceed the listed statewide benchmark values, Tier II is triggered and corrective action is required. Corrective action includes hiring a licensed professional engineer to review the current SWPCP and revising the SWPCP to address the pollutants that exceed the benchmark(s). Instead of installing treatment, a facility may request a Tier II Waiver.

The 2<sup>nd</sup> year geometric mean values at RB Recycling for 2013-2014 exceeded the benchmark limits for copper and zinc at 0.034 mg/L and 0.162 mg/L, respectively.

The City conducted a stormwater inspection at the Site on November 6, 2014 (copy of inspection letter included in **Appendix A**). As part of the inspection results, the City recommended RB Recycling submit a Tier II Waiver Application. RB Recycling submitted the application with a memo presenting an evaluation of the projected volume reductions of zinc and copper in stormwater via the existing stormwater infiltration pond. The application prepared by SLR is presented in **Appendix B**.

Upon review of the Tier II Waiver request, the City found that data and mass loading analyses along with the proposed volume reduction measures presented in the memo and Tier II Waiver

Application met the requirements and the City issued a Tier II Waiver Acceptance letter to RB Recycling on January 23, 2015 (copy included in **Appendix A**).

Since this time RB Recycling has been issued a new permit effective August 1, 2017 through July 31, 2022.

## **2.2 STORMWATER MANAGEMENT**

Site stormwater runoff is conveyed through piping to the on-site infiltration pond. Due to some storage and Site operations being located outdoors, trace quantities of tire particles may enter the stormwater system and therefore a treatment facility/infiltration pond was constructed.

Stormwater runoff sheet flows over the paved areas to catch basins, and then is conveyed to a manhole through underground piping. The manhole has a pump that pumps the runoff to the infiltration pond that is designed to infiltrate 2 inches per hour. The infiltration pond is vegetated and sized to detain a 10-year 24 hour storm event. Storm events exceeding the 10-year event overflow into a catch basin and ultimately discharges off-site.

Stormwater samples for 2013-2014 were collected during storm events ranging from 0.22 inches to 1.28 inches (24 hours totals). Based on these measurements, a storm event of at least 0.20 inches (24 hour total) is assumed to be sufficient for discharge from the existing stormwater infiltration pond.

### **3. OPERATIONS, MONITORING, AND MAINTENANCE**

---

This section provides the OMM plan for the stormwater infiltration pond at the Site. **Figure 2** presents a layout and specifications of the stormwater infiltration pond.

#### **3.1 OPERATIONS**

The infiltration pond is designed to retain stormwater and allow particles to settle out of the water prior to the stormwater discharging. In general, the water infiltrates into the base of the vegetated pond, but during large stormwater events water may discharge from the pond through a catch basin at the end of the pond. This discharge drains to the City stormwater system located on Burgard Way.

Stormwater from throughout the paved areas of the Site are directed to the infiltration pond through a series of catch basins and underground piping. Water is first pumped into an open concrete vault that spills into a section of riprap prior to entering the first cell of the infiltration pond. The cells of the infiltration pond are separated by a series of concrete weirs for primary settling and sediment removal. The remainder of the infiltration pond is vegetated. Stormwater discharges through a catch basin located at the end of the vegetated portion of the infiltration pond when a sufficient storm event occurs.

#### **3.2 MONITORING**

The stormwater infiltration pond will be monitored by facility personnel as part of the monthly comprehensive stormwater inspections for the Site. Present conditions of the existing stormwater infiltration pond will be recorded on the monthly stormwater inspection, see Appendix A of the Stormwater Pollution and Control Plan (SWPCP).

#### **3.3 STORMWATER SAMPLING**

Stormwater samples will continue to be collected as per the requirements of the 1200-Z permit. Stormwater samples will be collected from the designated sampling point ML-001, located approximately 45 feet north of N Burgard Way and approximately 90 feet east of the existing warehouse building, in conjunction with rain events that produce a discharge from the existing stormwater infiltration pond.

Stormwater samples will be collected with an extendable collection vessel and distributed to laboratory-provided sampling containers with appropriate preservation and shipped/delivered to the analytical laboratory under chain-of-custody protocol.

### 3.4 SEDIMENT REMOVAL

The first two sections of the stormwater infiltration pond are designated for collection and removal of fine particles and sediment that were observed to contribute to decreased infiltration and performance of the infiltration pond (**Figure 2**).

Sediment in these sections will be removed as-needed with a modified mesh scoop and placed into 55-gallon drums pending disposal at Wasco Landfill along with approved process waste that is already designated for disposal. Estimated volumes removed and observations of the removed material will be recorded on a Stormwater Infiltration Pond Sediment Removal Log, included in **Appendix C**.

### 3.5 LANDSCAPING

Landscaping around the perimeter and within the infiltration pond is to be maintained per the original landscaping design (included as **Appendix D**) and/or to a condition that allows for sufficient operation as an infiltration pond. The only exception will be the area immediately adjacent to the first two sections of the infiltration pond that are designated for sediment removal (as described in Section 3.4), as shown on **Figure 2**.

## FIGURES

Figure 1: Site Plan

Figure 2: Stormwater Infiltration Pond Detail



# LEGEND

--- PROPERTY BOUNDARY

□ CATCH BASINS

□ EXISTING BUILDINGS

□ STORMWATER INFILTRATION POND

--- UNDERGROUND STORMWATER LINES

RB RECYCLING, INC  
9945 N BURGARD WAY  
PORTLAND, OREGON 97203

Report  
OPERATION, MONITORING, AND  
MAINTENANCE PLAN

Drawing  
SITE PLAN

Date MARCH 2015

Scale AS SHOWN

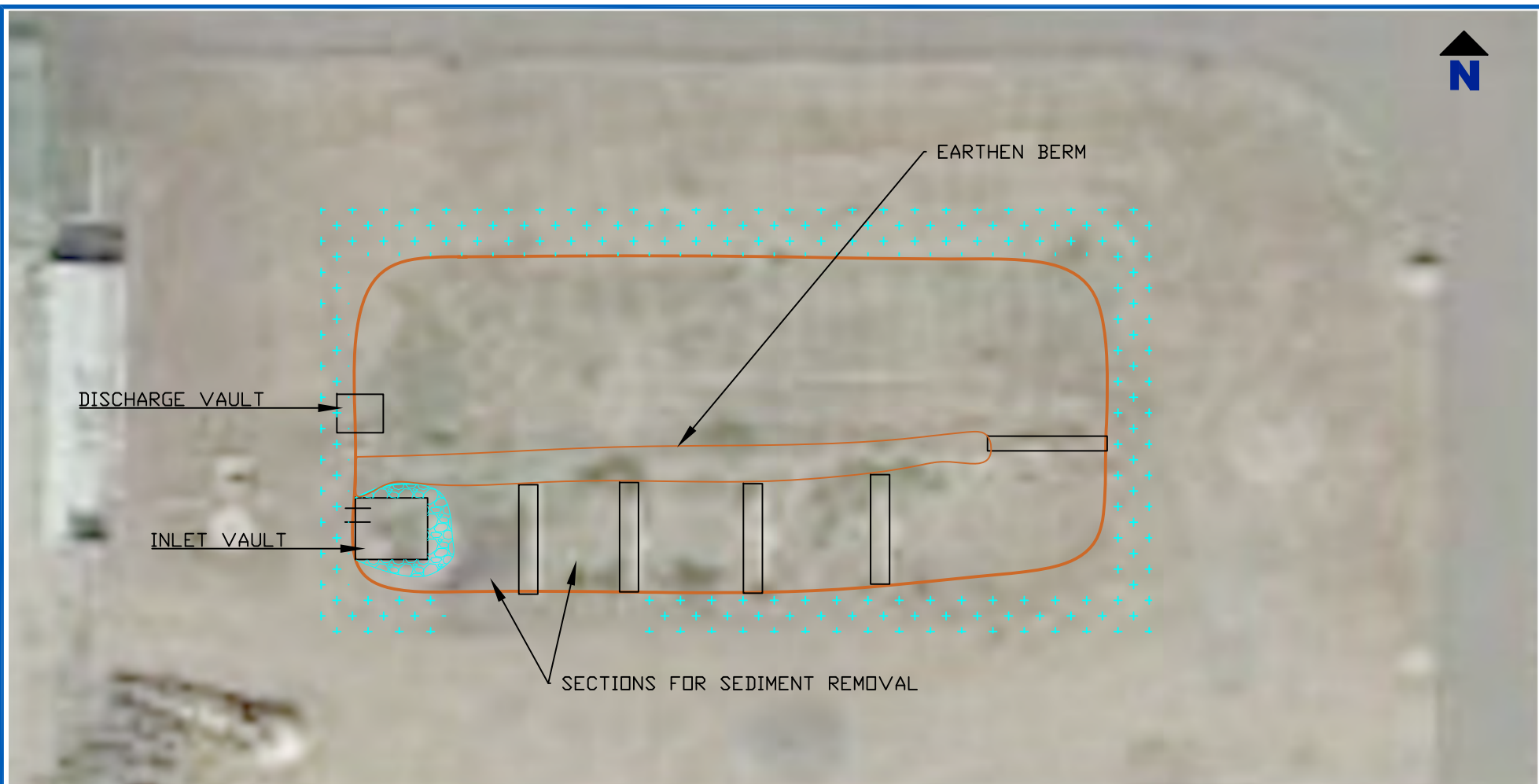
Fig. No.

File Name FIGURE\_012815-2

Project No. 108.01315.00001

1





LEGEND

--- PROPERTY BOUNDARY

CONCRETE WEIRS

STORMWATER INFILTRATION POND

RIPRAP



LANDSCAPING TO BE MAINTAINED



RB RECYCLING, INC  
9945 N BURGARD WAY  
PORTLAND, OREGON 97203

Report  
OPERATION, MONITORING, AND  
MAINTENANCE PLAN

Drawing  
SITE PLAN

Date MARCH 2015

Scale AS SHOWN

Fig. No.

File Name FIGURE\_012815-2

Project No. 108.01315.00001

2



## **APPENDIX A**

### **NPDES TIER II WAIVER REQUEST AND DEQ ACCEPTANCE LETTER**



# CITY OF PORTLAND ENVIRONMENTAL SERVICES



Water Pollution Control Laboratory

6543 N. Burlington Avenue, Bldg 217, Portland, Oregon 97203 ■ Nick Fish, Commissioner ■ Dean Marriott, Director

November 10, 2014

VEN# \_\_\_\_\_ APP# \_\_\_\_\_

INV. DT. \_\_\_\_\_ INV. # \_\_\_\_\_

Peter Daly  
RB Recycling Inc.  
9945 N Burgard Way  
Portland, OR 97203

NOV 18 2014

GL# \_\_\_\_\_ \$ \_\_\_\_\_

GL# \_\_\_\_\_ \$ \_\_\_\_\_

ENTRY \_\_\_\_\_ TTL \_\_\_\_\_

RE: Stormwater Inspection, 9945 N Burgard Way - DEQ File # 119308.

Dear Mr. Daly:

On November 6, 2014 the City of Portland inspected RB Recycling's facility, located at 9945 N. Burgard Way, to assess compliance with conditions contained in its 1200-Z general industrial stormwater discharge permit.

**Please note the following in order to protect stormwater quality:**

- Due to the infrequent site discharges noted during the last five years, the City recommends that you take a sample of the first discharge during the tow monitoring periods of July to December and of January to June. This will enhance your taking another sample of any discharge event that may occur after the first one.
- To help support taking of discharge samples in a timely manner, the City recommends that the Visual Observations of each and every discharge be made a high priority to fully document if the site does or does not have a discharge and to get a sample per the 'Permit Assignment Letter' to guide the parameters to be analyzed to stay in compliance with the permit requirements.
- Sediment and tire shreds were observed on the pavement surrounding the outside process areas on the east and north side of the building. The City recommends continuing the daily use of a vacuum powered sweeper, weekly cleaning of the site's catch basins and the monthly clean-out of the swale's first settling cell to control the levels of solids in the discharge flows.
- The City recommends that the replanting of sedges and reeds in the pond and swale bottoms be continued and that you review the operation of this treatment train with your consultant to improve the efficiency of the system while ensuring that infiltration still occurs in a timely manner.
- The City recommends that you work with the treatment swale and settling pond designer to submit a Tier II Waiver request based on the volume reduction measures associated with this treatment train. The Tier II Waiver request must include data to support the volume reduction and the mass load analysis. {See Permit Schedule A.12.d.ii for more information.}

# 2

RB Recycling  
November 13, 2014  
Inspection Letter  
Page 2 of 2

If you have any questions regarding this letter or need any additional assistance during this process please feel free to contact me at (503) 823-5537.

Sincerely,



Timothy P. Dean

Industrial Stormwater Program



# CITY OF PORTLAND ENVIRONMENTAL SERVICES



## Water Pollution Control Laboratory

6543 N Burlington Avenue, Bldg 217, Portland, Oregon 97203 • Nick Fish, Commissioner • James Hagerman, Interim Director

January 23, 2015

Peter Daly  
RB Recycling Inc.  
9945 N. Burgard Way  
Portland, OR 97203

RE: Tier II Requirements  
RB Recycling, Inc.  
File Number: 119308  
County: Multnomah

VEN# \_\_\_\_\_ APP# \_\_\_\_\_  
INV. DT. \_\_\_\_\_ INV. # \_\_\_\_\_

**JAN 28 2015**

GL# \_\_\_\_\_ \$ \_\_\_\_\_  
GL# \_\_\_\_\_ \$ \_\_\_\_\_  
ENTRY \_\_\_\_\_ TTE \_\_\_\_\_

Dear Mr. Daly:

RB Recycling Inc. was sent a letter on August 18, 2014 by the City of Portland (City) that outlined the Tier II Corrective Actions required for complying with the facility's industrial stormwater permit. RB Recycling responded on December 30, 2014 with a request for a "Tier II Waiver" as per Permit *Schedule A.12.d.ii*. Upon review of this request, the City finds that data and mass loading analyses along with the proposed volume reduction measures meets the requirements. The City has accepted RB Recycling's request for a "Tier II Waiver".

Please note the following to ensure compliance with the permit:

- Continue to monitor the outfall identified in the revised SWPCP and annually submit the Discharge Monitoring Report (DMR) to the City listing all of the monitoring results from the facility over the last rain year.
- Continue responding to benchmark exceedances via Tier I reports.

In addition the City recommends that RB Recycling:

- Determine if the loading reductions are meeting those anticipated through monitoring the infiltration rates as well as any discharge flows, and address any issues found to ensure the system is functioning properly.

If you have any questions or concerns please contact me at 503-823-5537.

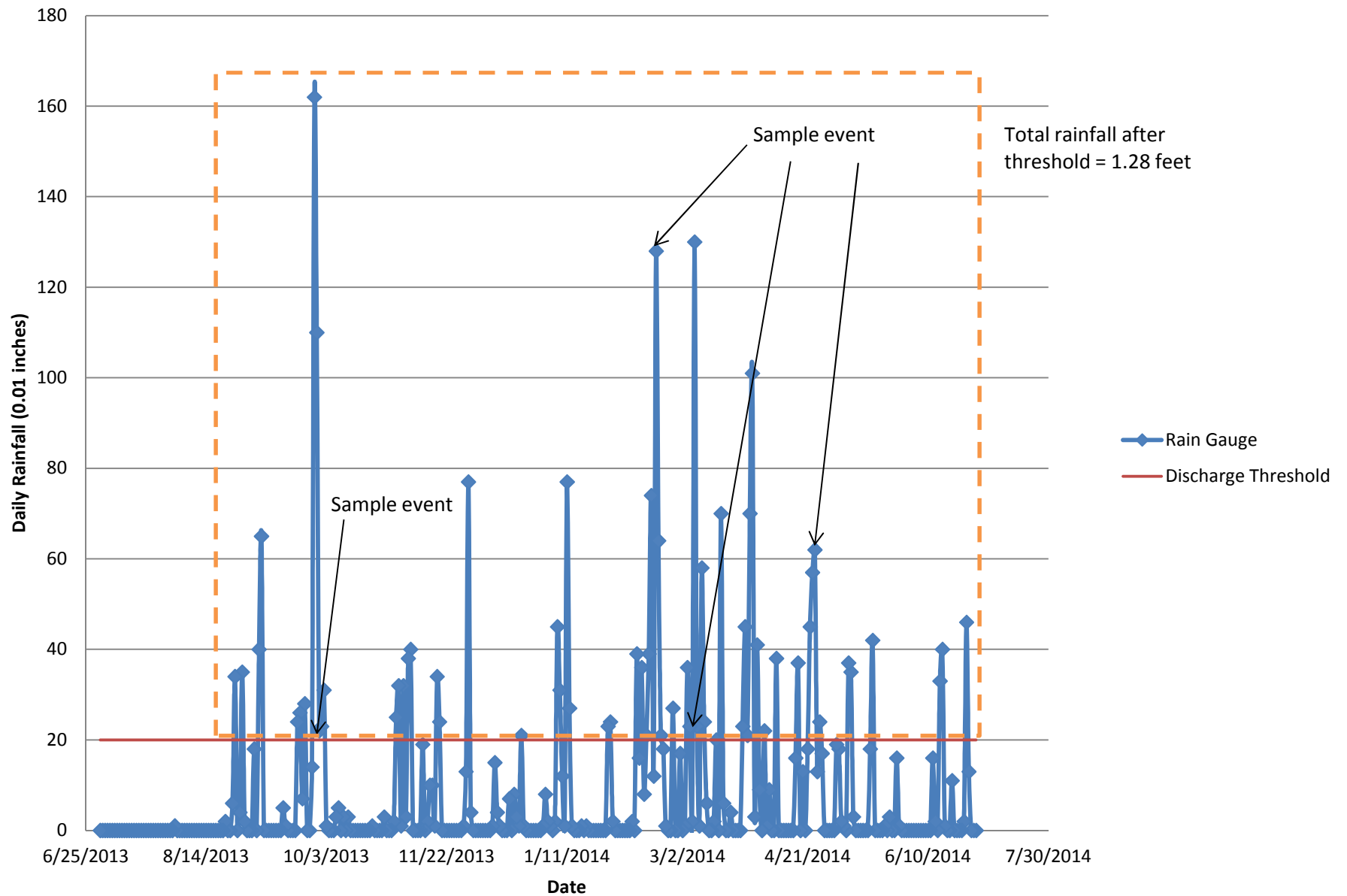
Sincerely,

Tim Dean  
Industrial Stormwater Program

## **APPENDIX B**

### **TIER II WAIVER REQUEST DATA**

# Graph 1: Rain Gauge Measurements July 2013 to June 2014





### Information Required for Tier II Waiver Application

If applying for a Tier II waiver based on projected volume reduction, please provide the information below *for each drainage basin on your site*. If no infiltration is proposed for a particular drainage basin, simply fill out the first four (bolded) entries in the Tier II Waiver Basin Table. Make additional copies if your site has more than three drainage basins. In addition, fill out the Tier II Waiver Summary Table.

#### Tier II Waiver Basin Table

	Basin name: Site		Basin name:		Basin name:	
	Value	Page number	Value	Page number	Value	Page number
<b>Area of drainage basin (ft<sup>2</sup>)</b>	337770					
<b>Impervious area (ft<sup>2</sup>)</b>	293375					
<b>Runoff coefficients (unitless)</b>	Asp - 0.9 Roof - 1.0 Perv - 0.5					
<b>Mass (with units) of pollutant discharged based on geometric mean (no infiltration)</b>	Zn: 4484758 mg Cu: 941246 mg					
Infiltration rate (gal/day)	UK					
Pond capacity, if applicable (gal)	77000					
Mass (with units) of pollutant discharged based on geometric mean (with assumed infiltration)	Zn: 1723871 mg Cu: 361800 mg					
Mass (with units) of pollutant discharged assuming concentration equal to benchmark (no infiltration)	Zn: 3322043 mg Cu: 553674 mg					
Approximate depth to groundwater	15-20'					

#### Tier II Waiver Summary Table (Combine entries from all basins)

	Value	Page number
Area of site (ft <sup>2</sup> )	337770	
Total impervious area (ft <sup>2</sup> )	293375	
Total mass (with units) of pollutant based on geometric mean (no infiltration)	Zn: 4484758 mg Cu: 941246 mg	
Total mass (with units) of pollutant based on geometric mean (with assumed infiltration)	Zn: 1723871 mg Cu: 361800 mg	
Total mass (with units) of pollutant assuming concentration equal to benchmark (no infiltration)	Zn: 3322043 mg Cu: 553674 mg	

## **APPENDIX C**

### **OMM PLAN INSPECTION FORMS**



Stormwater Infiltration Pond Inspection Checklist  
RB Recycling

Date of Inspection: \_\_\_\_\_

Name of Inspector: \_\_\_\_\_

Date of most recent inflow: \_\_\_\_\_

Date of most recent discharge: \_\_\_\_\_

Observation	Yes	No	NA	Notes
Is concrete inlet vault free of debris/litter/sediment?				
Is infiltration pond free of debris/litter/sediment?				
Is there accumulation of sediment that prevents first sections from infiltration?				
Is standing water in infiltration pond?				
Is vegetation in good condition?				
Is discharge vault free of debris/litter/sediment?				
Is there any oil or visible pollutant build-up anywhere in the infiltration pond?				
Is infiltration pond able to treat and infiltrate stormwater runoff in an efficient and effective manner as it is intended to do?				

Stormwater Infiltration Pond Sediment Removal Log  
RB Recycling

<b>Removal Date</b>				
<b>Section 1</b>				
Amount Removed				
Observations (color, odor, sheen, etc)				
<b>Section 2</b>				
Amount Removed				
Observations (color, odor, sheen, etc)				
<b>Section 3</b>				
Amount Removed				
Observations (color, odor, sheen, etc)				
<b>Disposal Date</b>				

NA indicates removal did not occur in the section

**APPENDIX D**

**LANDSCAPING PLAN**

SWALE BOTTOM PLANTING SCHEDULE

Item #	Swale Bottom	Planting Rate	MIX TYPES
1	Small Fruited Bull Rush	1' - 2' oc plugs	(500 each)
2	Slough Sedge	1' - 2' oc plugs	(500 each)
3	Spreading Rush	1' - 2' oc plugs	(1500 TOTAL)

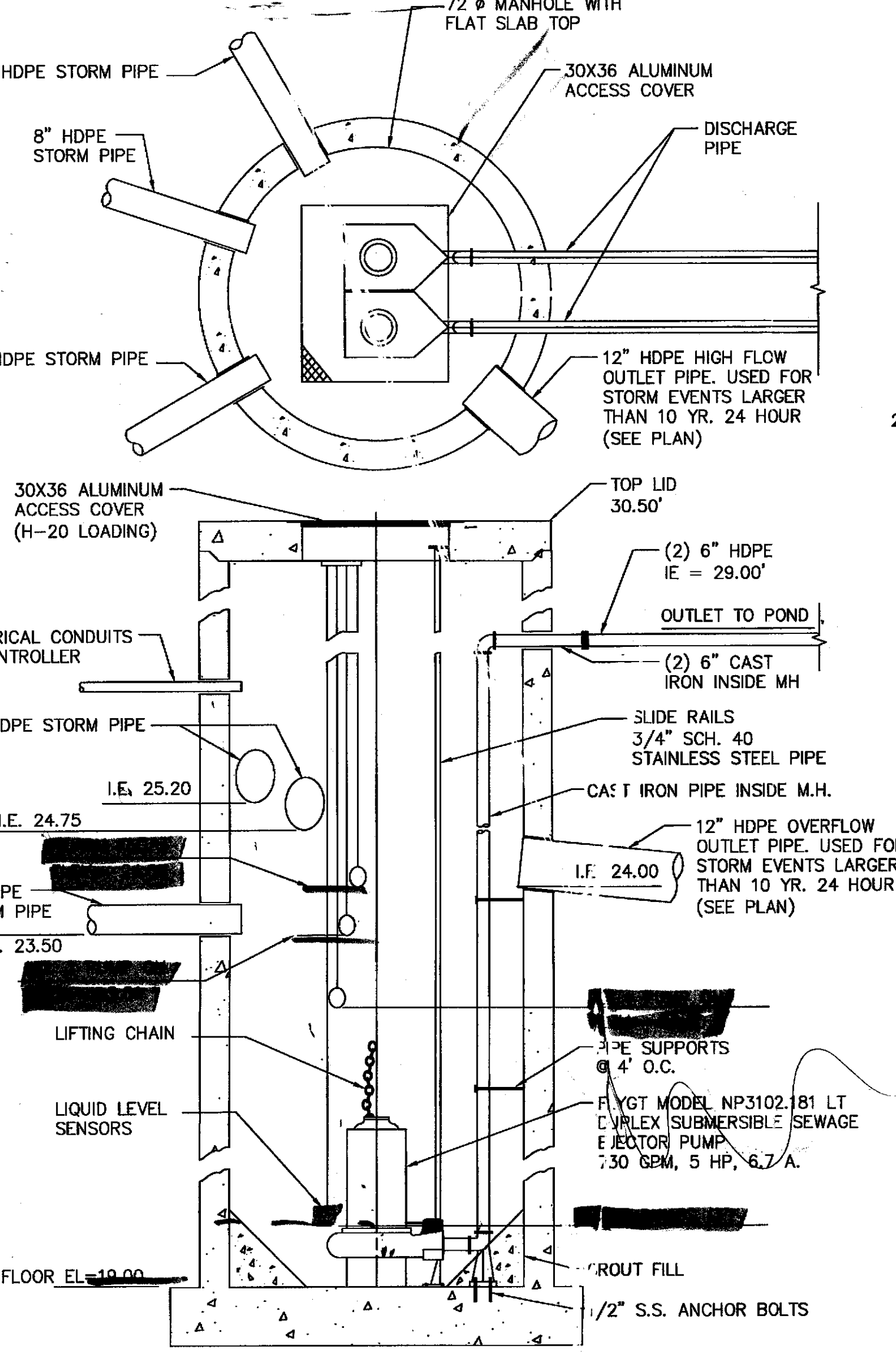
(NOTE: If 4" Pot used, Plugs at 8" o/c)  
(Plug Size: 8" x 2")  
PLACE PLUGS IN RIVER ROCK BASE ALONG BOTTOM  
TOTAL AREA = 600 SF

SWALE AREA SEED MIXTURE:  
After trees and shrubs are planted, seed entire area with native upland grass species: California brome (*Bromus carinatus*), native red fescue (*Festuca rubra*), western fescue (*F. occidentalis*), blue wildrye (*Elymus glaucus*), large-leaf lupine (*Lupinus polyphyllum*), and western yarrow (*Achillea millefolium*)

IRRIGATION NOTE:  
OWNER/DEVELOPER SHALL INSTALL AN UNDERGROUND IRRIGATION SYSTEM IN CONFORMANCE WITH CITY OF PORTLAND AND UBC STANDARDS. CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH THE OWNER.

LANDSCAPE PLAN LEGEND:

	AMOUNT	MINIMUM ROOTING SIZE	MINIMUM PLANT HEIGHT	ON CENTER SEEDING RATE
PACIFIC NINEBARK ( <i>PHYSOCARPUS CAPITATUS</i> )	- 72	1 GAL	2'	4-5'
RED ELDERBERRY ( <i>SAMBUCUS RACEMOSA</i> )	- 87	1 GAL	1.5'	4-5'
SWAMP ROSE ( <i>ROSA FLORICARPA</i> )	- 79	1 GAL	1.5'	4-5'
VINE MAPLE ( <i>ACER CIRCINATUM</i> )	- 89	2 GAL	2'	4-5'
OREGON GRAPE	- 75	1 GAL	4"	4-5'
RED-OSIER DOGWOOD ( <i>CORNUS SERICEA</i> )	- 29	1 GAL	2'	4-5'



4 LIFT STATION DETAIL

NOTE: CONTROLLER TO ALTERNATE PUMP OPERATION.

DETENTION BASIN BOTTOM SEEDING

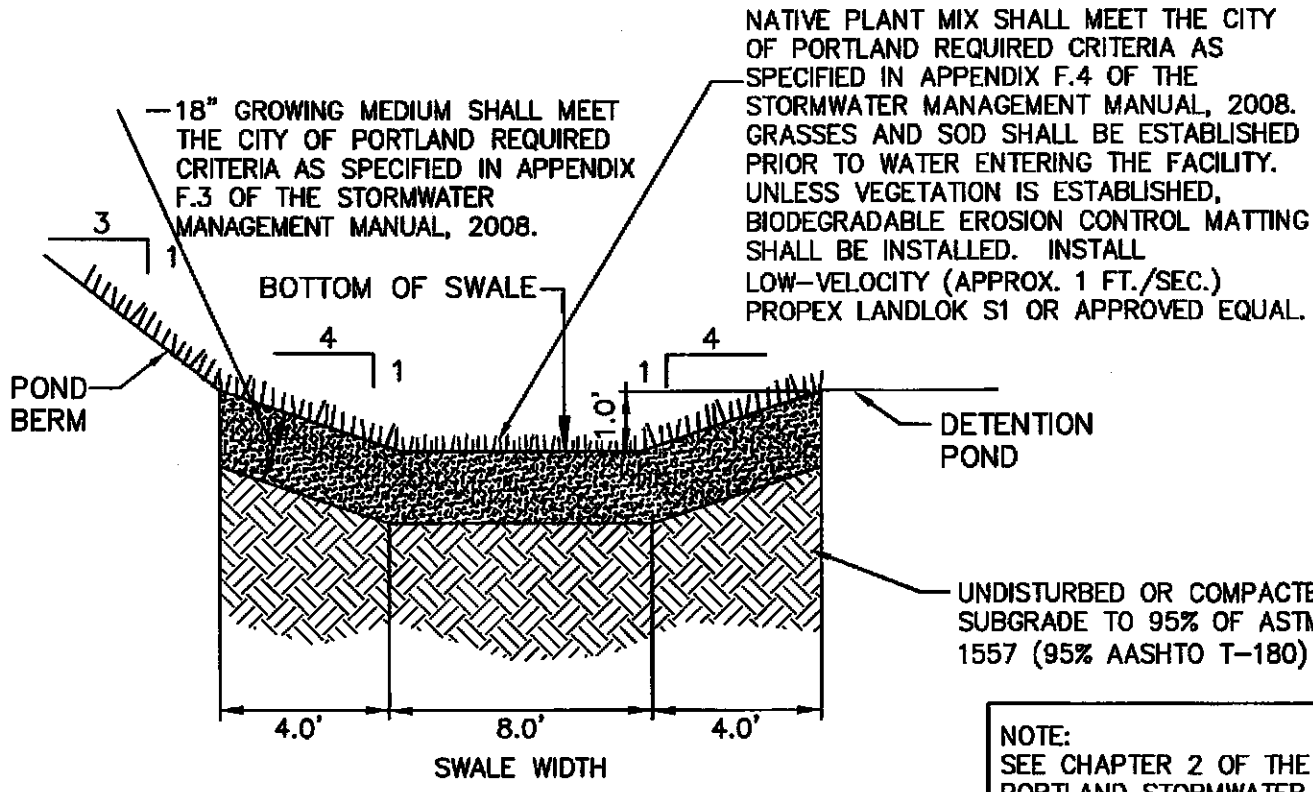
HYDRO-SEED THE DETENTION BASIN BOTTOM AREA USING THE FOLLOWING SEED MIXTURE OVER 4-INCHES OF PREPARED TOPSOIL:

50% WESTERN MANNA-GRASS (*GLYCERIA OCCIDENTALIS*)  
40% AMERICAN SLOUGHGRASS (*BECKMANNIS SYZIGACHNE*)  
10% BALTIC RUSH (*JUNCUS BALTICUS*)

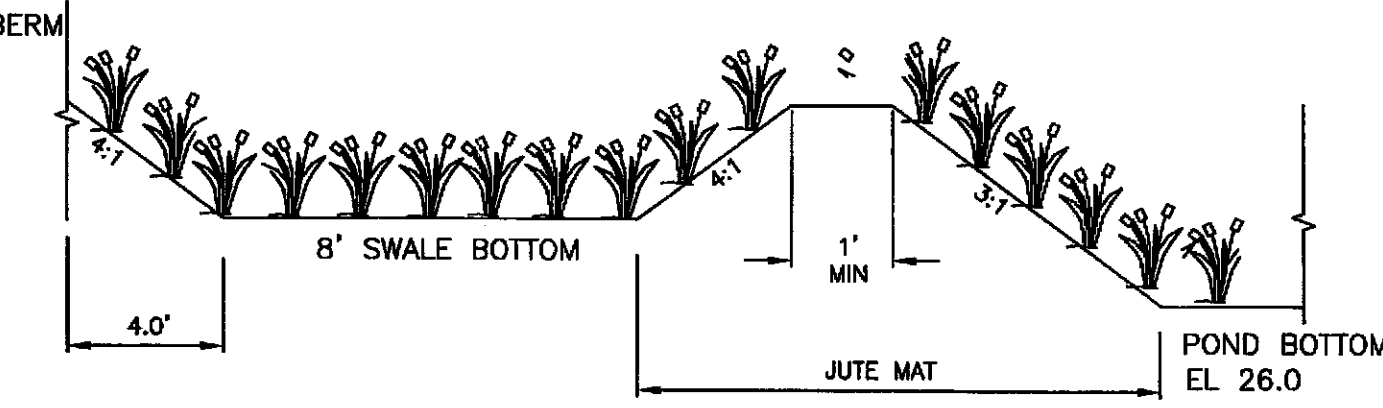
6-8 LBS/AC, P.L.S.  
16 LBS/AC, P.L.S.  
1-2 LBS/AC, P.L.S.  
P.L.S. = PURE LIVE SEED

LANDSCAPING NOTES:

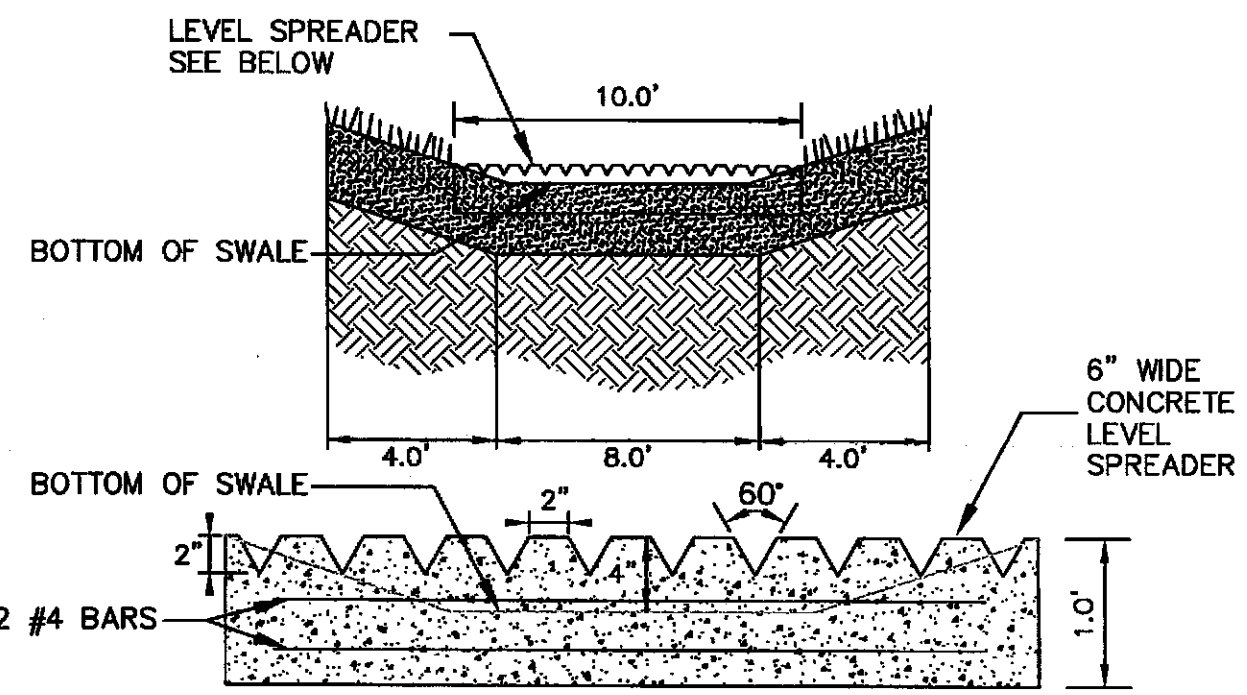
- LANDSCAPE PLANT MATERIALS WILL BE INSTALLED TO CURRENT NURSERY INDUSTRY STANDARDS.
- LANDSCAPE PLANT MATERIALS SHALL BE PROPERLY GUYED AND STAKED TO CURRENT INDUSTRY STANDARDS. STAKES AND WIRES SHALL NOT INTERFERE WITH VEHICULAR OR PEDESTRIAN TRAFFIC.
- CONTRACTOR TO MAINTAIN MITIGATION AREA UNTIL PROJECT IS ACCEPTED BY THE CITY AND ON THE 1 YEAR MAINTENANCE PERIOD. OWNER IS TO MAINTAIN PLANTINGS THRU MAINTENANCE/HOME BUILDING PERIOD.



1 TYPICAL SWALE CROSS-SECTION  
N.T.S.

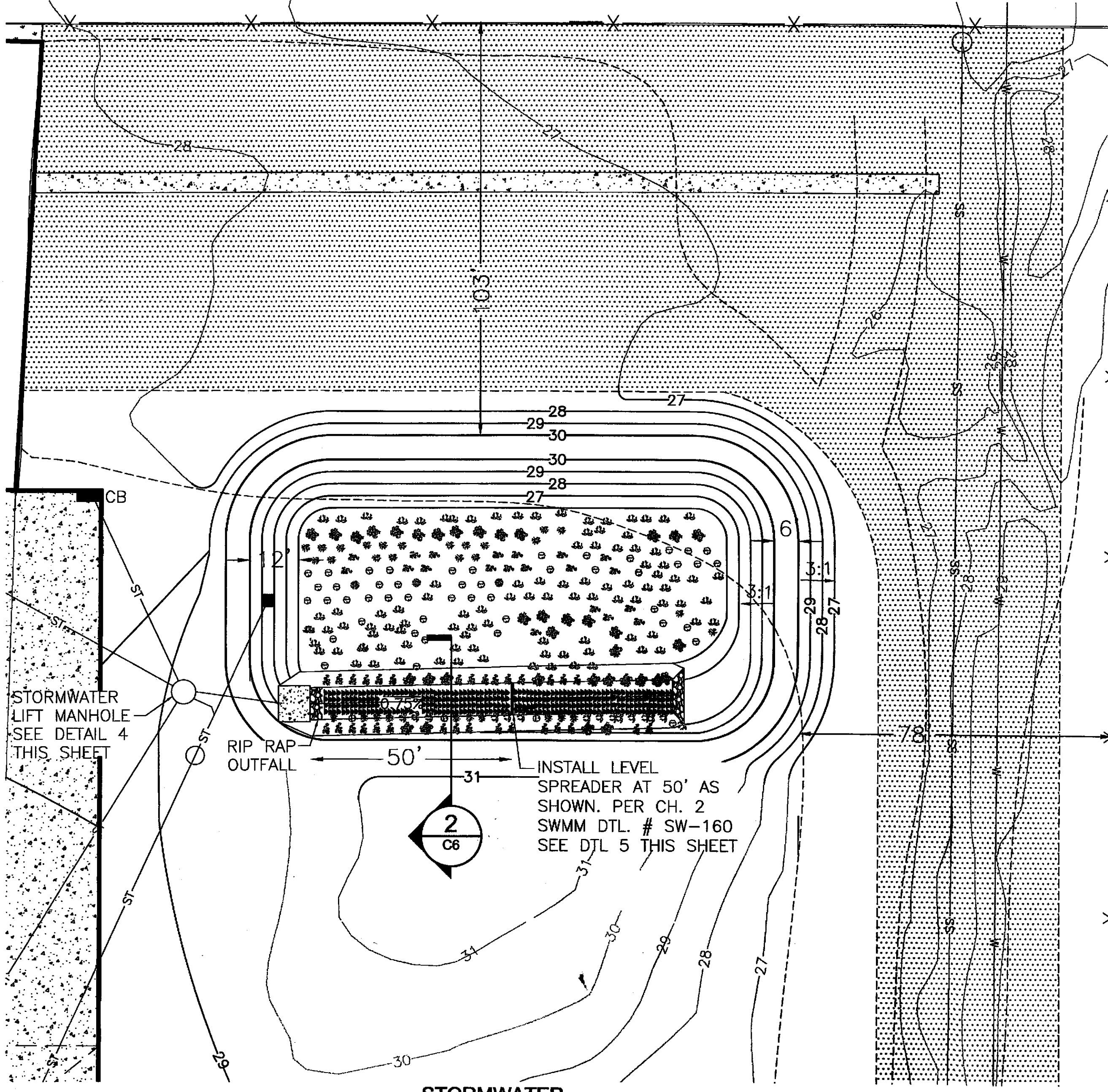


2 SWALE SECTION  
N.T.S.

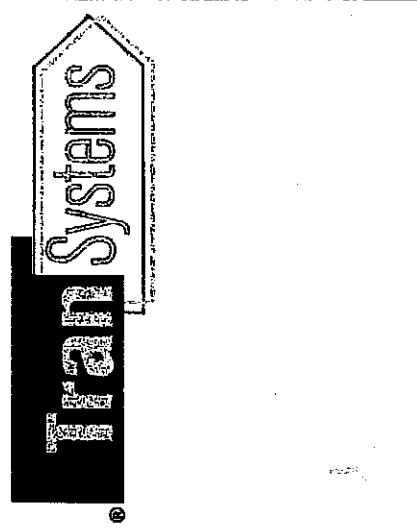


5 LEVEL SPREADER DETAIL  
SCALE: N.T.S.

LEVEL SPREADER PER DETAIL SW-160 2008 SWMM



3 STORMWATER MANAGEMENT PLAN  
SCALE: 1"=20'



CONSULTANTS:

**RB RECYCLING**  
9945 N. BURGARD AVE.  
PORTLAND, OREGON 97203

REVISIONS	ISSUED FOR PERMIT	DATE	DESCRIPTION
1	5-22-2009		
PROJ NO:	P507090018		
SCALE:	AS SHOWN		
DATE:			
DESIGNED BY:	JEW/JRM		
DRAWN BY:	JEW		
CHECKED BY:	GRH/JRM		
SHEET TITLE:	STORMWATER MANAGEMENT PLAN		
SHEET NO.	C6		
SHEET	OF		



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
04/17/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> MARSH USA, INC. 507 PLUM STREET, SUITE 110 SYRACUSE, NY 13204 Attn: Upstate.certrequest@Marsh.com Fax: 212-948-0930		<b>CONTACT NAME:</b> <b>PHONE (A/C. No. Ext):</b> <b>FAX (A/C. No):</b> <b>E-MAIL ADDRESS:</b>	
500364-carli-GAWX-19-20		<b>INSURER(S) AFFORDING COVERAGE</b>	
<b>INSURED</b> Ultimate RB, Inc PO Box 7000 Carlisle, PA 17013		<b>NAIC #</b> INSURER A : National Union Fire Ins Co Pittsburgh PA 19445 INSURER B : New Hampshire Ins. Co. 23841 INSURER C : N/A N/A INSURER D : INSURER E : INSURER F :	

**COVERAGES** **CERTIFICATE NUMBER:** NYC-010852125-03 **REVISION NUMBER:** 14

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> <b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			6862360  "SIR - \$1,000,000" 'GEN LIAB APPLIES IN EXCESS OF	07/01/2019	07/01/2020	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 25,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
A	<b>AUTOMOBILE LIABILITY</b>			4993174 (AOS)	07/01/2019	07/01/2020	COMBINED SINGLE LIMIT (Ea accident) \$ 3,000,000
A	<input checked="" type="checkbox"/> ANY AUTO			4993173 (MA)	07/01/2019	07/01/2020	BODILY INJURY (Per person) \$
A	<input type="checkbox"/> OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			4993172 (VA)	07/01/2019	07/01/2020	BODILY INJURY (Per accident) \$
				"Self Insured for Phys Dmg"			PROPERTY DAMAGE (Per accident) \$
							\$
	<b>UMBRELLA LIAB</b>						EACH OCCURRENCE \$
	<b>EXCESS LIAB</b>						AGGREGATE \$
	DED						\$
	RETENTION \$						
B	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b>			014649354 (AOS)	07/01/2019	07/01/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER
B	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	Y / N	N / A	014649355 (FL)	07/01/2019	07/01/2020	E.L. EACH ACCIDENT \$ 2,000,000
B	If yes, describe under DESCRIPTION OF OPERATIONS below	N		014649352 (CA)	07/01/2019	07/01/2020	E.L. DISEASE - EA EMPLOYEE \$ 2,000,000
B				014649353 (NY)	07/01/2019	07/01/2020	E.L. DISEASE - POLICY LIMIT \$ 2,000,000

**DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)**  
 Metro, its elected officials, departments, employees, volunteers and agents is included as additional insured where required by written contract and allowed by law with respect to General liability.

<b>CERTIFICATE HOLDER</b> Metro 600 NE Grand Avenue Portland, OR 97232	<b>CANCELLATION</b> SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE of Marsh USA Inc. Annette M Borodzick <i>Annette M. Borodzick</i>
---	--

POLICY NUMBER: GL 686-23-60

COMMERCIAL GENERAL LIABILITY  
CG 20 26 04 13

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

**ADDITIONAL INSURED - DESIGNATED  
PERSON OR ORGANIZATION**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

**SCHEDULE**

**Name Of Additional Insured Person(s) Or Organization(s):**

AS REQUIRED BY CONTRACT OR AGREEMENT

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

A. **Section II - Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:

1. In the performance of your ongoing operations; or
2. In connection with your premises owned by or rented to you.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured

is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following is added to **Section III - Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
  2. Available under the applicable Limits of Insurance shown in the Declarations;
- whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

ATTN: ~~Rich~~ Peter Duly  
~~SEATTLE~~

Oregon Department of Environmental Quality  
 LAND USE COMPATIBILITY STATEMENT (LUCS)  
 p. 1 of 2

09-147805 PR  
 (corrected)

<b>SECTION 1. PROJECT INFORMATION BY APPLICANT</b>																													
<b>A. Applicant Name:</b> RB Recycling Inc.	<b>B. Project Name:</b> RB Recycling Inc. New Site																												
<b>Contact Name:</b> Peter Duly	<b>Physical Address:</b> 9945 N. Burgard Way																												
<b>Mailing Address:</b> 8501 N. Borthwick	<b>City, State, Zip:</b> Port. Or. 97203																												
<b>City, State, Zip:</b> Port. Or. 97217	<b>Tax Lot #:</b> 100																												
<b>Telephone:</b> 503-283-2261	<b>Township:</b> 2 North <b>Range:</b> 1 West <b>Section:</b> 35																												
<b>Tax Account #:</b> R-325511	<b>Latitude:</b> 45.6135																												
	<b>Longitude:</b> 122.7781																												
<b>C. Describe the project, include the type of development, business, or facility and services or products provided (attach additional information if necessary):</b> Transport waste tires and industrial rubber scrap to site. Process waste material into feed stock for beneficial use such as molded rubber products, boiler fuel and scrap metal recovery.																													
<b>D. Check the type of DEQ permit(s) or approval(s) being applied for at this time.</b> <table border="0"> <tr> <td><input type="checkbox"/> Air Quality Notice of Construction</td> <td><input type="checkbox"/> Hazardous Waste Treatment, Storage, or Disposal Permit</td> </tr> <tr> <td><input type="checkbox"/> Air Contaminant Discharge Permit (excludes portable facility permits)</td> <td><input type="checkbox"/> Clean Water State Revolving Fund Loan Request</td> </tr> <tr> <td><input type="checkbox"/> Air Quality Title V Permit</td> <td><input type="checkbox"/> Wastewater/Sewer Construction Plan/Specifications (includes review of plan changes that require use of new land)</td> </tr> <tr> <td><input type="checkbox"/> Air Quality Indirect Source Permit</td> <td><input type="checkbox"/> Water Quality NPDES Individual Permit</td> </tr> <tr> <td><input type="checkbox"/> Parking/Traffic Circulation Plan</td> <td><input type="checkbox"/> Water Quality WPCF Individual Permit (for onsite construction-installation permits use the DEQ Qsuite LUCS form)</td> </tr> <tr> <td><input type="checkbox"/> Solid Waste Land Disposal Site Permit</td> <td><input checked="" type="checkbox"/> Water Quality NPDES Stormwater General Permit (1200-A, 1200-C, 1200-CA, 1200-COLS, and 1200-Z)</td> </tr> <tr> <td><input type="checkbox"/> Solid Waste Treatment Facility Permit</td> <td><input type="checkbox"/> Water Quality General Permit (all general permits, except 600, 700-PM, 1700-A, and 1700-B when they are mobile.)</td> </tr> <tr> <td><input type="checkbox"/> Solid Waste Compost Facility Registration or Permit</td> <td><input type="checkbox"/> Water Quality 401 Certification for federal permit or license</td> </tr> <tr> <td><input type="checkbox"/> Solid Waste Litter Authorization Permit</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Solid Waste Material Recovery Facility Permit</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Solid Waste Energy Recovery Facility Permit</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Solid Waste Transfer Station Permit</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> Waste Tire Storage Site Permit</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Pollution Control Board Request</td> <td></td> </tr> </table>		<input type="checkbox"/> Air Quality Notice of Construction	<input type="checkbox"/> Hazardous Waste Treatment, Storage, or Disposal Permit	<input type="checkbox"/> Air Contaminant Discharge Permit (excludes portable facility permits)	<input type="checkbox"/> Clean Water State Revolving Fund Loan Request	<input type="checkbox"/> Air Quality Title V Permit	<input type="checkbox"/> Wastewater/Sewer Construction Plan/Specifications (includes review of plan changes that require use of new land)	<input type="checkbox"/> Air Quality Indirect Source Permit	<input type="checkbox"/> Water Quality NPDES Individual Permit	<input type="checkbox"/> Parking/Traffic Circulation Plan	<input type="checkbox"/> Water Quality WPCF Individual Permit (for onsite construction-installation permits use the DEQ Qsuite LUCS form)	<input type="checkbox"/> Solid Waste Land Disposal Site Permit	<input checked="" type="checkbox"/> Water Quality NPDES Stormwater General Permit (1200-A, 1200-C, 1200-CA, 1200-COLS, and 1200-Z)	<input type="checkbox"/> Solid Waste Treatment Facility Permit	<input type="checkbox"/> Water Quality General Permit (all general permits, except 600, 700-PM, 1700-A, and 1700-B when they are mobile.)	<input type="checkbox"/> Solid Waste Compost Facility Registration or Permit	<input type="checkbox"/> Water Quality 401 Certification for federal permit or license	<input type="checkbox"/> Solid Waste Litter Authorization Permit		<input type="checkbox"/> Solid Waste Material Recovery Facility Permit		<input type="checkbox"/> Solid Waste Energy Recovery Facility Permit		<input type="checkbox"/> Solid Waste Transfer Station Permit		<input checked="" type="checkbox"/> Waste Tire Storage Site Permit		<input type="checkbox"/> Pollution Control Board Request	
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<b>Instructions:</b> Written findings of fact for all local decisions are required; written findings from previous actions are acceptable. For uses allowed outright by the acknowledged comprehensive plan, DEQ will accept written findings in the form of a reference to the specific plan policies, criteria, or standards that were relied upon in rendering the decision with an indication of why the decision is justified based on the plan policies, criteria, or standards.																													
<b>A. The project proposal is located:</b> <input checked="" type="checkbox"/> Inside city limits <input type="checkbox"/> Inside UGB <input type="checkbox"/> Outside UGB																													
<b>B. Name of the city or county that has land use jurisdiction (the legal entity responsible for land use decisions for the subject property or land use):</b> City of Portland																													



**Oregon Department of Environmental Quality  
LAND USE COMPATIBILITY STATEMENT (LUCS)**

p. 2 of 2

<b>APPLICANT INFORMATION</b>	
<b>Applicant Name:</b> <u>RB Recycling</u>	<b>Project Name:</b> <u>RB Recycling</u>
<b>C. Is the activity or use allowed under Measure 49?</b> <input checked="" type="checkbox"/> No, Measure 49 is not applicable <input type="checkbox"/> Yes; if yes, then check one:	
<input type="checkbox"/> Express; approved by DLCD order #:	
<input type="checkbox"/> Conditional; approved by DLCD order #:	
<input type="checkbox"/> Vested; approved by local government decision or court judgment docket or order #:	
<b>D. Is the activity or use compatible with your acknowledged comprehensive plan as required by OAR 660-031?</b> <i>Please complete this form to address the activity or use for which the applicant is seeking approval (see 1.C on the previous page). If the activity or use is to occur in multiple phases, please ensure that your approval addresses the phases described in 1.C. For example, if the applicant's project is described in 1.C as a subdivision and the LUCS indicates that only clearing and grading are allowed outright but does not indicate whether the subdivision is approved, DEQ will delay permit issuance until approval for the subdivision is obtained from the local planning official.</i>	
<input type="checkbox"/> The activity or use is not regulated by the acknowledged comprehensive plan; explain:	
<input type="checkbox"/> YES, the activity or use is pre-existing nonconforming use allowed outright by (provide reference for local ordinance):	
<input checked="" type="checkbox"/> YES, the activity or use is allowed outright by (provide reference for local ordinance): <u>Portland Title 33, Planning &amp; Zoning</u>	
<input type="checkbox"/> YES, the activity or use received preliminary approval that includes requirements to fully comply with local requirements, findings are attached.	
<input type="checkbox"/> YES, the activity or use is allowed; findings are attached.	
<input type="checkbox"/> NO, see 2.C above, activity or use allowed under Measure 49; findings are attached.	
<input type="checkbox"/> NO, (complete below or attach findings for noncompliance and identify requirements the applicant must comply with before compatibility can be determined): Relevant specific plan policies, criteria, or standards:	
Provide the reasons for the decision:	
<b>Additional comments (attach additional information as needed):</b>	
<div style="display: inline-block; border: 1px solid black; padding: 5px; margin: 10px;">             City of Portland              Bureau of              Development Services              Development Services Center              1900 SW 4th Ave., Suite 5000              Portland, OR 97201           </div> <div style="display: inline-block; margin: 10px;">             Bureau of Development Services              Land Use Review              1900 SW 4th Ave., Suite 5000              Portland, OR 97201           </div>	
<b>Planning Official Signature:</b> <u>Jill M. Grenda</u>	<b>Title:</b> <u>city planner II</u>
<b>Print Name:</b> <u>Jill M. Grenda</u>	<b>Telephone #:</b> <u>503.823.3580</u> <b>Date:</b> <u>1/22/10</u>
<i>If necessary, depending upon city/county agreement on jurisdiction outside city limits but within UGB:</i>	
<b>Planning Official Signature:</b>	<b>Title:</b>
<b>Print Name:</b>	<b>Telephone #:</b>
<b>Date:</b>	



State of Oregon  
Department of  
Environmental  
Quality

Permit Number: 1411  
Expiration Date: April 15, 2023  
Page 1 of 19

## WASTE TIRE STORAGE SITE/CARRIER COMBINATION PERMIT

Oregon Department of Environmental Quality  
700 NE. Multnomah St., Suite 600  
Portland, OR 97232  
Telephone: 503-229-6945

[Email: DEQNWR.SolidWastePermitCoordinator@deq.state.or.us](mailto:DEQNWR.SolidWastePermitCoordinator@deq.state.or.us)

Issued in accordance with the provisions of ORS Chapter 459 and the land use compatibility statement listed below.

---

**ISSUED TO:**

Ultimate RB  
9945 N. Burgard Way  
Portland, OR 97203  
503-283-2261

**FACILITY NAME AND LOCATION:**

Ultimate RB  
9945 N. Burgard Way  
Portland, OR 97203  
Multnomah County

**OPERATOR:**

Ultimate RB  
9945 N. Burgard Way  
Portland, OR 97203  
Multnomah County  
(503) 283-2261

**PROPERTY OWNER:**

Carlisle Construction Materials  
1275 Ritner Highway  
Carlisle, PA 17013  
717-245-7055

**SHORT-TERM LEASE OPTION:** No

**ISSUED IN RESPONSE TO:**

- A permit renewal application received on September 27, 2019
- A land use compatibility statement from the City of Portland dated Jan. 22, 2010.

The determination to issue this permit is based on findings and technical information included in the permit record.

**ISSUED BY THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY**

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Audrey M. O'Brien  
Solid Waste Manager, Northwest Region

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Date

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**Permitted Activities**

Until such time as this permit expires or is modified or revoked, the permittee is authorized to establish, operate, and maintain a waste tire storage site and to haul waste tires in conformance with the requirements, limitations, and conditions set forth in this document including all attachments.

## TABLE OF CONTENTS

**Introduction.** This document is a waste tire storage/carrier combination site permit issued by the Oregon Department of Environmental Quality in accordance with Oregon Revised Statutes (ORS) 459 and Oregon Administrative Rules (OAR), Chapter 64 and 93 through 97.

**In this document.** This document contains the following sections:

<b>Permit Administration</b>	
1.0	Issuance .....3
2.0	Disclaimers .....3
3.0	Authority.....3
4.0	Permit Modification .....4
<b>Allowable Activities</b>	
5.0	Authorizations .....5
6.0	Prohibitions .....5
<b>Site Operations and Closure</b>	
7.0	Storage and Transport Conditions.....6
8.0	Recordkeeping and Reporting .....7
9.0	Site Maintenance .....9
10.0	Fire Protection and Contingency .....9
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12.0	Closure and Financial Assurance.....11
<b>Attachment No. 1 – Operating Plan .....13</b>	
<b>Attachment No. 2 – Annual Report Form .....15</b>	
<b>Attachment No. 3 – Monthly Report Form.....19</b>	

## PERMIT ADMINISTRATION

### 1.0 ISSUANCE

- 1.1 Permittee.** This permit is issued to Ultimate RB.
- 1.2 Permit number.** This permit is referred to as Waste Tire Storage/ Carrier Combination Site Permit Number 1411.
- 1.3 Permit term.** The issue date of this permit is the date this document is signed.  
The expiration date of this permit is April 15, 2023.
- 1.4 Facility type.** The facility is permitted as a combination waste tire storage site/waste tire carrier.
- 1.5 Facility owner/ operator.**  
The owner and operator of this facility is Ultimate RB.
- 1.6 Basis for issuance.** This permit will be issued based on the following documents:
- A Waste Tire Storage/Carrier Site Renewal Application received on September 27, 2019.
  - A Land Use Compatibility Statement from the City of Portland dated January 22, 2010.
- 1.7 Definitions.** Unless otherwise specified, all terms are as defined in OAR 340-093 and OAR 340-064.

### 2.0 DISCLAIMERS

- 2.1 Property rights.** The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights.
- 2.2 DEQ liability.** The DEQ, its officers, agents, or employees do not sustain any liability on account of the issuance of this permit or on account of the construction, maintenance, or operation of facilities pursuant to this permit.

### 3.0 AUTHORITY

- 3.1 Documents superseded.** This document is the primary waste tire permit for the facility, superseding all previous DEQ Solid Waste Disposal Permits for this facility.
- 3.2 Permittee responsibility and liability.** The permittee must comply with this permit. The permittee also is responsible for the acts and omissions of its employees, agents, and contractors relating to matters regulated under this permit.
- 3.3 DEQ access to disposal site.** The permittee must allow representatives of the DEQ access to the disposal facility at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data and carrying out other necessary functions related to this permit.

Reference: OAR 340-093-0050(6).

- 3.4 Other compliance.** Issuance of this permit does not relieve the permittee from the responsibility to comply with all other applicable federal, state, or local laws or regulations. This includes the following solid waste requirements, as well as all updates or additions to these requirements:
- Waste tire storage site permit renewal application received November 10, 2016;
  - Oregon Revised Statutes, Chapters 459 and 459A;
  - Oregon Administrative Rules Chapter 64 and Chapters 93-97; and

- Any other documents submitted by the permittee and approved by the DEQ.

**3.5 Penalties.** Violation of permit conditions will subject the permittee to civil penalties of up to \$25,000 for each day of each violation [ORS 459.995(1)(a)].

## **4.0 PERMIT MODIFICATION**

**4.1 Permit review.** During the life of the permit, the DEQ may review the permit and determine whether or not the permit should be amended. DEQ reserves the right to amend the permit to address any significant new information or change in status or operations at the facility including but not limited to:

- Compliance history of the facility;
- Changes in waste volume or composition, or in operations at the facility;
- Changes in state or federal rules which should be incorporated into the permit;
- A significant release to the environment from the facility; and
- Significant changes to a DEQ-approved site development plan and/or conceptual design.

**4.2 Modification.** At any time in the life of the permit, the DEQ or the permittee may propose changes to the permit.

**4.3 Modification and revocation by DEQ.** The Director may, at any time before the expiration date, modify, suspend, or revoke this permit in whole or in part, in accordance with ORS 459.255 and OAR 340 Divisions 093-097, for reasons including but not limited to the following:

- Violation of any terms or conditions of this permit or any applicable statute, rule, standard, or order of the Commission;
- Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- A significant change in the quantity or character of solid waste received or in the operation of the disposal site.

**4.4 Modification by permittee.** The permittee must apply for a modification to this permit if there is a significant change in facility operations or a deviation from activities described in this document.

**4.5 Public participation.** The DEQ will issue a public notice to inform the public of any significant changes to the permit as required by DEQ rules.

Reference: OAR 340-093-0100

**4.6 Changes in ownership.** The permittee must report to the DEQ any changes in ownership of the storage site property, change in the name and address of the permittee or operator, or change from individual to partnership within thirty (30) days of the change.

Reference: OAR 340-064-0025(b)

**4.7 Change in vehicles or licenses.** The permittee must inform the DEQ, in writing, of any change in license plates or vehicles used in tire transport within one week of the change.

The permittee must apply to the DEQ to add new vehicles to the Operating Plan or to delete vehicles no longer used for tire transport within 10 days of the change by submitting an updated Operating Plan (Attachment 1) available on DEQ's website: <http://www.deq.state.or.us/pubs/forms.htm#Tire>

**4.8 Change in delivery location.** If the permittee wants to dispose of tires at a location not listed in the Operating Plan (Attachment 1), the permittee must receive written approval from the DEQ prior to transporting tires to that location. The Operating Plan is available on DEQ's website at: <http://www.deq.state.or.us/pubs/forms.htm#Tire>

The request must include documentation that the delivery location is an approved facility and meets all laws of the State of Oregon and the rules of the DEQ. If the delivery location is out of state, the permittee must submit written documentation from the receiving state indicating the facility is an approved disposal facility in that receiving state.

## ALLOWABLE ACTIVITIES

### 5.0 AUTHORIZATIONS

- 5.1 Wastes authorized for receipt.** This permit authorizes the facility to accept waste tires for temporary storage and processing, as defined in OAR 340-064-0010.
- 5.2 Tire storage limits.** This permit authorizes the facility to store a maximum of 95,000 passenger tire equivalents (PTE) of waste tires and tire-derived products (tire shreds or chips), using the following conversion factors:
- 1 truck tire = 5 PTE
  - 1 cubic yard primary shreds = 30 PTE
  - 1 cubic yard 2-inch chips = 50 PTE
  - 1 cubic yard 1-inch chips = 55 PTE
- 5.3 Authorization of other wastes.** The DEQ may authorize the permittee to accept other wastes if:
- The permittee updates the Operations Plan that includes a Special Waste Management Plan (SWMP) if needed and submits it to the DEQ for review and approval; and
  - The DEQ approves, in writing, the updated Operations Plan and SWMP; and
  - The permittee can demonstrate that the materials are not hazardous waste, as defined by state and federal regulations, or otherwise a threat to human health or the environment.
- Reference: Hazardous wastes are defined in ORS 466.005 and OAR 340 Division 101 and 40 Code of Federal Regulations (CFR) 258.20(b).
- 5.4 Authorization of activities.** The permittee must comply with this permit. Once approved by the DEQ, any permit-required plans become part of the permit by reference. The DEQ may provide notice and opportunity for review of permit-required plans.
- 5.5 Tire collection.** This permit authorizes the transport of waste tires using the vehicles listed on the Operating Plan submitted to DEQ. The DEQ must approve the use of other vehicles prior to use.
- 5.6 Delivery locations.** This permit authorizes the permittee to transport tires to the location(s) listed in the Waste Tire Delivery Sites (Attachment 1). Changes to delivery sites must receive DEQ approval as per Section 4.9 of this permit.
- 5.7 Waste tire carriers.** The permittee must receive waste tires from waste tire carriers that are permitted by the DEQ or individuals exempted by rule from waste tire carrier permit requirement.

Reference: OAR 340-064-0055(3)

### 6.0 PROHIBITIONS

- 6.1 Hazardous waste.** The permittee must not knowingly accept any hazardous wastes. Hazardous wastes are defined in Oregon Revised Statutes 466.005 and OAR 340-101.
- 6.2 Open burning.** The permittee must not allow burning of waste tires, cut tires, tire derived product, or any solid waste at the site.

**6.3 Burying.** The permittee must not allow burying of waste tires, cut tires, tire derived product, or any solid waste at the site.

**6.4 Flames.** The permittee must not conduct any operations involving the use of open flames or blowtorches within 25 feet of a waste tire pile.

Reference: OAR 340-0064-0035(4)(g)

**6.5 Decal transfer.** The permittee must not lease, loan, or rent this permit or decals issued by the DEQ under this permit.

## SITE OPERATION AND CLOSURE

### 7.0 STORAGE AND TRANSPORT CONDITIONS

**7.1 Plan compliance.** The permittee must operate the facility in accordance with a DEQ approved facility management plan. The permittee must update the plan to keep it reflective of current conditions, and submit any updates to the DEQ for approval. Reference: OAR 340-064-0035

Note: The facility management plan must address spill prevention and response and stormwater management among its other operational activities.

**7.2 Pile dimensions.** The permittee must store waste tires or tire-derived product according to the following:

Storage of tires and tire derived products		
Item	Storage location	Storage requirements
Whole tires	Outdoors	Store in piles no greater than: <ul style="list-style-type: none"><li>• 50 feet in width</li><li>• 15,000 square feet in area, and</li><li>• 6 feet in height</li></ul> <u>Reference:</u> OAR 340-0064-0035(4)(a)
Whole tires	Indoors	Store under conditions that meet those in the "Standard for Storage of Rubber Tires," NFPA 231-D-1986 <u>Reference:</u> OAR 340-0064-0035(7)
Tire derived products	Outdoors	Store in piles no greater than: <ul style="list-style-type: none"><li>• 120 feet in width</li><li>• 6,400 cubic yards in volume, and</li><li>• 12 feet in height</li></ul>
Tire derived products	Indoors	Store under conditions that meet those in the "Standard for Storage of Rubber Tires," NFPA 231-D-1986 <u>Reference:</u> OAR 340-0064-0035(7)

**7.3 Pile location.** The permittee must locate each outdoor waste tire pile according to the following conditions:

- A 50-foot fire lane shall be placed around the perimeter of each waste tire pile.
- Access to the fire lane for emergency vehicles must be unobstructed at all times.

Waste tire piles must be located at least 60 feet from buildings or in a location otherwise approved by the DEQ. Tire storage must be conducted according to a DEQ approved facility management plan.

Reference: OAR 340-064-0035

- 7.4 Ricking.** Whole tires received for storage of one month or longer must be stacked or ricked unless the DEQ waives this requirement.

Reference: OAR 340-0064-0035(4)(d)

- 7.5 Submersion prevention.** The permittee must not store waste tires in any area where they may be subjected to submersion in water such as a wetland, waterway, floodway, or 25-year floodplain.

Reference: OAR 340-0064-0035(3)

- 7.6 Vectors.** The permittee must operate and maintain the site in a manner which avoids the attraction of insects, rodents, and other vectors to the maximum extent practical.

Reference: OAR 340-0064-0035(4)(e)

- 7.7 Transporter decal display.** The permittee must display current decals with the waste tire carrier identification number issued by the DEQ. The permittee must permanently attach the decals to the outside of the front doors of each vehicle used to transport tires.

When the permit is canceled or is revoked, the permittee must immediately remove all waste tire permit decals from the vehicles and return the decals to the DEQ within 30 days.

## **8.0 RECORDKEEPING AND REPORTING**

- 8.1 Non-compliance reporting.** In the event that any condition of this permit or of the DEQ's rules is violated, the permittee must immediately take action to correct the unauthorized condition and immediately notify the DEQ's waste tire program staff at 503-229-5353 or email to: [DEQNWR.SolidWastePermitCoordinator@deq.state.or.us](mailto:DEQNWR.SolidWastePermitCoordinator@deq.state.or.us).

Response: In response to such a notification, the DEQ may conduct an investigation to evaluate the nature and extent of the problem, and to evaluate plans for additional corrective actions, as necessary.

- 8.2 Permit display.** The permittee must display this permit or a photocopy thereof, where operating personnel can readily refer to it.

- 8.3 Access to records.** Upon request, the permittee must make all records and reports related to the waste tire storage permit available to the DEQ.

- 8.4 Record keeping and reporting procedures.** The permittee must keep records and submit reports in accordance with the following:



Step	Action
1	Collect and submit to DEQ the following waste tire storage information: <ul style="list-style-type: none"> <li>• Number of waste tires received at the site each quarter, measured by aggregate load or cubic yards as agreed to with the DEQ</li> <li>• Approximate number of waste tires and amount of tire-derived products shipped from the site each quarter, measured by aggregate loads or cubic yards</li> <li>• Number of waste tires and amount of tire-derived products in storage on December 31</li> <li>• A list of the names (and DEQ waste tire carrier number where applicable) of all carriers delivering waste tires to the site</li> <li>• A list of the names (and waste tire carrier number where applicable) of all carriers removing waste tires from the site</li> </ul>
2	Collect the following waste tire carrier information on forms provided by the DEQ: <ul style="list-style-type: none"> <li>• Collection date</li> <li>• Location of collection site</li> <li>• Where or from whom tires were collected per month</li> <li>• the approximate quantity of tires collected each month, measured by aggregate loads or cubic yards, if the approximate number of tires in each load is documented</li> </ul>
3	Obtain receipts or other written materials documenting where tires were disposed and amount of tires disposed
4	Summarize the waste tire carrier data collected on a monthly basis, on the form in Attachment 2 (also available on the DEQ website: <a href="http://www.deq.state.or.us/pubs/forms.htm#Tire">http://www.deq.state.or.us/pubs/forms.htm#Tire</a> ).
5	Summarize the number of waste tires received at the site and the number of waste tires and amount of tire-derived products shipped from the site for the calendar year
6	Submit a report of the information collected and summarized above by February 1 of each year the permit is in effect
7	Submit the compliance fee with the report each year, in accordance with the fee schedule
8	Maintain copies of all records and reports for 3 years.

**8.5 Complaint log.** The permittee must maintain a log recording all complaints received in writing (including e-mail), via telephone or in person by the facility operator or staff that specifically refer to dust, odor or other nuisance conditions caused by this facility. The log must also record the permittee's actions to investigate, make a determination as to the validity of the complaint, and resolve the nuisance problem, if possible, within two working days, but no longer than 10 working days after receiving the complaint. Reference: OAR 340-064-0025(3)(g).

**8.6 Supporting documents.** The permittee must maintain records (such as receipts) of number of tires delivered to and shipped from the site and the associated carrier. These records must be available for inspection by the DEQ, but do not need to be submitted in the annual report.

**8.7 Unauthorized carrier notice.** The permittee must notify the DEQ within 30 days of the name and number of any unpermitted waste tire carrier who delivers waste tires to the site.

**8.8 Submittal address.** All submittals to the DEQ under this section must be sent to:

Oregon Department of Environmental Quality

Northwest Region Office  
Solid Waste Program  
700 NE. Multnomah St., Suite 600  
Portland, Oregon 97232  
Or Email: [DEQNWR.SolidWastePermitCoordinator@deq.state.or.us](mailto:DEQNWR.SolidWastePermitCoordinator@deq.state.or.us)

## 9.0 SITE MAINTENANCE

- 9.1 Access roads.** The permittee must maintain an approach and access road to the waste storage site to be passable for any vehicle at all times.
- 9.2 Public access.** The permittee must control public access to the storage site to prevent unauthorized entry and dumping.
- 9.3 Signs.** The permittee must post a sign in a clear and visible location that shows:
- The name of the site;
  - Operating days and hours;
  - Cost of waste tire disposal, and
  - Site rules.
- 9.4 Attendant.** An attendant must be present at all times the waste tire storage site is open for business.

## 10.0 FIRE PROTECTION AND CONTINGENCY

- 10.1 Fire protection plan.** The permittee must maintain an up-to-date Fire Protection Plan. Any changes to the current approved plan must be submitted to DEQ for approval.
- Content: The plan must include a description and location of fire suppression equipment that will be able to extinguish the site's largest fire within 6 hours after the fire is first observed.
- 10.2 Equipment.** The permittee must maintain adequate on-site fire suppression equipment as prescribe in the DEQ approved Fire Protection Plan.
- 10.3 Fire lane.** The permittee must provide a 50-foot fire lane around the perimeter of each waste tire pile. Access to the fire lanes for emergency vehicles must be unobstructed at all times.
- 10.4 Berm.** The site shall be bermed or given other adequate protection if necessary to keep any liquid runoff from potential tire fires from entering waterways. Fire protection measures shall be described in the fire protection portion of the DEQ approved facility Contingency Plan.
- Reference: OAR 340-064-0035(k)
- Compliance Schedule: Within 45 days of permit issuance, an updated Fire Protection Plan must be submitted for DEQ approval and all fire protection measures must be in place.
- 10.5 Oil.** If pyrolytic oil is released at the site as a result of a tire fire, the permittee must remove contaminated soil in accordance with applicable rules governing the removal, transportation, and disposal of the material.
- 10.6 Submittal address.** All submittals to the DEQ under this section must be sent to:

Oregon Department of Environmental Quality  
Northwest Region Office

Solid Waste Program  
700 NE. Multnomah St., Suite 600  
Portland, Oregon 97232

Email: DEQNWR.SolidWastePermitCoordinator@deq.state.or.us

## 11.0 POLLUTION CONTROL

- 11.1 Containers.** The permittee must clean all transfer containers as needed to maintain a sanitary operating environment, and to prevent malodors, unsightliness, and attraction of vectors such as insects and rodents. Wash water that may result from cleaning activities must not be discharged to waters of the state.
- 11.2 Vehicles and Truck Covers.** All solid waste transfer vehicles and devices using public roads must be constructed, maintained, and operated so as to prevent leaking, shifting, or spilling of solid waste while in transit. The permittee must notify all haulers that trucks containing loads that are likely to blow or fall must be covered or suitably cross-tied to prevent any load loss during shipment.
- 11.3 Litter control.** Litter and debris that results from facility operations must be controlled such that the entire disposal site and adjacent lands are maintained virtually free of litter and debris at all times. Any debris from the facility must be retrieved and properly disposed of as soon as possible that operational day. Litter and debris resulting from facility operations that is impacting catch basins, swales, or other stormwater management features must be removed at a sufficient frequency to prevent impediments to stormwater flow.
- 11.4 Air quality.** The permittee must control air emissions, including dust, malodors and air toxics in accordance with the DEQ's rules on air pollution.
- According to OAR 340-208-0450, no person may cause or permit the emission of particulate matter larger than 250 microns in size at sufficient duration or quantity as to create an observable deposition upon the real property of another person when notified by the DEQ that the deposition exists and must be controlled.
- 11.5 Drainage.** The permittee must divert surface water drainage from waste handling and storage area and must maintain surface water diversion ditches or structures in a serviceable condition and free of obstructions and debris at all times. The permittee must report to DEQ any significant damage and make repairs made as soon as possible but no later than 60 days after discovery of the problem.
- 11.6 Leachate prevention.** The permittee must operate the facility in a manner that deters leachate production to the maximum extent practicable. Leachate must be collected, removed and managed in a manner approved by DEQ to prevent malodors, public health hazards, and discharges to public waters.
- 11.7 Stormwater management.** The permittee must manage and monitor stormwater in accordance with all federal and state requirements including those requirements listed in stormwater permits issued to the facility.
- 11.8 Discovery of prohibited waste.** Any solid wastes discovered at the facility which appear to be prohibited waste must be isolated immediately. Non-hazardous prohibited waste must, within 48 hours, be transported to a disposal site authorized to accept such waste, unless otherwise approved by the DEQ.

In the event discovered wastes are hazardous or suspected to be hazardous, the permittee must isolate the waste immediately. The permittee must then notify the DEQ within 24 hours and initiate procedures to identify and remove the waste. Hazardous wastes must be removed by a licensed hazardous waste contractor within 48 hours, unless otherwise approved by the DEQ. Temporary storage and transportation must be carried out in accordance with the rules of the DEQ.

**11.9 Oil and Hazardous Material Spills Response.** Any spill of oil or hazardous material must be cleaned up immediately as described in the facility Operations Plan. In addition to notifying the DEQ Northwest Region Office of any spill, if the spill is of a reportable quantity, as defined in 340-142-0050, the permittee must immediately report the spill to the Oregon Emergency Response System (OERS), at 1-800-452-0311.

- Any amount of oil spilled to waters of the state;
- Oil spills on land in excess of 42 gallons;
- 200 pounds (25 gallons) or more of spilled pesticide residue;
- Hazardous materials that are equal to, or greater than, the quantity listed in the Code of Federal Regulations, 40 CFR Part 302 (List of Hazardous Substances and Reportable Quantities), and amendments adopted before July 1, 2002. For a complete list of hazardous materials required to be reported, please refer to OAR 340-142-0050.

•

**11.10 Equipment.** Equipment of adequate size and design to properly operate the facility must be available at all times. In the event of an equipment breakdown, alternative equipment must be provided, unless an exemption from the DEQ is granted in writing.

**11.11 Roads.** Roads (public or private) within the facility boundaries or otherwise impacted by facility traffic, must be constructed and maintained to deter, to the maximum extent practical, traffic hazards, dust and mud, and to provide reasonable all-weather access for vehicles using the site. The permittee must use appropriate means, including truck washing as needed, to prevent haul trucks from tracking mud onto external roadways outside the disposal site property boundary. Any truck washing activities must be conducted on an impermeable surface and any disposal of wash water must be done in a manner approved by the DEQ.

**11.12 Legal control of property.** The permittee must maintain legal control of the disposal site property, including maintaining with the property owner a current permit, contract, or agreement, that allows the operation of the facility, if the site is not owned by the permittee.

**11.13 Complaints.** The permittee must investigate and attempt to resolve all complaints received regarding facility operations by doing the following:

- Contact the complainant within 24 hours to discuss the problem;
- Keep a record of the complaint including name and contact information when possible, date complaint was received, date of facility response, description of facility response; and
- Immediately initiate procedures at the facility when possible to resolve the problem identified by the complainant.

For odor, litter or dust complaints, the permittee must report to DEQ as soon as complaints are received at the facility from five different businesses and/or individuals about a given event, or if an odor event lasts longer than 24 hours without resolution or mitigation

## **12.0 CLOSURE AND FINANCIAL ASSURANCE**

**12.1 In this section.** This section describes the following closure and financial assurance conditions for storage of waste tires and for the storage of tire chips or products in storage for longer than six months:

- Conditions for closure;
- Closure plan;
- Closure plan contents;
- Financial assurance;
- Closing the site;

- Notification;
- DEQ review; and
- Submittal address.

**12.2 Conditions for closure.** The permittee must cease to accept waste tires and must immediately close the site if:

- the permittee declares the site closed,
- this permit expires or is revoked and the renewal is not applied for or is denied,
- the Commission issues an order to cease operations, or
- the permit specifies that closure is to begin

**12.3 Closure plan.** The permittee must submit a Closure Plan to the DEQ for approval within 30 days of the declaration that closure is to occur.

**12.4 Closure plan contents.** The Closure Plan must include:

- When and under what circumstances the site will close, including any phase-in of the closure;
- How all waste tires and tire-derived products will be removed from the site or otherwise properly disposed of upon closure;
- A schedule for closure, including the time period for completion; and
- A plan for site rehabilitation, if deemed necessary by the DEQ.

**12.5 Financial assurance.** The permittee must maintain financial assurance acceptable to the DEQ in the amount of \$245,000 for the Storage Site and \$5,000 for the Carrier portion for the duration of the permit. The permittee must notify the DEQ that the financial assurance has been obtained.

Reference: The amount and form of the financial assurance must comply with OAR 340-64-022 and OAR 340-064-055(11).

Note: The amount of financial assurance covers the maximum tire storage limit of 95,000 passenger tire equivalents.

**12.6 Closing the site.** The permittee must close the site in accordance with the approved Closure Plan, and must:

- Close public access to the waste tire storage site for tire storage;
- Post a notice indicating to the public that the site is closed and, if the site had accepted waste tires from the public, indicating the nearest site where waste tires can be deposited;
- Notify the local government of the closing of the site;
- Remove all waste tires and tire-derived products to a waste tire storage site, solid waste disposal site authorized to accept waste tires, or other facility approved by the DEQ; and
- Remove any solid waste to a permitted solid waste disposal site.

**12.7 Notification.** The permittee must notify the DEQ when closure activities are completed.

**12.8 DEQ review.** The DEQ may inspect the storage site after closure is complete. If all procedures have been completed correctly, the DEQ will approve the closure in writing. Any financial assurance not needed for closure will be released to the permittee.

**12.9 Submittal address.** All submittals to the DEQ under this section must be sent to:

Oregon Department of Environmental Quality  
Northwest Region Office  
Solid Waste Program  
700 NE. Multnomah St., Suite 600  
Portland, Oregon 97232  
Email: DEQNWR.SolidWastePermitCoordinator@deq.state.or.us

## ATTACHMENTS

### Attachment 1 -- Operating Plan

#### VEHICLE INFORMATION

Applicant's Name: **Ultimate RB**

##### Regular Fleet

Please provide the following information for each vehicle used under your permit for hauling waste tires. DEQ will issue you two decals to be attached to the front doors of each vehicle.

Vehicle Decal No.	License Plate No./ State/Year Expires	ODOT Authority No.	Vehicle Make/Year	Legal Owner of Vehicle	Declared (Loaded) Weight/Solo/ Combination
	YCCA277	0806080	Freightliner 2000	Ultimate RB	80,000
	YCCY358	0806080	Freightliner 2000	Ultimate RB	80,000
	YAHU928	0806080	Freightliner 2000	Ultimate RB	80,000

Attach additional sheets if necessary.

Adding Vehicles to Your Fleet. If you add additional vehicles to your fleet during the year, you must give DEQ the above information for each vehicle. You must also submit the annual \$25 compliance for each vehicle added. DEQ will issue decals for each vehicle added, which must be attached to the vehicle.

Leased Vehicles for Short-Term Use (Less than 30 Days). **This permit does not allow the use of short-term leased vehicles.**

If, during the term of the permit, you wish to add the use of such vehicles, **you will need to apply for a permit modification** before adding those vehicles to your operation. You must submit the annual compliance fee of \$25 ("short-term leased vehicle fee") with the application. Your waste tire carrier bond or other financial assurance required under OAR 340-64-055(12) must have specific language ensuring that the bond will cover all actions committed by any vehicle leased by the permittee while operating under the permittee's waste tire carrier permit.

The permittee is responsible for ensuring that a leased vehicle complies with OAR 340-064-0055 and 340-064-0063, except that the leased vehicle does not have to obtain a separate waste tire carrier permit pursuant to OAR 340-064-0055(1) while operating under lease to the permittee.

You must keep daily records of all leased vehicles used, including beginning and ending dates used, license numbers, ODOT authority number, ODOT temporary pass or ODOT plate/marker number, and person from whom the vehicle is leased.

Decal Replacement Fee: There is a \$10 fee to replace a decal, which was lost or destroyed.

GENERAL PERMIT  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
STORMWATER DISCHARGE PERMIT  
Department of Environmental Quality  
700 NE Multnomah St., Suite #600 Portland, OR 97232  
Telephone: (503) 229-5630 or 1-800-452-4011 toll free in Oregon  
Issued pursuant to ORS 468B.050 and the Federal Clean Water Act

ISSUED TO: File # 119308

Date Issued: August 30, 2017

RB RECYCLING INC.

MULTNOMAH County

2500 Adie Rd

EPA# ORR607190

Maryland Hts, MO 63043-3525

LLID: 1227618456580

River Mile: 7.756599999999997

Site Location: RB RECYCLING - N BURGARD WAY, 9945 N BURGARD WAY, PORTLAND


SOURCES COVERED UNDER THIS PERMIT:

A facility that may discharge industrial stormwater to surface waters or to conveyance systems that discharge to surface waters of the state and

137. The stormwater is associated with an industrial activity identified in Table 1: Sources Covered or listed in Table 2: Additional Activities Covered; or
138. The facility is notified in writing by the Director that coverage under this permit is required for its stormwater discharges (see Note 1 below).

Note 1:

205. The Director designates the facility as requiring stormwater permit pursuant to 40 CFR §122.26(a)(9)(i)(D).
206. Facilities may apply for conditional exclusion from the requirement to obtain coverage under this permit if there is no exposure of industrial activities and materials to stormwater pursuant to 40 CFR §122.26(g); see Permit Coverage and Exclusion from Coverage.
207. The following are not eligible to obtain coverage under this permit:
- ccv. Construction activities; Primary Standard Industrial Classification codes 2951 and 3273, including mobile asphalt and concrete batch plants; and Standard Industrial Classification code 14, Mining and Quarrying of Nonmetallic Minerals, Except Fuels. These activities are covered under a separate general permit.
  - ccvi. Any source that has obtained an individual NPDES permit for the discharge, unless the source is otherwise eligible for coverage under this permit and DEQ has approved the source's application for coverage under this general permit.
  - ccvii. Any source that discharges to a sanitary sewer system and the discharge is approved by the sanitary sewer operator.

  
Lydia Emer, Administrator  
Operations Division

Issuance Date: August 1, 2017



# Oregon

Kate Brown, Governor

## Department of Environmental Quality

Northwest Region

700 NE Multnomah St Ste 600

Portland, OR 97232-4100

(503) 229-5263

FAX (503) 229-6945

TTY 711

November 6, 2018

Aubree Minten  
Ultimate RB, Inc  
9945 N Burgard Way  
Portland OR 97203 6430

**Re: Renewal of a Simple Air Contaminant Discharge Permit**

Permit No.: 26-9818-SI-01 Application No.: 028365

The Department of Environmental Quality has completed its review and public notice of the renewal application for Ultimate RB, Inc. dba RB Recycling, Inc. The facility is located at 9945 N Burgard Way in Portland, OR. Based on the information in the application, DEQ has issued the enclosed permit.

The effective date of the permit is the date it was signed by the regional Air Quality Manager. The signature and date appears on the first page of the document. The permit is issued pursuant to Oregon Revised Statutes 468A.040 and Oregon Administrative Rules Chapter 340 Division 216.

You may appeal conditions or limitations contained in the attached permit by applying to the Environmental Quality Commission, or its authorized representative, within twenty days from the date of this letter. Appeals are pursuant to ORS Chapter 183 and procedures are found in OAR Chapter 340, Division 11.

A copy of the current permit must be available at the facility at all times. Failure to comply with permit conditions may result in civil penalties. **You are expected to read the permit carefully and comply with all conditions** to protect the environment of Oregon.

If you have any questions, please contact David Graiver at 503-229-5690.

Sincerely,

Matt Hoffman  
DEQ Northwest Region Air Quality Manager

Enclosure  
Cc: HQ/AQ





**SIMPLE**  
**AIR CONTAMINANT DISCHARGE PERMIT**

Department of Environmental Quality  
Northwest Region  
700 NE Multnomah St, Suite 600  
Portland, Oregon 97232  
503-229-5263

This permit is being issued in accordance with the provisions of ORS 468A.040 and  
based on the land use compatibility findings included in the permit record.

**ISSUED TO:**

Ultimate RB, Inc.  
dba RB Recycling, Inc.  
9945 North Burgard Way  
Portland, OR 97203

**INFORMATION RELIED UPON:**

Application No.: 028365  
Date Received: 08/26/2015

**PLANT SITE LOCATION:**

9945 North Burgard Way  
Portland, OR 97203

**LAND USE COMPATIBILITY FINDING:**

Approving Authority: City of Portland  
Approval Date: 11/02/2009

**PERMIT PREVIOUSLY ISSUED TO:**

RB Recycling, Inc.

**ISSUED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY**

  
Matt Hoffman, DEQ Northwest Region Air Quality Manager

11/6/2018  
Dated

Source(s) Permitted to Discharge Air Contaminants (OAR 340-216-8010):

Table 1 Code	Source Description	SIC (NAICS)
Part B, 85	Sources which would have actual emissions of 10 or more tons of any single criteria pollutant if the source were to operate uncontrolled; tire shredding and recycling facility.	5093 (562920)

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## **1.0 GENERAL EMISSION STANDARDS AND LIMITS**

### **1.1. Visible Emissions**

The permittee must comply with the following visible emission limits from air contaminant sources other than fugitive emission sources, as applicable.

- a. Opacity must be measured as a six-minute block average using EPA Method 9, a continuous opacity monitoring system (COMS) installed and operated in accordance with the DEQ Continuous Monitoring Manual or 40 CFR part 60, or an alternative monitoring method approved by DEQ that is equivalent to EPA Method 9.
- b. Emissions from any air contaminant source must not equal or exceed 20% opacity.

### **1.2. Particulate Matter Emissions**

The permittee must comply with the following particulate matter emission limits, as applicable:

- a. Particulate matter emissions from any air contaminant source installed, constructed or modified after April 16, 2015 other than fuel burning equipment and fugitive emission sources must not exceed 0.10 grains per standard cubic foot.
- b. Particulate matter emissions from any air contaminant source installed, constructed, or modified on or after June 1, 1970 but before April 16, 2015 other than fuel burning equipment and fugitive emission sources must not exceed 0.14 grains per dry standard cubic foot.
- c. Non-fugitive particulate matter emissions from any process must not exceed the amount shown in Table 1 of OAR 340-226-0310 for the process weight allocated to such a process.

### **1.3. Fugitive Emissions**

The permittee must take reasonable precautions to prevent fugitive dust emissions, as measured by EPA method 22, by:

- a. Using, where possible, water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land;
- b. Applying water or other suitable chemicals on unpaved roads, materials stockpiles, and other surfaces which can create airborne dusts;
- c. Enclosing (full or partial) materials stockpiles in cases where application of water or other suitable chemicals are not sufficient to prevent particulate matter from becoming airborne;
- d. Installing and using hoods, fans, and fabric filters to enclose and vent the handling of dusty materials;
- e. Installing adequate containment during sandblasting or other similar operations;

- f. Covering, at all times when in motion, open bodied trucks transporting materials likely to become airborne;
- g. Promptly removing earth or other material that does or may become airborne from paved streets; and
- h. Developing a DEQ approved fugitive emission control plan upon request by DEQ if the above precautions are not adequate and implementing the plan whenever fugitive emissions leave the property for more than 18 seconds in a six-minute period.

- 1.4. Particulate Matter Fallout** The permittee must not cause or permit the deposition of any particulate matter larger than 250 microns in size at sufficient duration or quantity, as to create an observable deposition upon the real property of another person.
- 1.5. Nuisance and Odors** The permittee must not cause or allow air contaminants from any source to cause a nuisance. DEQ personnel will verify nuisance conditions.
- 1.6. Operation of Pollution Control Devices and Processes** The permittee must operate and maintain air pollution control devices and emission reduction processes at the highest reasonable efficiency and effectiveness to minimize emissions. Air pollution control devices and components must be in operation and functioning properly at all times when the associated emission source is operating. (OAR 340-226-0120)

## **2.0 SPECIFIC PERFORMANCE AND EMISSION STANDARDS**

- 2.1. Device/Process** Emission Units must be controlled as described in the table below:

<b>Emission Unit</b>	<b>Control Device</b>
10-12" Shredder	N/A
4-6" Shredder	N/A
A Line Tire Shredder	East Baghouse
A Line Tire Granulator 1	
A Line Tire Granulator 2	
A Line Tire Cracker Mill	
B Line Tire Shredder	West Baghouse
B Line Tire Granulator 1	
B Line Tire Granulator 2	
B Line Tire Cracker Mill	

## **3.0 OPERATION AND MAINTENANCE REQUIREMENTS**

- 3.1. Baghouse Operation and Maintenance** The permittee must observe the following baghouse operation and maintenance requirements:

- a. Each baghouse must be equipped with an operational pressure differential indicator.
- b. Pressure differential indicator readings must be recorded at least once each day that the associated baghouse is operating.
- c. The permittee must post the operating differential pressure observed during the most recent valid stack test on each respective fabric filter baghouse at the facility.
- d. The permittee must investigate and commence corrective action measures immediately after an observed excursion of the operating differential pressure range observed during the most recent valid stack test of any fabric filter baghouse.
- e. When replacing fabric filter bags in any baghouse, the permittee must:
  - i. Utilize bags with control efficiency specifications greater than or equal to 99.9% (for particles  $\geq 1$  micron in size) or
  - ii. Perform Oregon Method 5 stack testing within 60 days of bag replacement if a replacement bag has control efficiency specifications less than 99.9% (for particles  $\geq 1$  micron in size).

**3.2. Fugitive Emission Control Plan**

The permittee must submit fugitive emission control plan within 60 days of request by DEQ. The plan must be approved by the DEQ in writing to be valid. The plan must be implemented whenever fugitive emissions leave the property for more than 18 seconds in a six-minute period. The plan must be kept on site at all times and be made available to DEQ upon request.

## **4.0 PLANT SITE EMISSION LIMITS**

**4.1. Plant Site Emission Limits (PSEL)**

The permittee must not cause or allow plant site emissions to exceed the following:

Pollutant	Limit	Units
PM	24	tons per year
PM <sub>10</sub>	14	tons per year
PM <sub>2.5</sub>	9	tons per year

All PM emissions are presumed to be PM<sub>2.5</sub> or smaller (PM = PM<sub>2.5</sub>) unless the permittee performs unique PM source testing that distinguishes particle size distribution.

**4.2. Annual Period**

The annual plant site emissions limits apply to any 12-consecutive calendar month period.

## 5.0 COMPLIANCE DEMONSTRATION AND SOURCE TESTING

- 5.1. Monitoring Requirements** The permittee must monitor the operation and maintenance of the plant and associated air contaminant control devices as follows:

- a. Baghouse operational parameters as described in Condition 3.1.
- b. Quantity of car tires processed
- c. Quantity of truck tires processed

- 5.2. PSEL Compliance Monitoring** The permittee must demonstrate compliance with the PSEL for each 12-consecutive calendar month period based on the following calculation for each pollutant:

$$E = \Sigma(EF \times P)/2000 \text{ lbs}$$

where:

- E = pollutant emissions (ton/yr);  
 EF = pollutant emission factor (see below);  
 P = process production (see below)

Monitored Parameter (P)	Pollutant	Emission Factor (EF)	EF units
No. of car tires recycled	PM, PM <sub>10</sub> , PM <sub>2.5</sub>	0.000033	lb per car tire
No. of truck tires recycled	PM, PM <sub>10</sub> , PM <sub>2.5</sub>	0.00052	lb per truck tire

- 5.3. Emission Factors** The permittee must use the default emission factors provided in Condition 5.2. for calculating pollutant emissions, unless alternative emission factors are approved in writing by DEQ. The permittee may request or DEQ may require using alternative emission factors provided they are based on actual test data or other documentation (e.g., AP-42 compilation of emission factors) that has been reviewed and approved by DEQ.

## 6.0 RECORDKEEPING REQUIREMENTS

- 6.1. Operation and Maintenance** The permittee must maintain the following records related to the operation and maintenance of the plant and associated air contaminant control devices:
- a. Repair and maintenance records;
  - b. Records documenting the engineering design specifications for all baghouses at the facility.

These records must be kept for the life of each control device;

- c. Records documenting the design/performance specifications for all replacement fabric filter bags used in baghouse control devices;
- d. Records of pressure differential reads for each baghouse;
- e. Records of observed baghouse differential pressure range and associated corrective action measures;
- f. Records of actual emission calculations for each month and each 12-consecutive month period;
- g. Records of car tires processed; and
- h. Records of truck tires processed.

**6.2. Excess Emissions**

The permittee must maintain records of excess emissions as defined in OAR 340-214-0300 through 340-214-0340 (recorded on occurrence). Typically, excess emissions are caused by process upsets, startups, shutdowns, or scheduled maintenance. In many cases, excess emissions are evident when visible emissions are greater than 20% opacity as a six-minute block average. If there is an ongoing excess emission caused by an upset or breakdown, the permittee must cease operation of the equipment or facility no later than 48 hours after the beginning of the excess emissions, unless continued operation is approved by DEQ in accordance with OAR 340-214-0330(4).

**6.3. Complaint Log**

The permittee must maintain a log of all written complaints and complaints received via telephone that specifically refer to air pollution concerns associated to the permitted facility. The log must include a record of the permittee's actions to investigate the validity of each complaint and a record of actions taken for complaint resolution.

**6.4. Retention of Records**

Unless otherwise specified, the permittee must retain all records for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application and make them available to DEQ upon request. The permittee must maintain the two (2) most recent years of records onsite.

## **7.0 REPORTING REQUIREMENTS**

**7.1. Excess Emissions**

The permittee must notify DEQ of excess emissions events if the excess emission is of a nature that could endanger public health.

- a. Such notice must be provided as soon as possible, but never more than one hour after becoming aware of the problem. Notice must be made to the regional office identified in Condition 10.0 by e-mail, telephone, facsimile, or in person.
- b. If the excess emissions occur during non-business hours, the permittee must notify DEQ by calling the Oregon Emergency Response System (OERS). The current number is 1-800-452-0311.



- c. The permittee must also submit follow-up reports when required by DEQ.

**7.2. Annual Report**

For each year this permit is in effect, the permittee must submit to DEQ by **February 15** two (2) copies of the following information for the previous calendar year:

- a. Operating parameters:
  - i. The number of hours each tire recycling line operated during the year;
  - ii. Tons of tires processed each month, car and truck;
  - iii. Quantity of car tires processed each month;
  - iv. Quantity of truck tires processed each month.
- b. A summary of 12-consecutive month pollutant emissions determined each month in accordance with Condition 5.2.
- c. Records of all planned and unplanned excess emissions events.
- d. Summary of complaints relating to air quality received by permittee during the year.
- e. List permanent changes made in plant process, production levels, and pollution control equipment affecting air contaminant emissions.
- f. List of major maintenance performed on pollution control equipment.

**7.3. Notice of Change of Ownership or Company Name**

The permittee must notify DEQ in writing using a Departmental "Transfer Application Form" within 60 days after the following:

- a. Legal change of the name of the company as registered with the Corporations Division of the State of Oregon; or
- b. Sale or exchange of the activity or facility.

**7.4. Construction or Modification Notices**

The permittee must notify DEQ in writing using a Departmental "Notice of Intent to Construct Form," or other permit application form and obtain approval in accordance with OAR 340-210-0205 through 340-210-0250 before:

- a. Constructing, installing, or establishing a new stationary source that will cause an increase in any regulated pollutant emissions;
- b. Making any physical change or change in operation of an existing stationary source that will cause an increase, on an hourly basis at full production, in any regulated pollutant emissions; or
- c. Constructing or modifying any air pollution control equipment.

## 8.0 ADMINISTRATIVE REQUIREMENTS

- 8.1. **Permit Renewal Application** The permittee must submit the completed application package for renewal of this permit by no later than 120 days prior to expiration of this permit. The permittee must submit two (2) copies of the application to the DEQ Permit Coordinator listed in Condition 10.2.
- 8.2. **Permit Modifications** The permittee must submit an application for a modification of this permit not less than **60** days prior to the source modification. A special activity fee must be submitted with an application for the permit modification. The fees and two (2) copies of the application must be submitted to the Business Office of DEQ.

## 9.0 FEES

- 9.1. **Annual Compliance Fee** The permittee must pay the Annual Fee specified in OAR 340-216-8020, Table 2, Part 2 for a Simple ACDP by **December 1** of each year this permit is in effect. An invoice indicating the amount, as determined by DEQ regulations, will be mailed prior to the above date. **Late fees in accordance with Part 4 of the table will be assessed as appropriate.**
- 9.2. **Change of Ownership or Company Name Fee** The permittee must pay the non-technical permit modification fee specified in OAR 340-216-8020, Table 2, Part 3(a) with an application for changing the ownership or the name of the company.
- 9.3. **Special Activity Fees** The permittee must pay the special activity fees specified in OAR 340-216-8020, Table 2, Part 3 (b through k) with an application to modify the permit.

## 10.0 DEQ CONTACTS / ADDRESSES

- 10.1. **Business Office** The permittee must submit payments for invoices, applications to modify the permit, and any other payments to DEQ's Business Office:

Department of Environmental Quality  
Accounting / Revenue  
700 NE Multnomah St, Suite 600  
Portland, Oregon 97232

- 10.2. **Permit Coordinator** The permittee must submit all Notices and applications that do not include payment to the Northwest Region's Permit Coordinator:

Northwest Region AQ  
700 NE Multnomah St., Suite 600  
Portland, Oregon 97232  
503-229-5263

**10.3. Report Submittals**

Unless otherwise notified, the permittee must submit all reports (annual reports, source test plans and reports, etc.) to DEQ's Northwest Region. If you know the name of the Air Quality staff member responsible for your permit, please include it.

Northwest Region AQ  
700 NE Multnomah St., Suite 600  
Portland, Oregon 97232  
503-229-5263

**10.4. Web Site**

Information about air quality permits and DEQ's regulations may be obtained from the DEQ web page at [www.oregon.gov/deq](http://www.oregon.gov/deq)

**11.0 GENERAL CONDITIONS AND DISCLAIMERS****11.1. Permitted Activities**

This permit allows the permittee to discharge air contaminants from processes and activities related to the air contaminant source(s) listed on the first page of this permit until this permit expires, is modified, or is revoked.

**11.2. Other Regulations**

In addition to the specific requirements listed in this permit, the permittee must comply with all other legal requirements enforceable by DEQ.

**11.3. Conflicting Conditions**

In any instance in which there is an apparent conflict relative to conditions in this permit, the most stringent conditions apply.

**11.4. Masking of Emissions**

The permittee must not cause or permit the installation of any device or use any means designed to mask the emissions of an air contaminant that causes or is likely to cause detriment to health, safety, or welfare of any person or otherwise violate any other regulation or requirement.

**11.5. DEQ Access**

The permittee must allow DEQ's representatives access to the plant site and pertinent records at all reasonable times for the purposes of performing inspections, surveys, collecting samples, obtaining data, reviewing and copying air contaminant emissions discharge records and conducting all necessary functions related to this permit in accordance with ORS 468-095.

**11.6. Permit Availability**

The permittee must have a copy of the permit available at the facility at all times.

**11.7. Open Burning**

The permittee may not conduct any open burning except as allowed by OAR 340, division 264.

**11.8. Asbestos**

The permittee must comply with the asbestos abatement requirements in OAR 340, Division 248 for all activities involving asbestos-containing materials, including, but not limited to, demolition, renovation, repair, construction, and maintenance.

**11.9. Property Rights**

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges,

nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

**11.10. Permit  
Expiration**

- a. A source may not be operated after the expiration date of the permit, unless any of the following occur prior to the expiration date of the permit:
  - i. A timely and complete application for renewal or for an Oregon Title V Operating Permit has been submitted, or
  - ii. Another type of permit (ACDP or Oregon Title V Operating Permit) has been issued authorizing operation of the source.
- b. For a source operating under an ACDP or Oregon Title V Operating Permit, a requirement established in an earlier ACDP remains in effect notwithstanding expiration of the ACDP, unless the provision expires by its terms or unless the provision is modified or terminated according to the procedures used to establish the requirement initially.

**11.11. Permit  
Termination,  
Revocation,  
or  
Modification**

DEQ may modify or revoke this permit pursuant to OAR 340-216-0082 and 340-216-0084.

## 12.0 ABBREVIATIONS, ACRONYMS, AND DEFINITIONS

ACDP	Air Contaminant Discharge Permit	NSR	New Source Review
ASTM	American Society for Testing and Materials	O <sub>2</sub>	oxygen
AQMA	Air Quality Maintenance Area	OAR	Oregon Administrative Rules
calendar year	The 12-month period beginning January 1st and ending December 31 <sup>st</sup>	ORS	Oregon Revised Statutes
CFR	Code of Federal Regulations	O&M	operation and maintenance
CO	carbon monoxide	Pb	lead
CO <sub>2e</sub>	carbon dioxide equivalent	PCD	pollution control device
DEQ	Oregon Department of Environmental Quality	PM	particulate matter
dscf	dry standard cubic foot	PM <sub>10</sub>	particulate matter less than 10 microns in size
EPA	US Environmental Protection Agency	PM <sub>2.5</sub>	particulate matter less than 2.5 microns in size
FCAA	Federal Clean Air Act	ppm	part per million
Gal	gallon(s)	PSD	Prevention of Significant Deterioration
GHG	greenhouse gas	PSEL	Plant Site Emission Limit
gr/dscf	grains per dry standard cubic foot	PTE	Potential to Emit
HAP	Hazardous Air Pollutant as defined by OAR 340-244-0040	RACT	Reasonably Available Control Technology
I&M	inspection and maintenance	scf	standard cubic foot
lb	pound(s)	SER	Significant Emission Rate
MMBtu	million British thermal units	SIC	Standard Industrial Code
NA	not applicable	SIP	State Implementation Plan
NESHAP	National Emissions Standards for Hazardous Air Pollutants	SO <sub>2</sub>	sulfur dioxide
NO <sub>x</sub>	nitrogen oxides	Special Control Area	as defined in OAR 340-204-0070
NSPS	New Source Performance Standard	VE	visible emissions
		VOC	volatile organic compound
		year	A period consisting of any 12-consecutive calendar months



State of Oregon  
Department of  
Environmental  
Quality

## Simple AIR CONTAMINANT DISCHARGE PERMIT REVIEW REPORT

Department of Environmental Quality  
Northwest Region

### Source Information:

SIC	5093
NAICS	562920

Source Categories (Table 1 Part, code)	B, 85
Public Notice Category	II

### Compliance and Emissions Monitoring Requirements:

FCE	
Compliance schedule	
Unassigned emissions	
Emission credits	
Special Conditions	

Source test [date(s)]	
COMS	
CEMS	
PEMS	
Ambient monitoring	

### Reporting Requirements

Annual report (due date)	February 15
Quarterly report (due dates)	

Monthly report (due dates)	
Excess emissions report	
Other (specify)	

### Air Programs

Synthetic Minor (SM)	X
SM -80	
NSPS (list subparts)	
NESHAP (list subparts)	
Part 68 Risk Management	
CFC	

NSR	
PSD	
RACT	
TACT	
Other (specify)	

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## **PERMITTING**

### PERMITTEE IDENTIFICATION

1. Ultimate RB, Inc.  
9945 N. Burgard Way  
Portland, OR 97203

### PERMITTING ACTION

2. The proposed permit is a renewal of an existing Air Contaminant Discharge Permit (ACDP) that was issued on August 9, 2010, and was originally scheduled to expire on November 1, 2015. The existing ACDP remains in effect until final action is taken on the renewal application because the permittee submitted a timely and complete application for renewal.

### OTHER PERMITS

3. Ultimate RB Inc. dba RB Recycling, Inc. (RB) currently holds the following active DEQ permits:
  - a. Stormwater 1200-Z Permit
  - b. Small Quantity Generator of Hazardous Waste Site Number ORQ000026458
  - c. Waste Tire Carrier/Storage Permit #1411

### ATTAINMENT STATUS

4. RB is located in a maintenance area for CO and O<sub>3</sub> and an attainment area for all other pollutants with a NAAQS.
5. RB is not located within 10 kilometers of any Class I Air Quality Protection Areas.

## **SOURCE DESCRIPTION**

### OVERVIEW

6. RB operates a recycling facility where it produces crumb rubber from used rubber tires. Using mechanical chippers, used tires are successively chipped and ground to ¼ inch size material. The ¼-inch material is then milled to the appropriate size specification. Throughout the process, metal and fabric belt materials from the tires are removed by magnets, cyclonic action, and fiber/dust collection systems. The crumb rubber product is used by the permittee's parent company to make long-term products such as rubber mats and rubber playground tiles. All process equipment at RB is powered via electricity from the grid. The facility was built in 2010.



7. No changes have been made to the facility since the last permit renewal.

#### PROCESS AND CONTROL DEVICES

8. Air contaminant sources at the facility consist of indoor and outdoor processing and a 130 gal diesel fuel tank. The outdoor processing area contains two tire shredders and associated conveyors. These shredders operate in series to reduce whole tires to 10-12" pieces and then to 4-6" pieces before conveying the materials to the indoor processing. The indoor processing consists of two (2) tire recycling lines (A and B). Each line is capable of accepting both truck tires and passenger tires. The lines are sequentially equipped with a shredder (3" minus), two granulators (1" and 1/4" minus), a dual -drive cracker mill (final reduction to crumb rubber/rubber dust), and associated sizing screens/classifiers. Each line includes a dust collection system exhausting to a dedicated Donaldson/RFPW cyclone separator baghouse. The two baghouses are equipped with airlocks and totally enclosed compactors for volume reduction of the filtered baghouse catch.

#### CONTINUOUS MONITORING DEVICES

9. The facility has continuous pressure differential monitors for their baghouses.

### **COMPLIANCE**

10. RB was inspected twice since issuance of their August 9, 2010, ACDP.
  - a. August 16, 2011: On page 2 of the inspection report the box stating "Facility is not in compliance with one or more of the permit conditions described above" was checked but all wording in the report indicated that RB was complying with all applicable permit conditions. RB's file does not include any type of follow up correspondence that would indicate non-compliance (e.g., letter of warning). The content of the inspection report indicates that RB was in compliance with their ACDP and the checkmark appears to be a typo.
  - b. September 28, 2017: RB was observed to be in compliance with their ACDP.
11. During the prior permit period there were no complaints recorded for this facility.
12. No enforcement actions have been taken against this source since the last permit renewal.

## EMISSIONS

### 13. Proposed PSEL information:

Pollutant	Baseline Emission Rate (tons/yr)	Netting Basis		Plant Site Emission Limits (PSEL)		
		Previous (tons/yr)	Proposed (tons/yr)	Previous PSEL (tons/yr)	Proposed PSEL (tons/yr)	PSEL Increase (tons/yr)
PM	0	0	0	24	24	0
PM <sub>10</sub>	0	0	0	14	14	0
PM <sub>2.5</sub>	0	0	0	9	9	0

- The netting basis is zero for Simple ACDPs and portable sources in accordance with OAR 340-222-0040(3).
- The previous PSEL is the PSEL in the last permit.
- For Simple ACDPs, The proposed PSELs for all pollutants are equal to the Generic PSEL in accordance with OAR 340-216-0064(3)(b).
- The PSEL is a federally enforceable limit on the potential to emit.
- All PM emissions exhausted to atmosphere are presumed to be smaller than 2.5  $\mu\text{m}$  in diameter unless the permittee provides a process specific particle size distribution. By assuming all PM is smaller than 2.5  $\mu\text{m}$ , compliance with the PM<sub>2.5</sub> PSEL will demonstrate compliance with the PM<sub>10</sub> and PM PSELs.
- The permittee estimates its maximum annual production to be 3,500,000 tires recycled per year (100,625 tons recycled = 2,100,000 car tires + 1,400,000 truck tires).

### SIGNIFICANT EMISSION RATE ANALYSIS

- For each pollutant, the proposed Plant Site Emission Limit is less than the sum of the Netting Basis and the significant emission rate, thus no further air quality analysis is required.

## TITLE V MAJOR SOURCE APPLICABILITY

- A major source is a facility that has the potential to emit 100 tons/yr or more of any criteria pollutant or 10 tons/yr or more of any single HAP or 25 tons/yr or more of combined HAP. RB is not a major source.

#### CRITERIA POLLUTANTS

16. This facility is a minor source of criteria pollutant emissions. Test data indicates that PM emissions are below major sources levels. VOC and HAP emissions from RB were determined to be below de minimis levels based on data from RB's April 2011 stack test and emission factors for rubber grinding from EPA's AP-42, Section 4.12.

#### HAZARDOUS AIR POLLUTANTS

17. This source is an area source of HAP with emissions below the de minimis thresholds.

### **ADDITIONAL REQUIREMENTS**

#### NSPS APPLICABILITY

18. There are no sources at this facility for which NSPS standards have been promulgated.

#### NESHAPS/MACT APPLICABILITY

19. There are no sources at this facility for which NESHAPS/MACT standards have been promulgated.

#### RACT APPLICABILITY

20. RB is located in the Portland AQMA, but it is not one of the listed source categories in OAR 340-232-0010, thus the RACT rules do not apply

#### TACT APPLICABILITY

21. A TACT analysis was never completed for RB. RB does not have any documented nuisance conditions so there is currently not a need to evaluate TACT. However, RB is likely meeting the State's TACT/Highest and Best Rules for PM by capturing the PM emissions generated by its processes and filtering the emissions from exhaust gases using fabric filter (baghouse) pollution control devices.

## SOURCE TESTING

### PRIOR TESTING RESULTS

22. The results of the most recent source tests are listed below:

Emission Device	Test Date	Production Rate	Pollutant	Measured Value
East Baghouse	4/5/2011	121 Truck Tire/hr	Filterable PM <sub>10</sub>	0.063 lb/hr
				0.00052 lb/tire
West Baghouse	4/6/2011	591 Car Tire/hr	Filterable PM <sub>10</sub>	0.020 lb/hr
				0.000033 lb/tire

### PROPOSED TESTING

23. The renewal ACDP will not require any performance testing. However, RB is free to perform testing to determine the PM<sub>10</sub> and PM<sub>2.5</sub> fractions of their PM emissions.

## PUBLIC NOTICE

24. Pursuant to OAR 340-216-0064(3)(a), issuance of Simple Air Contaminant Discharge Permits require public notice in accordance with OAR 340-209-0030(3)(b), which requires DEQ to provide notice of the proposed permit action and a minimum of 30 days for interested persons to submit written comments. **The public notice was emailed/mailed on Tuesday October 2, 2018 and the comment period ended on Monday November 5, 2018 at 5 p.m.**

- No comments were received during the public notice. The Simple Air Contaminant Discharge Permit for Ultimate RB, Inc dba RB Recycling, Inc. located at 9945 N Burgard Way in Portland, OR. is issued as proposed.

dg:lb  
Document1



# Summation of Car and Truck Tire PTE



## Truck Tires

[A] Tire Throughput (lb/hr)	12,120
[B] Tested PM Rate (lb/hr)	0.063
[C] Control Efficiency	99.90% Minimum baghouse control efficiency (Condition 3.1.e.i.)
[D] Pre Control PM Rate	63 $[D] = [B] / (1-[C])$
[E] Mass Lost (lb/hr)	115.54 $[E] = [D] / \text{PM EF}$
[F] Avg Tire weight (lb)	100.17 From April 2011 Stack Test
[G] Mass Lost (lb/lb tire)	9.53E-03 $[G] = [E] / [A]$
[H] Max Tire Throughput	1,400,000 From Application
[I] Max Capacity (ton/yr)	70,116 $[I] = [H] \times [F] / 2,000$
[J] Mass Lost (ton/yr)	668.43 $[J] = [I] \times [G]$

Emission Factor is lb Pollutant/lb tire lost in the grinding process

	EF	PTE (lb/hr)	PTE (ton/yr)
Total VOC	5.21E-04	6.02E-02	0.35
Total HAPs	1.27E-04	1.46E-02	8.46E-02
Total Particulate Matter	5.45E-01	63.00	364.46

AP-42 Chapter 4.12, Rubber Grinding - Carcass 30800152

## Car Tires

[A] Tire Throughput (lb/hr)	12,951
[B] Tested PM Rate (lb/hr)	0.02
[C] Control Efficiency	99.90% Minimum baghouse control efficiency (Condition 3.1.e.i.)
[D] Pre Control PM Rate	20 $[D] = [B] / (1-[C])$
[E] Mass Lost (lb/hr)	36.68 $[E] = [D] / \text{PM EF}$
[F] Avg Tire weight (lb)	21.91 From April 2011 Stack Test
[G] Mass Lost (lb/lb tire)	2.83E-03 $[G] = [E] / [A]$
[H] Max Tire Throughput	2,100,000 From Application
[I] Max Capacity (ton/yr)	23,009 $[I] = [H] \times [F] / 2,000$
[J] Mass Lost (ton/yr)	65.17 $[J] = [I] \times [G]$

Emission Factor is lb Pollutant/lb tire lost in the grinding process

	EF	PTE (lb/hr)	PTE (ton/yr)
Total VOC	5.21E-04	1.91E-02	3.40E-02
Total HAPs	1.27E-04	4.64E-03	8.25E-03
Total Particulate Matter	5.45E-01	20.00	35.53

AP-42 Chapter 4.12, Rubber Grinding - Carcass 30800152

## Summation of Car and Truck Tire PTE Prior to Controls

PTE	lb/hr	ton/yr
Total VOC	7.94E-02	0.38
Total HAPs	1.93E-02	9.28E-02
Total Particulate Matter	83.00	400.00





## **SCRAP TIRE COLLECTIONS**

Voice: 503-283-2261

Fax: 503-283-2498

9945 N. Burgard Way, Portland, OR 97203

**To our valued customers:**

**Effective, July 1<sup>st</sup>, 2018, our disposal charges to accept scrap tires will be adjusted as follows:**

<b>Passenger &amp; Light Truck</b>	<b>off rim</b>	<b>\$ 2.00</b>
<b>Passenger &amp; Light Truck</b>	<b>on rim</b>	<b>\$ 4.00</b>
<b>Semi-Truck</b>	<b>off rim</b>	<b>\$ 6.00</b>
<b>Semi-Truck</b>	<b>on rim</b>	<b>\$ 28.00</b>
<b>Duplex</b>		<b>\$ 22.00</b>
<b>Passenger Solids</b>		<b>\$ 225.00/TON</b>
<b>Truck Solids</b>		<b>\$ 225.00/TON</b>
<b>Tubes, Flaps, Liners</b>		<b>\$ 1.00</b>
<b>Motorcycle Tires</b>		<b>\$ 1.00</b>
<b>Oversized Tires</b>		<b>\$ 225.00/TON</b>

**We are in the process of adjusting our facility to produce an all black rubber product.**

**We appreciate your patronage,**

***The Ultimate RB Team***

**RA-01-F01-0508**