November 4, 2024

Public

Director
Environmental Approvals Branch
Manitoba Environment and Climate
14 Fultz Boulevard
Winnipeg, MB R3Y 0L6

Subject: Environment Act Proposal - Heidelberg Materials Canada Limited, 2520 Ferrier Street, Winnipeg

Dear Madam/Sir:

WSP Canada Inc. (WSP) has been retained by the Heidelberg Materials Canada Limited to complete an Environment Act Proposal (EAP) in support of a concrete pipe and pre-cast plant located at 2520 Ferrier Street, Winnipeg, MB. As per the *Classes of Development Regulation* under *The Environment Act*, we understand that this project would be considered a Class 2 Development.

An electronic copy (as a searchable .pdf file) of the EAP document was submitted via email on November 4, 2024, via email. Included here is the application fee for $7,500.00 as required for an EAP submission for a Class 2 Development.

If you have any questions or concerns about this submission, please contact the undersigned at your convenience.

Yours sincerely,

[redacted]
Darren Keam, M.Sc., P.Ag.
Group Manager, Earth &
Environment

DK/ds

cc: William McDougall (Heidelberg Materials)

Encl. Heidelberg Environment Act Proposal
WSP ref.: CA0024497.6396

1600 Buffalo Place
Winnipeg, MB
Canada R3T 6B8

T: +1 204 477-6650
F: +1 204 474-2864
wsp.com

Click here to enter text.

Environment Act Proposal Form

Manitoba

Name of the development:
Heidelberg Materials Concrete Pipe Plant

Type of development per Classes of Development Regulation (Manitoba Regulation 164/88):
Class 2

Legal name of the applicant:
Heidelberg Materials Canada Limited

Mailing address of the applicant: 2520 Ferrier Street

Contact Person: William McDougall

City: Winnipeg Province: MB Postal Code: R2V 4P6

Phone Number: (204) 688-3920 Fax: email: william.mcdougall@heidelbergmaterials.

Location of the development: Winnipeg

Contact Person: William McDougall

Street Address: 2520 Ferrier Street

Legal Description: Plan 15701, Lot 3, Plan 33206

City/Town: Winnipeg Province: MB Postal Code: R2V 4P6

Phone Number: (204) 688-3920 Fax: email: william.mcdougall@heidelbergmaterials.

Name of proponent contact person for purposes of the environmental assessment:
Darren Keam, MSc., P.Ag. Earth & Environment, WSP Canada

Phone: (204) 259-1488
Fax:

Mailing address: 1600 Buffalo Place, Wpg, MB R3T 6B9

Email address: darren.keam@wsp.com

Webpage address: WSP.com

Date:

Signature of proponent, or corporate principal of corporate proponent:
[redacted]

Printed name: William McDougall

PRINT RESET

A complete **Environment Act Proposal (EAP)** consists of the following components:

- ☑ **Cover letter**
- ☑ **Environment Act Proposal Form**
- ☑ **Reports/plans supporting the EAP** (see "Information Bulletin - Environment Act Proposal Report Guidelines" for required information)
- ☑ **Application fee** (Cheque, payable to Minister of Finance, for the appropriate fee)

Per Environment Act Fees Regulation (Manitoba Regulation 168/96):

Class 1 Developments	$1,000
Class 2 Developments	$7,500
Class 3 Developments:	
Transportation and Transmission Lines	$10,000
Water Developments	$60,000
Energy and Mining	$120,000

Submit the complete EAP to:
Director
Environmental Approvals Branch
Environment and Climate Change
Box 35, 14 Fultz Boulevard
Winnipeg MB R3Y 0L6
EABDirector@gov.mb.ca

For more information:
Toll-Free: 1-800-282-8069
Phone: 204-945-8321
Fax: 204-945-5229

https://www.gov.mb.ca/sd/permits_licenses_approvals/eal/licence/index.html

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$7,500.....C2 B-02
$10,000....TT B-02
$60,000.....WD B-02
$120,000...EM B-02

HEIDELBERG MATERIALS CANADA LIMITED

ENVIRONMENT ACT PROPOSAL

2520 FERRIER STREET, WINNIPEG, MB

OCTOBER 18, 2024

WSP CANADA INC.
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
R3T 6B8 CANADA

TEL: 1+ 204-477-6650
WSP.COM

WSP PROJECT NO. CA0024497.6396

SIGNATURES

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Bradley Novecosky, MA
Senior Principal, Saskatchewan

PREPARED FOR:
Heidelberg Materials Canada Ltd.
2520 Ferrier Street, Winnipeg, Manitoba, R2V 4P6

WSP prepared this report solely for the use of the intended recipient, Heidelberg Materials Canada Limited, in accordance with the professional services agreement between the parties. In the event a contract has not been executed, the parties agree that the WSP General Terms for Consultant shall govern their business relationship which was provided to you prior to the preparation of this report.

The report is intended to be used in its entirety. No excerpts may be taken to be representative of the findings in the assessment.

The conclusions presented in this report are based on work performed by trained, professional and technical staff, in accordance with their reasonable interpretation of current and accepted engineering and scientific practices at the time the work was performed.

The content and opinions contained in the present report are based on the observations and/or information available to WSP at the time of preparation, using investigation techniques and engineering analysis methods consistent with those ordinarily exercised by WSP and other engineering/scientific practitioners working under similar conditions, and subject to the same time, financial and physical constraints applicable to this project.

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This limitations statement is considered an integral part of this report.

EXECUTIVE SUMMARY

WSP Canada (WSP) was retained by Heidelberg Materials Canada Limited (Heidelberg) to complete an Environment Act Proposal. This Environment Act Proposal is submitted to the Manitoba Environment and Climate Change, Environmental Approvals Branch, as required under t*he Environment Act* of Manitoba for the purposes of obtaining a Class 2 Environment Act Licence in support of a concrete pipe and pre-cast concrete plant (the "Plant").

Heidelberg's Plant is located at 2520 Ferrier Street, Winnipeg, Manitoba (here referred to as the "Site") within the West Kildonan Industrial Park. The Site is approximately 7.32 ha situated on Plan Number 15701, Lot 3, Plan 33206. The Plant has been in operation since 1976.

On-site, there is the main plant building with several outbuildings consisting of cold storage, maintenance building, steel storage building, gasket storage building and tipping building. The yard site is gravelled and is used primarily for the storage of manufactured concrete pipe (various sizes), limestone gravel and sand stockpiles, parking, and miscellaneous storage. The hours of operation are from 07:00 hrs to 15:30 hrs.

The existing Site is located within the West Kildonan Industrial Park within the City of Winnipeg. The Site is bound on the east side by Ferrier Road, on the north side by undeveloped green space designated for the Chief Peguis Trail extension, and on the west and south sides by Armtec Manufacturing Multi-Crete Systems (also a pre-cast concrete plant). Within the West Kildonan Industrial Park, a small residential community development (Aurora at North Point) has been developed north of the Chief Peguis Trail extension and approximately 200 m north and northwest of the Site. Immediately south of the West Kildonan Industrial Park is the Templeton-Sinclair residential development.

Heidelberg is submitting this Environment Act Proposal to ensure compliance with the regulatory requirements of Manitoba and in good faith as a corporate citizen of Manitoba. The Plant manufactures concrete pipes of various sizes, primarily for sanitary and stormwater sewer systems. The Plant and Site operations have environmental effects primarily relating to dust; however, through on-site physical mitigations, best management practices, good housekeeping practices and the implementation of the corporate Environmental Management Plan, these environmental effects are mitigated, leaving negligible residual environmental effects relative to existing baseline conditions.

TABLE OF CONTENTS

TABLES (IN REPORT BODY)

APPENDICES

1 INTRODUCTION

WSP Canada (WSP) was retained by Heidelberg Materials Canada Limited (Heidelberg) to complete an Environment Act Proposal (EAP). This EAP is submitted to the Manitoba Environment and Climate Change (MECC), Environmental Approvals Branch (EAB), as required under the Manitoba *Environment Act* for the purposes of obtaining a Class 2 Environment Act Licence (EAL) in support of a concrete pipe and pre-cast plant (the "Plant").

As a requirement of the Manitoba *Environment Act*, this EAP outlines the development, the existing biophysical and socio-economic environments, potential environmental effects associated with the development, mitigation measures to avoid/minimize potential effects, Heidelberg's emergency response plan, current monitoring and reporting, and overall conclusions.

1.1 Proponent

The proponent for this EAP is Heidelberg Materials Canada Limited and the EAP has been approved by the Plant Superintendent, William McDougall of Heidelberg.

Heidelberg Materials Canada Limited
2520 Ferrier Street
Winnipeg, MB, R2V 4P6

1.2 Location

Heidelberg's Plant is located at 2520 Ferrier Street, Winnipeg, Manitoba (here referred to as the "Site") within the West Kildonan Industrial Park. The Site is approximately 7.32 ha situated on Plan Number 15701, Lot 3, Plan 33206 (Figure 1, **Appendix A**). The Plant has been in operation since 1976.

On-site, there are several buildings including the main plant building (3,140 m^2 or 33,800 ft^2 in size) with several outbuildings consisting of cold storage (251 m^2 [2,700 ft^2]), maintenance building (297 m^2 [3,200 ft^2]), steel storage building (200 m^2 [2,150 ft^2]), gasket storage building (84 m^2 [900 ft^2]), and tipping building (520 m^2 [5,600 ft^2]) (Figure 2, **Appendix A**). The yard site is gravelled and is used primarily for the storage of manufactured concrete pipe (various sizes), limestone gravel and sand stockpiles, parking, and miscellaneous storage. The hours of operation are from 07:00 hrs to 15:30 hrs.

2 DESCRIPTION OF DEVELOPMENT

Heidelberg manufactures concrete pipe, primarily for sanitary and storm water sewer systems. A summary of the manufacturing process is described below. Photos of the various aspects of the Site operations are included in **Appendix C**.

- Resources of limestone gravel and sand are delivered to the Site by transport truck and stockpiled in defined cells made of culled concrete pipes (refer to Photos 2, 3 & 16).
- Resources of cement and fly ash are delivered by bulk transport truck, and air lifted from the truck to storage tanks within the conveyor tower over top of the plant building. The air lift system includes an air filter system that is monitored and replaced if required on a monthly basis (refer to Photo 1).

- To create a concrete batch, a rubber-tired tractor loader loads the gravel aggregate and sand into a hopper bin where it is then transported up the open-air conveyor to the tower, where it is then scaled in a hopper to be blended with cement and fly ash to proprietary blends for the concrete batch.
- Added to the cement mix are liquid additives through the blending process. The additives are housed in two – 2,500 L tanks and one – 205 L drum (refer to Photos 9 and 10). The two tanks and one drum are in the centre of the Plant adjacent to the cement blending tank on 200 L containment trays. The two tanks are refilled twice annually via an external transfer hose from the delivery truck. The three additives are:
  - MasterSet AC534 Admixture (by BASF) – is a patented, ready-to-use, liquid admixture to accelerate the time of setting and to increase early concrete strengths.
  - MasterGlenium 7700 (by BASF) – is a high-range water admixture that is particularly effective in improving the day-to-day consistency of concrete mixtures.
  - MasterAir AE 200 (by Master Builders) – is an air entraining admixture that provides concrete with extra protection by creating air bubbles that are ultra-stable, small and closely spaced, useful in the types of concrete known for their difficulty to entrain and maintain the desired air content.
- The newly made concrete is then conveyed to five different molding stations:
  - Small diameter pipe (Flexomatic)
  - Pre-bench station (Wet Cast concrete)
  - Medium diameter pipe (Simplex)
  - MCP (Accessory concrete parts (lids and parts)
  - Large diameter pipe (VUP) (refer to Photo 7)
- The rebar steel mesh for the concrete pipe is manufactured on-site at the welding station within the Plant. The welding station is in open air and completed by arc welding. Little waste is generated at this station (refer to Photo 8).
- Selected manufactured pipe that require access ports goes to a wash bay where the access ports are cut into the pipe with a high-pressure washer that cuts the concrete with a turbo tip (refer to Photos 11 and 12). The generated slurry drains to an in-floor drainage channel and then is held in a holding tank. The slurry is treated with hydrochloric acid to manage pH (refer to Photo 13). The treated industrial wastewater from this holding tank is then released to the external process effluent holding tank (**Appendix A**, Figure 2 and refer to Photo 15). See Section 3.11 for further details.
- Each of the manufactured concrete pipes will then be placed in a drying kiln to steam cure. The curing cycle is approximately 2 hours at 30^{o}C, 7 hours at 50^{o}C and then 2 hours to cool down with the heat being vented to the exterior of the building. The boiler that generates the steam for the kiln burns natural gas (refer to Photo 14).
- Following the kiln and curing, the finalized pipes are then transported to the tipping building for quality control checks, patching and marking (if necessary). From the tipping building, they are then stockpiled in the yard and/or transported to the end use location (refer to Photo 6).
- Connecting from the Plant to the aggregate hopper at the base of the conveyor, there is a small diameter tunnel (~ 2 m diameter) that conveys steam pipes, water pipes and electrical cables between the two structures. This tunnel has restricted access as it is considered a confined space.

In 2023, the Plant resourced approximately 6,200 tons of gravel, 7,000 tons of sand, 2,000 tons of cement, 300 tons of flyash and 2,300 tons of steel.

2.1.1 Plant Boiler

The primary source for heating at the Plant is a Cleaver Brooks CB Packaged Boiler. The boiler is serviced annually by a qualified technician and was last inspected September 10, 2023. Specifications of the boiler are as follows:

Model: CB-200-500	Pressure: 15 PSI
Serial Number: S-61887	Input: 20922000 BTU/HR
Installation Date: 8/26/76	Exhaust: Chimney Pipe

2.2 Project Need, Purpose and Alternatives

The Plant has been in operation since 1976, predating the Manitoba *Environment Act* and as such, has not been operating under an EAL. Heidelberg is submitting this EAP to ensure compliance with regulatory requirements of the Act, and in good faith as a corporate citizen of Manitoba.

As the development is an operational concrete pipe and pre-cast manufacturing plant there are no alternatives to the development.

2.3 Land Ownership

The registered owner of the property is Lehigh Hanson Materials Limited as per Title Number: 2491509/1 and described as Lot 3, Plan 33206 WLTO in River Lots 23 and 24 Parish of Kildonan.

3 EXISTING BIOPHYSICAL ENVIRONMENT

The existing Site is located within the West Kildonan Industrial Park within the City of Winnipeg. The Site is bound on the east side by Ferrier Road, on the north side by undeveloped green space designated for the Chief Peguis Trail extension, and on the west and south side by a Armtec Manufacturing Multi-Crete Systems (also a pre-cast concrete plant). Within the West Kildonan Industrial Park, a small residential community development (Aurora at North Point) has been developed north of the Chief Peguis Trail extension and approximately 200 m north and northwest of the Site. Immediately south of the West Kildonan Industrial Park is the Templeton-Sinclair residential development.

3.1 Existing Land Use

The existing Site has been operating since 1976 as an industrial concrete pipe and pre-cast concrete plant and the City of Winnipeg identifies the property as “Industrial Heavy Manufacturing.” Currently, there are no plans to expand the existing footprint of the Site.

3.2 Ecological Classification

The Site is located within the Winnipeg Ecodistrict of the Lake Manitoba Plains Ecoregion, which is covered by the broader Prairie Ecozone. The Winnipeg Ecodistrict is dominated by cool to cold, subhumid to humid moisture conditions and is located within the southern portion of the Grassland Transition Ecoclimatic Region (Smith et al. 1988). The general geology within the Lake Manitoba Plains Ecoregion includes Paleozoic limestone bedrock which is overlain by glacial tills and Lake Agassiz deposited silts and clays. The soils in the area are developed on glaciolacustrine sediments and are primarily imperfectly drained Gleyed Humic Vertisols and Gleyed Vertic Black Chernozems (Smith et al. 1988).

Tall grass prairie and meadow prairie vegetation originally found within the Winnipeg Ecodistrict has largely been replaced due to agricultural activities, altered drainage patterns and urban development. Tree cover was historically minimal in the Ecodistrict but continues to be found primarily along stream channels and in pockets further away from channels where sites are better drained. These improved drainage sites often include tree species such as bur oak and trembling aspen and understory species of snowberry, hazelnut and red-osier dogwood (Smith et al. 1988).

3.3 Climate

Climate for the Site can be characterized by review of climate normal data (years 1981 to 2010) from the Environment Canada representative climate station located at the Winnipeg Richardson International Airport. This station is located at Latitude 49°55'00.000"N and Longitude 97°14'00.000"W at an elevation of 238.70 metres above mean sea level. This station also meets the United Nations World Meteorological Organization standards. Based on the Environment Canada climate normal data, the temperature in the region is below freezing between November and March. The mean daily temperature in the region is approximately 3.0°C; the coldest month from the record is January, with a daily average temperature of -16.4°C, while the warmest month is July, with a daily average temperature of 19.7°C. Mean annual precipitation (snowfall and rainfall) is approximately 521.1 mm. Snowfall accounts for approximately 22% of the precipitation total. Winds are predominantly from the south, averaging approximately 17.1 km per hour during the year (Government of Canada, 2024).

3.4 Air Quality and Noise

In Manitoba, air quality concerns are generally localized in nature and typically relate to odour, noise and air pollution. Air quality in Winnipeg is generally considered to be excellent compared to other Canadian cities of similar size (Government of Manitoba, 1995). Air quality in Winnipeg is monitored hourly at two stations by MECC as part of the National Air Pollution Surveillance Program. Maximum time-based pollutant levels for the protection and preservation of ambient air quality in Manitoba including carbon monoxide (CO), soiling index (COH), inhalable particulates (particulate matter ≤ 10 microns [PM_{10}] and particulate matter ≤ 2.5 microns [$PM_{2.5}$]), ground level ozone (O_3), nitrogen oxides (NO_x), sulphur dioxide (SO_2), wind direction, and wind speed are each measured and then converted to an indexed scale. The highest measured pollutant value of the five becomes the overall value of the reported Air Quality Index. This information is then used to inform the public of any current air quality concerns (Government of Manitoba, 1995).

3.5 Greenhouse Gases

The Plant primary sources of energy are natural gas to heat the boiler and provide heating to the Plant, diesel fuel for the operation of rubber tire loaders and forklifts and electricity for all other services. The most prevalent greenhouse gases (GHGs) are carbon dioxide (CO_2), methane (CH_4) and nitrous oxide (N_2O). GHG emissions were estimated using emission factors taken from the National Inventory Report (National inventory report: greenhouse gas sources and sinks in Canada.: En81-4E-PDF - Government of Canada Publications - Canada.ca) as shown in Table 1.

Determination of GHG emission quantities is based on the consumption of 8,348 L of clear diesel and 10,917.883 Million British Thermal Units (MMBTU) of Natural Gas in 2023. All GHG emissions were converted to CO_2 equivalent (CO_{2e}) using global warming potentials. The estimated GHG emissions are summarized in Table 2.

Table 1. Emission Factors

	EMISSION FACTORS				
FUEL TYPES	**CO_2**	**CH_4**	**N_2O**	**CO_2e**	**UNITS**
Natural Gas	1,915	0.037	0.033	1,924.8	g/m^3
Diesel	2,680.5	0.1	0.2	2,742.7	g/L

Table 2. Reported Consumed Fuels at the Plant in 2023 and the equivalent Carbon Dioxide Emissions

		EMISSIONS (TONNES)			
FUEL TYPES	**CONSUMPTION**	**CO_2**	**CH_4**	**N_2O**	**CO_2E**
Natural Gas	10,917.88 MMBTU	585.12	0.0113	0.0101	588.10
Diesel	8,348 L	22.38	0.001	0.002	22.90
Total		**607.49**	**0.01**	**0.01**	**611.00**

3.6 Soil and Terrain

Soils of the Site and area consist primarily of Osborne Clay and Scanterbury. The Osborne series consists of poorly drained Rego Humic Glysols soils developed on moderately to strongly calcareous, deep uniform, clayey lacustrine deposits. The Osborne soil occurs in lower to depressional positions of level to nearly level landscapes and has a very slow permeability, slow to very slow surface runoff and a high-water table during the growing season. Osborne soils occur in close association with Red River, Morris and Scanterbury soils, and they are similar by having developed on the same parent material but differ because of poorer drainage. The Scanterbury series is a Glayed Black Chernozem soils developed on imperfectly drained, moderately to strongly calcareous, clayey lacustrine deposits. The Scanterbury soils occur on level to very gently sloping topography on the Red River Plain. Surface runoff is slow, and permeability is very slow (Manitoba Agri-Maps, Manitoba Agriculture | Province of Manitoba (gov.mb.ca), accessed August 11, 2024).

3.7 Surficial and Bedrock Geology

The surficial geology in the region consists of offshore glaciolacustrine sediments of clay to silty clay with some minor sand from the quaternary period. The deposits are 1 to 20 m thick and were deposited in offshore, deep water of glacial Lake Agassiz. It is reported that these deposits were often scoured by icebergs (Matile and Keller, 2004).

Bedrock in the region consists primarily of the Red River formation with the most westerly portions of the study location consisting of the Stony Mountain formation, both of which are from the Ordovician period. The Red River formation consists of the Selkirk member from Main Street, west, to approximately McPhillips Street. The Selkirk member consists of fossiliferous dolomitic limestone with an abundance of chert nodules in the upper limestone layer. It is reached at approximate depths of 15-30 m below ground surface. The upper and lower Fort Gary Member, also of the Red River formation, extends from McPhillips Street to approximately west of King Edward Street. The lower Fort Garry member consists of aphanic dolomite, while the upper Fort Garry member consists primarily of partly cherty dolomite with variably thick limestone beds near the base and at the top of the sub-unit. Depth to bedrock in this area is approximately 15 to 30 m. The westernmost portion of the Site consists of the Gunn Member of the Stony Mountain Formation. This formation consists of fossiliferous, calcareous, red and purple shales with thin limestone interbeds and is found at depths between 6 and 15 m (Bannatyne 1988).

3.8 Groundwater

The Site is located approximately 230 to 240 metres above sea level (masl). Review of the topographic map (NTS Sheet 062H14) for the Site indicates a regional down-gradient flow (anticipated shallow groundwater flow direction) to the east, towards the Red River (Natural Resources Canada).

The Winnipeg area is underlain by an extensive, confined carbonate rock aquifer known as the Upper Carbonate aquifer that is located within the top 15 to 30 m of the Paleozoic limestones and dolomites. This aquifer was historically important as a potable water source during the early development of Winnipeg (Render, 1970). The transmissivity of this aquifer ranges from under 25 to over 2,500 m^2/day. A smaller, minor aquifer known as the Lower Carbonate aquifer occurs within the bottom 7.5 to 15 m of the Red River Formation (Render 1970).

A water well database search was conducted through the MSD GWDrill (2022) database for the Site on August 12, 2024. The search was conducted using river lot and outer two-mile lot numbers as well as legal land descriptions with a 1-km radius of the Site. There are 31 wells identified consisting of domestic, commercial/industrial and earth energy groundwater wells. Five are identified as active, five are identified as sealed and the balance (21) are of unknown well status. A copy of the GWDrill groundwater well log findings is in **Appendix B**.

3.9 Vegetation and Wildlife

The Site is approximately 7.32 ha in size and is fully gravelled over and has several established buildings; essentially, the Site is not vegetated and is established with a perimeter fence, not permitting wildlife access to the property.

3.10 Surface Water and Aquatic Habitat

There are no surface water bodies including rivers, creek, lakes or ponds within the general area of the Site. The Red River is located 1.55 km east of the Site. Surface water bodies that exist within the area surrounding area are confined to storm water management facilities in existing surrounding neighbourhoods.

Meltwater and stormwater drainage on Site is generally directed to the drainage pathways along the south, north and east sides of the property or pools on-site until it dries. Meltwater and stormwater is not tested as it exits the Site, as the majority of the Site is a gravelled surface.

3.11 Municipal Water, Wastewater and Solid Waste Management

The Site is supplied by City of Winnipeg municipal water for all aspects of water requirements at the Plant including concrete production, concrete pipe design requirements (cutting of ports) and domestic use. The Plant used approximately 9,019 m^3 of water in 2023.

All industrial wastewater on-site is directed towards a newly installed (2023) process effluent tanks with a design total volume of 56.2 m^3 and a usable space of 47.91 m^3. The industrial wastewater is hauled away periodically by a licenced wastewater hauler, GFL Environmental. The industrial wastewater is then directed to the Winnipeg North End Sewage Treatment Plant. In a letter dated November 29, 2023, the City of Winnipeg has indicated that under Sewer By-law No. 106/2018 a Pollution Prevention Plan is no longer required and will monitor received wastewater (**Appendix C**).

Domestic wastewater from the office is directed to the on-site septic storage tank (**Appendix A**, Figure 2). Domestic waste (office) is placed into commercial garbage bins and picked up by a licenced waste hauler on a weekly schedule.

There is limited hazardous waste generated on-site. Hazardous waste that is generated is limited to used oil, antifreeze and batteries due to heavy equipment maintenance. This hazardous waste material is stored in drums on spill containment pallets and removed by a licenced waste hauler monthly.

4 SOCIOECONOMIC ENVIRONMENT

4.1 Existing Public Safety and Health Risks

Public safety and health risks associated with the Site are low due to the property being fenced around the entire perimeter with the only public access to the Site at the main entrance of Ferrier Road.

4.2 Parks, Open Spaces, and Trails

Within 500 m of the Site, the City of Winnipeg does not identify any parks and open spaces. Within 1,000 m of the Site, the City of Winnipeg has identified eight parks or open spaces and four future parks or open spaces within the Aurora at North Point community (Winnipeg Parks, accessed August 11, 2024).

Table 3. Parks and Open Spaces Near the Site

PARK / OPEN SPACE	EXISTING / FUTURE	ADDRESS AND AREA
Ambassador Park	Existing	179 Ambassador Row (0.26 ha)
Atlas Park	Future	294 Atlas Cres. (0.45 ha)
Attache Park	Existing	50 Ambassador Row (0.46 ha)
Aurora Park	Existing	285 North Point Blvd (1.66 ha)
Beecher Tot Lot	Existing	619 Beecher Ave. (0.12 ha)

PARK / OPEN SPACE	EXISTING / FUTURE	ADDRESS AND AREA
Beryl Watts Park / Vince Leah CC	Existing	1295 Salter St. (12.9 ha)
Birchbark Bay Park	Existing	117 Birchbark Bay (0.37 ha)
Gateside-Murray Buffer	Existing	NE Corner of Murray Ave. & Gateside St. (0.03 ha)
Margaret-Southall Greenspace	Existing	390 Margaret Ave. (0.14 ha)
North Point Park	Future	260 North Point Blvd. (4.35 ha)
Orion Crescent Walk	Future	126 Orion Cres. (0.04 ha)
Orion Park	Future	395 North Point Blvd. (2.32 ha)

4.3 Heritage Resources

As the Site has been developed and operational since 1976. As a result, no submission to the Manitoba Heritage Branch has been completed.

4.4 Indigenous and Métis Communities

There are no Indigenous and Red River Métis communities located adjacent or neighbouring the Site.

4.5 Economic Contribution and Employment

Heidelberg employs 19 full-time staff at the Site and manufactures concrete pipe year-round, producing 15,000 tons of pipe annually contributing to the local economic market in a significant manner. All the stone and sand are purchased locally. The Plant services the Manitoba, Saskatchewan and Western Ontario markets with their concrete product.

5 DESCRIPTION OF POTENTIAL ENVIRONMENTAL EFFECTS AND MITIGATIONS

Outlined in Table 4 are key Plant operations, identification of the Environmental Effects due to the operations and a summary of the applied mitigation measures by Heidelberg at the Site.

Table 4. Plant and Site Operations, Environmental Effects, Mitigation Measures

PLANT AND SITE OPERATION	ENVIRONMENTAL EFFECTS	MITIGATION MEASURES
Aggregate Receiving	Dust	– Limited quantity of aggregate received at any one time. – Stockpile confined within containment cell. – Environmental Management Plan implemented.
Cement Receiving	Dust	– Cement powder received via tanker truck and transferred via pipe. – Filtration is used on silo to minimize fugitive dust release to surrounding environment. – Staff use visual observations and aware of potential for storage silo to overfill limiting fugitive dust emissions. – Environmental Management Plan implemented.
Aggregate Conveyance	Dust	– Staff use visual observations and aware of potential for conveyor potential for fugitive dust emissions. – Environmental Management Plan implemented.
Vehicular traffic	Dust	– Dust suppression completed on an as needed basis using water and / or calcium chloride solution to drive pathways. – Site speed limit of 20 km/hr is enforced at all times. – Environmental Management Plan implemented.
Concrete Additives	Soil, Surface and Groundwater contamination	– Poly tanks are located on containment trays. – Poly tanks are located out of the way of any passing heavy lift equipment. – Product is transferred to tanks via a single supply hose.

PLANT AND SITE OPERATION	ENVIRONMENTAL EFFECTS	MITIGATION MEASURES
Concrete Pipe Port Cutting	Water contamination	– Concrete cutting occurs in designated areas. – Health and safety procedures are implemented anytime the bay is in use. – Cutting slurry is directed to a holding tank and treated with hydrochloric acid to manage pH. – Treated water directed to a holding tank. – Treated water then transported off site by licenced wastewater contractor and disposed of. – Environmental Management Plan implemented.
Concrete Waste	Waste	– Waste concrete is stockpiled on-site and removed 2 – 3 times per year for recycling. – Culled pipe is stored and removed 2 – 3 times per year for recycling.
Waste Steel	Waste	– Waste steel is recycled, removed from Site 2 – 3 times per year.
Boiler Operations	Air Emissions	– Annual inspection of boiler system to ensure optimum operational standards. – Monitor monthly gas consumption.
Boiler Blowdown	Surface water contamination	– Waste from the boiler blow down is contained in the on-site holding tank and then removed from site by a licenced wastewater hauler. – Environmental Management Plan implemented.
Storm water runoff	Surface water contamination	– Surface water and storm water runoff is directed to drainage ditch pathways adjacent to the Site. – Environmental Management Plan implemented.
Operations and Traffic	Noise	– Winnipeg by-law for noise restrictions is from 11:00 p.m. to 7:00 a.m. – High noise activities limited to within by-law timing. – Back-up beepers installed on all mobile equipment. – Equipment maintenance to reduce increased noise potential. – Limit idling time of mobile equipment. – Environmental Management Plan implemented.
Fuel Storage	Soil, surface water and groundwater impacts	– Fuel stored on-site in federally registered above ground storage tanks. – Spill kits located adjacent to refuelling locations. – Repairs of leaks identified through regular inspections. – Follow good housekeeping practices. – Emergency response plan in place. – Environmental Management Plan implemented.

PLANT AND SITE OPERATION	ENVIRONMENTAL EFFECTS	MITIGATION MEASURES
Waste Management	Soil, surface water and groundwater impacts	– Non-hazardous waste is removed regularly by licenced waste hauler. – Hazardous chemicals are removed as required by licenced waste hauler. – Follow good housekeeping practices. – Environmental Management Plan implemented.
Sanitary Waste System	Surface and groundwater impacts	– Water from the sanitary system is discharged to the on-site septic tank for removal by a licenced waste hauler.

5.1 Residual Effects

Environmental effects from Site operations are minimized by the mitigation measures and best practices outlined in Table 4, and as such, residual environmental effects are anticipated to be negligible to the environment relative to the current baseline conditions.

5.2 Decommissioning

Prior to permanent closure of the Site, MECC will be contacted to discuss the requirements for the development of a formal decommissioning plan and submission to the EAB for approval.

5.3 Environmental Management System and Reporting

Heidelberg has an Environmental Management Plan (EMP) in place for their Northwest Region (2023). The EMP is a summary of environmental and operation management plans, forms and emergency response procedures developed for work at Heidelberg operations in the northwest region. The EMP outlines the environmental protection measures to be implemented on the Site to eliminate or reduce potential environmental impacts. The procedures include performance based environmental requirements in accordance with regulatory approvals, best management practices and engineering specifications. The EMP encompasses the Heidelberg Environmental Policy and several guidelines including Dust Management and Mitigation, Issue Response, Stormwater Management, Mixer and Pump Truck Washing, Vegetation Management, Wildlife and Wildlife Habitat, and Neighbour Water Supply. A copy of the EMP is included in **Appendix D**.

5.4 Decommissioning

Prior to the permanent closure of the Site, a formal decommissioning plan will be developed and submitted to MECC for review and approval.

6 FOLLOW-UP, MONITORING AND REPORTING

Fuel consumption including diesel and natural gas is monitored monthly with the billing cycle. Water consumption is monitored during the review of the City of Winnipeg billing cycle and wastewater removal is monitored with waybill tickets by the licenced waste hauler. Inspections of fuel and storage, equipment inspections and monthly Health and Safety meetings are completed. It is not anticipated that any annual reporting will be required for this Class 2 development.

7 CONCLUSIONS

The Site is located at 2520 Ferrier Street, Winnipeg, has been in operation since 1976, predating the *Environment Act* and as such, has not been operating under an EAL. Heidelberg is submitting this EAP to ensure compliance with regulatory requirements of Manitoba and in good faith as a corporate citizen of Manitoba. The Plant manufactures concrete pipe, of various sizes, primarily for sanitary and stormwater sewer systems. The Plant and Site operations have environmental effects; however, through on-site physical mitigations, best management practices, good housekeeping practices and the implementation of the corporate environmental Management Plan, these environmental effects are mitigated, leaving negligible residual environmental effects.

8 REFERENCES

Bannatyne, B. 1988. Dolomite resources of southern Manitoba. Map ER85-1-4. Dolomite Resources of the Winnipeg -Garson-Stonewall Area. Manitoba Energy and Mines, Geological Services, Economic. Geology Report ER85-1, 39p.

Government of Manitoba. 1995. Winnipeg Air Quality Index. Retrieved from Sustainable Development: https://www.gov.mb.ca/sd/envprograms/airquality/brochures/wpgindex_e.html.

Government of Canada. National Inventory Report: Greenhouse Gas Sources and Sinks in Canada. En81-4E-PDF. Source: National inventory report: greenhouse gas sources and sinks in Canada.: En81-4E-PDF - Government of Canada Publications - Canada.ca Accessed: August 21, 2024.

Government of Canada. 2024. Canadian Climate Normals. Retrieved from Environment and Natural Resources: http://climate.weather.gc.ca/climate_normals/.

Matile, G., & Keller, G. 2004. Surficial geology of the Winnipeg map sheet (NTS 62H), Manitoba. Manitoba Industry, Economic Development and Mines, Manitoba Geological Survey, Surficial Geology Compilation Map Series, SG-62H, scale 1:250 000.

Render, F. 1970. Geohyrodology of the metropolitan Winnipeg area as related to groundwater supply and construction. The National Research Council of Canada. Vol 7(3).

APPENDIX

A MAPS AND FIGURES

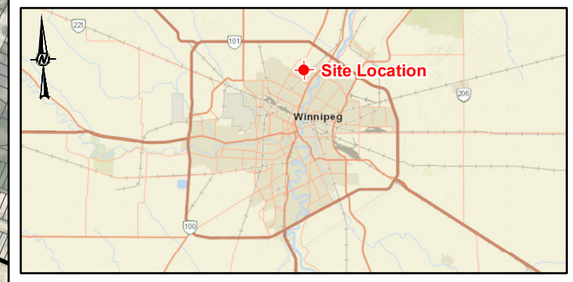
LEGEND

- Site Boundary
- West Kildonan Industrial Park Boundary
- Parks and Open Spaces
- Parcels

0 100 200 300 400 500

1:7,500 Meters

Coordinate System: NAD 1983 UTM Zone 14N



REFERENCE(S)

1. IMAGERY SOURCE: ESRI, MAXAR, EARTHSTAR GEOGRAPHICS [2023]

CLIENT
HEIDELBERG MATERIALS

PROJECT
ENVIRONMENT ACT PROPOSAL
CONCRETE PIPE MANUFACTURING PLANT
2520 FERRIER STREET, WINNIPEG

TITLE
SITE LOCATION

CONSULTANT
wsp

YYYY-MM-DD	8/23/2024
REPORT BY	D.KEAM
DRAWN BY	J.HECK
REVIEWED BY	D.KEAM
OFFICE	CALGARY

PROJECT NO. CA0024497.6396 | PHASE 100 | FIGURE 1

PATH: I:\W\SPA\B\Clients\Heidelberg Materials\Concrete Pipe Manufacturing Plant\CA0024497.6396\100\Figure1_SiteLocation.mxd PRINTED ON: 2024-08-23 AT: 9:03:48 AM

LEGEND

- Site Boundary
- Parcels
- Drainage
- Septic Storage Tanks
- Process Effluent Tanks

0 20 40 60 80 100

1:2,000 Meters

Coordinate System: NAD 1983 UTM Zone 14N

REFERENCE(S)

1. IMAGERY SOURCE: ESRI, MAXAR, EARTHSTAR GEOGRAPHICS [2023]

CLIENT

HEIDELBERG MATERIALS

PROJECT

ENVIRONMENT ACT PROPOSAL
CONCRETE PIPE MANUFACTURING PLANT
2520 FERRIER STREET, WINNIPEG

TITLE

SITE PLAN

CONSULTANT

wsp

YYYY-MM-DD	10/10/2024
REPORT BY	D.KEAM
DRAWN BY	J.HECK
REVIEWED BY	D.KEAM
OFFICE	CALGARY

PROJECT NO.	PHASE	FIGURE
CA0024497.6396	100	2

PATH: I:\WSP\AB\Clients\Heidelberg Materials\Concrete Pipe Manufacturing Plant\CA0024497.6396\100\Figure\2_SitePlan.mxd PRINTED ON: 2024-10-10 AT 9:32:19 AM

F.B. NO. 835-1/3

ORIGINAL

DEPOSIT NO. 965/95

METRIC

PLAN OF SUBDIVISION

OF PART OF

RIVER LOTS 23 AND 24, PARISH OF KILDONAN

BEING

PART ADDITIONAL LAND, PLAN NO. 8396 AND ALL LOTS 1, 2, PLAN 23615

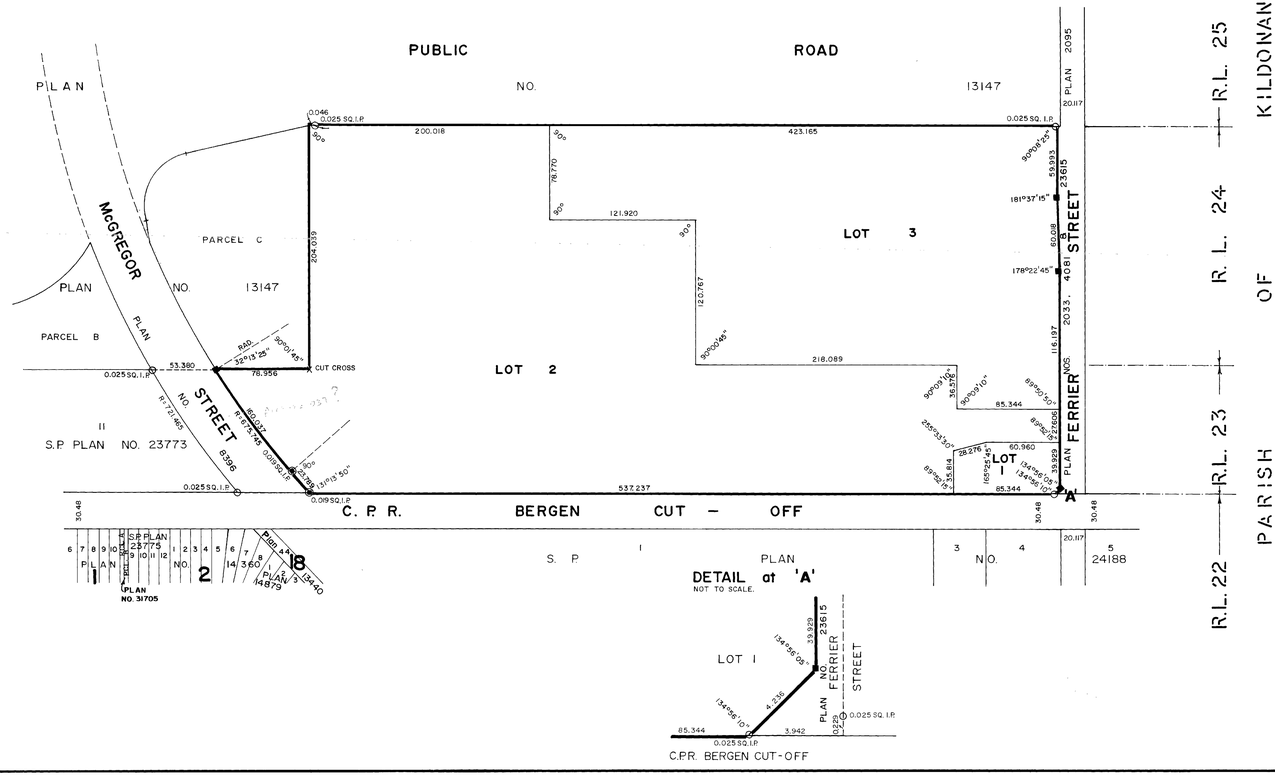
IN THE

CITY OF WINNIPEG

MANITOBA

SCALE: 1:2000

0 40 80 120 160 200



NOTES:

ALL DISTANCES ARE IN METRES AND DECIMALS THEREOF AND MAY BE CONVERTED TO FEET BY MULTIPLYING BY 3.28084

SURVEY MONUMENTS FOUND ON THE GROUND ARE DESCRIBED AND SHOWN THUS. . . . . ○

IRON POSTS 0.025 X 0.025 X 0.914 MARKED M.L.S. ARE PLANTED AT ALL POINTS SHOWN THUS . . . . . ■

THESE MONUMENTS TOGETHER WITH THE DIMENSIONS SHOWN HEREON ALONE GOVERN THE POSITION OF ALL LOTS ON THIS PLAN.

ALL PLANS REFERRED TO ARE ON RECORD IN THE WINNIPEG LAND TITLES OFFICE.

LAND AFFECTED BY THE REGISTRATION OF THIS PLAN IS SHOWN BORDERED THUS . - - - -

DUE TO THE EXISTING CONDITIONS, THE SURVEY REPRESENTED IS NOT INTEGRATED.

I, ALBERT GERHARD DEGNER, OF THE CITY OF WINNIPEG, MANITOBA LAND SURVEYOR, MAKE OATH AND SAY THAT I DID PERSONALLY SUPERINTEND THE SURVEY REPRESENTED BY THIS PLAN, THAT THE SURVEY WAS MADE ON THE 19th AND 20th DAYS OF SEPTEMBER, 1995, AND THAT THE SURVEY AND PLAN ARE CORRECT AND TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

[redacted]
MANITOBA LAND SURVEYOR

SWORN TO BEFORE ME AT WINNIPEG,
THIS 10TH DAY OF OCTOBER, 1995

[redacted]
A SURVEYOR AUTHORIZED TO PRACTISE UNDER "THE LAND SURVEYORS ACT."

APPROVED BY THE CITY OF WINNIPEG
THIS 23RD DAY OF NOVEMBER, 1995

[redacted]
DIRECTOR OF LAND AND DEVELOPMENT SERVICES

OWNER: 368538 Alberta Ltd.

[redacted]
PER
D. PICKERSGILL PRESIDENT

[redacted]
PER
G.L. YOUNG TREASURER

[redacted]
LAND SURVEYS

LAND DEVELOPMENT

THIS APPROVAL IS VALID FOR 60 DAYS UNLESS REGISTERED

APPROVED:

THIS 5 DAY OF February, 1996

[redacted]
REGISTRAR GENERAL

ENTERED AND REGISTERED IN THE WINNIPEG LAND TITLES OFFICE
THIS 15th DAY OF FEB., 1996
AS PLAN NO. 33206

[redacted]
FOR DISTRICT REGISTRAR

REGISTRATION NO. 1993458

THIS APPROVAL IS VALID FOR 12 MONTHS UNLESS REGISTERED.

APPROVED:

THIS 5 DAY OF February, 1996

[redacted]
EXAMINER OF SURVEYS

RE-APPROVED: _____

RE-APPROVED: _____

FILE NO. DASSF 540/95

POLLOCK AND WRIGHT
LAND SURVEYORS
204-379 BROADWAY
WINNIPEG, MANITOBA

#8
PLAN 33206
FEE: $80.00
WALSH MCKAY & CO.
107 3455

APPENDIX

B SUPPORTING DOCUMENTS

Innovation, Science and Economic Development Canada
Corporations Canada

Innovation, Sciences et Développement économique Canada
Corporations Canada

Certificate of Amendment

Canada Business Corporations Act

Certificat de modification

Loi canadienne sur les sociétés par actions

Heidelberg Materials Canada Limited
Matériaux Heidelberg Canada Limitée

Corporate name / Dénomination sociale

1055957-1

Corporation number / Numéro de société

I HEREBY CERTIFY that the articles of the above-named corporation are amended under section 178 of the *Canada Business Corporations Act* as set out in the attached articles of amendment.

JE CERTIFIE que les statuts de la société susmentionnée sont modifiés aux termes de l'article 178 de la *Loi canadienne sur les sociétés par actions*, tel qu'il est indiqué dans les clauses modificatrices ci-jointes.

[redacted]

Hantz Prosper

Director / Directeur

2023-01-01

Date of amendment (YYYY-MM-DD)
Date de modification (AAAA-MM-JJ)

Canada

Form 4
Articles of Amendment
Canada Business Corporations Act (CBCA) (s. 27 or 177)

Formulaire 4
Clauses modificatrices
Loi canadienne sur les sociétés par actions (LCSA) (art. 27 ou 177)

1 Corporate name
Dénomination sociale
Lehigh Hanson Materials Limited
Matériaux Lehigh Hanson Limitée

2 Corporation number
Numéro de la société
1055957-1

3 The articles are amended as follows
Les statuts sont modifiés de la façon suivante

The corporation changes its name to:
La dénomination sociale est modifiée pour :
Heidelberg Materials Canada Limited
Matériaux Heidelberg Canada Limitée

4 Declaration: I certify that I am a director or an officer of the corporation.
Déclaration : J'atteste que je suis un administrateur ou un dirigeant de la société.

Original signed by / Original signé par
Bruce M. Luck

Bruce M. Luck
403-874-3557

Misrepresentation constitutes an offence and, on summary conviction, a person is liable to a fine not exceeding $5000 or to imprisonment for a term not exceeding six months or both (subsection 250 (1) of the CBCA).

Faire une fausse déclaration constitue une infraction et son auteur, sur déclaration de culpabilité par procédure sommaire, est passible d'une amende maximale de 5 000 $ et d'un emprisonnement maximal de six mois, ou l'une de ces peines (paragraphe 250(1) de la LCSA).

You are providing information required by the CBCA. Note that both the CBCA and the *Privacy Act* allow this information to be disclosed to the public. It will be stored in personal information bank number IC/PPU-049.

Vous fournissez des renseignements exigés par la LCSA. Il est à noter que la LCSA et la *Loi sur les renseignements personnels* permettent que de tels renseignements soient divulgués au public. Ils seront stockés dans la banque de renseignements personnels numéro IC/PPU-049.

Water and Waste
Eaux et déchets

William McDougall
Heidelberg Materials Limited
2520 Ferrier Street
Winnipeg, MB R2V 4P6
Canada

November 29, 2023

Document ID: IWSB-PP-1460
NAICS Code: 327330

Sewer By-law No. 106/2018
Pollution Prevention Plan No Longer Required

Dear William McDougall,

Based on the information we've received, we no longer require Heidelberg Materials Limited at 2520 Ferrier Street to prepare and submit Pollution Prevention Planning documents.

We will continue to periodically monitor the wastewater discharges from 2520 Ferrier Street. If any discharge contravenes Schedules A, B, C, or D, we will take enforcement action as set out in the By-law.

Information on Pollution Prevention Planning is available on our website at winnipeg.ca/waterandwaste/sewage/pollutionprevention.

If you have any questions, please call 204-986-6455 or email WWD-Pollution-Prevention@winnipeg.ca.

Regards,

Industrial Waste Services Branch
Environmental Standards Division

STATUS OF TITLE

Title Number **2491509/1**
Title Status **Accepted**
Client File

Manitoba Land Titles Registry

1. REGISTERED OWNERS, TENANCY AND LAND DESCRIPTION

LEHIGH HANSON MATERIALS LIMITED

IS REGISTERED OWNER SUBJECT TO SUCH ENTRIES RECORDED HEREON
IN THE FOLLOWING DESCRIBED LAND:

LOT 3 PLAN 33206 WLTO
IN RL 23 AND 24 PARISH OF KILDONAN

The land in this title is, unless the contrary is expressly declared, deemed to be subject to the reservations and restrictions set out in section 58 of *The Real Property Act.*

2. ACTIVE INSTRUMENTS

Instrument Type:	**Caveat**
Registration Number:	**1138397/1**
Instrument Status:	**Accepted**
Registration Date:	1989-03-31
From/By:	THE CITY OF WINNIPEG
To:	
Amount:	
Notes:	No notes
Description:	CERTAIN CONDITIONS, RE: SECTION 600 (1) CITY WPG. ACT

Instrument Type:	**Caveat**
Registration Number:	**1993463/1**
Instrument Status:	**Accepted**
Registration Date:	1996-02-15
From/By:	THE CITY OF WINNIPEG
To:	
Amount:	
Notes:	No notes
Description:	SUBDIVISION AGREEMENT

Instrument Type:	**Caveat**
Registration Number:	**4785607/1**
Instrument Status:	**Accepted**
Registration Date:	2016-11-08
From/By:	LEHIGH HANSON MATERIALS LIMITED
To:	JONATHAN GOLDENBERG AS AGENT
Amount:	
Notes:	DOMINANT
Description:	RESTRICTIVE COVENANT

Instrument Type:	**Caveat**
Registration Number:	**5284048/1**
Instrument Status:	**Accepted**
Registration Date:	2021-04-16
From/By:	LEHIGH HANSON MATERIALS LIMITED
To:	
Amount:	
Notes:	Dominant
Description:	Restrictive Covenant

3. ADDRESSES FOR SERVICE

LEHIGH HANSON MATERIALS LTD
222, 885 - 42ND AVE SE
CALGARY AB
T2G 1Y8

4. TITLE NOTES

No title notes

5. LAND TITLES DISTRICT

Winnipeg

6. DUPLICATE TITLE INFORMATION

Duplicate not produced

7. FROM TITLE NUMBERS

1862163/1 All

8. REAL PROPERTY APPLICATION / CROWN GRANT NUMBERS

No real property application or grant information

9. ORIGINATING INSTRUMENTS

Instrument Type:	**Request To Issue Title**
Registration Number:	**4001659/1**
Registration Date:	2010-11-02
From/By:	LEHIGH HANSON MATERIALS LIMITED
To:	
Amount:	

10. LAND INDEX

Lot 3 Plan 33206

CERTIFIED TRUE EXTRACT PRODUCED FROM THE LAND TITLES DATA STORAGE SYSTEM OF TITLE NUMBER 2491509/1

APPENDIX

C PHOTOS

Photo 1. Aggregate loading hopper and belt conveyor in background.

Photo 2. Aggregate stockpile adjacent to loading hopper, with covered lid to tunnel access.

wsp	Date Taken: April 2, 2024	Client: Heidelberg
	Taken by: Cassie Bujan	Location: 2520 Ferrier St. Wpg
	Project No.: CA0024497.6396	

Photo 3. Aggregate storage (Limestone and Sand) Cells.

Photo 4. Looking southwest, pipe storage and adjacent property in background.

wsp	Date Taken: April 2, 2024	Client: Heidelberg
	Taken by: Cassie Bujan	Location: 2520 Ferrier St., Wpg
	Project No.: CA0024497.6396	

Photo 5. Looking southeast on-site, steel cage storage.

Photo 6. Looking south across Site, concrete pipe storage, various sizes.

wsp	Date Taken: April 2, 2024	Client: Heidelberg
	Taken by: Cassie Bujan	Location: 2520 Ferrier St., Wpg
	Project No.: CA0024497.6396	

Photo 7. Large diameter pipe product from station.

Photo 8. Rebar cage welding station.

wsp	Date Taken: April 2, 2024	Client: Heidelberg
	Taken by: Cassie Bujan	Location: 2520 Ferrier St., Wpg
	Project No.: CA0024497.6396	

Photo 9. Additives distribution valve network.

Photo 10. Additive bulk storage (2 × 2500 L and 1 × 205L).

wsp	Date Taken: April 2, 2024	Client: Heidelberg
	Taken by: Cassie Bujan	Location: 2520 Ferrier St., Wpg
	Project No.: CA0024497.6396	

Photo 11. Wet concrete port cutting bay.

Photo 12. Wet catch channel outside cutting bay door.

wsp	Date Taken: April 2, 2024	Client: Heidelberg
	Taken by: Cassie Bujan	Location: 2520 Ferrier St., Wpg
	Project No.: CA0024497.6396	

Photo 13. Hydrochloric slurry treatment system over holding tank.

Photo 14. On-Site natural gas boiler.

wsp	Date Taken: April 2, 2024	Client: Heidelberg
	Taken by: Cassie Bujan	Location: 2520 Ferrier St., Wpg
	Project No.: CA0024497.6396	

Photo 15. Process effluent holding tank with concrete block barriers.

Photo 16. Concrete pipe storage, various sizes.

wsp	Date Taken: April 2, 2024	Client: Heidelberg
	Taken by: Cassie Bujan	Location: 2520 Ferrier St., Wpg
	Project No.: CA0024497.6396	

Photo 17. Diesel Fuel AST on Site.

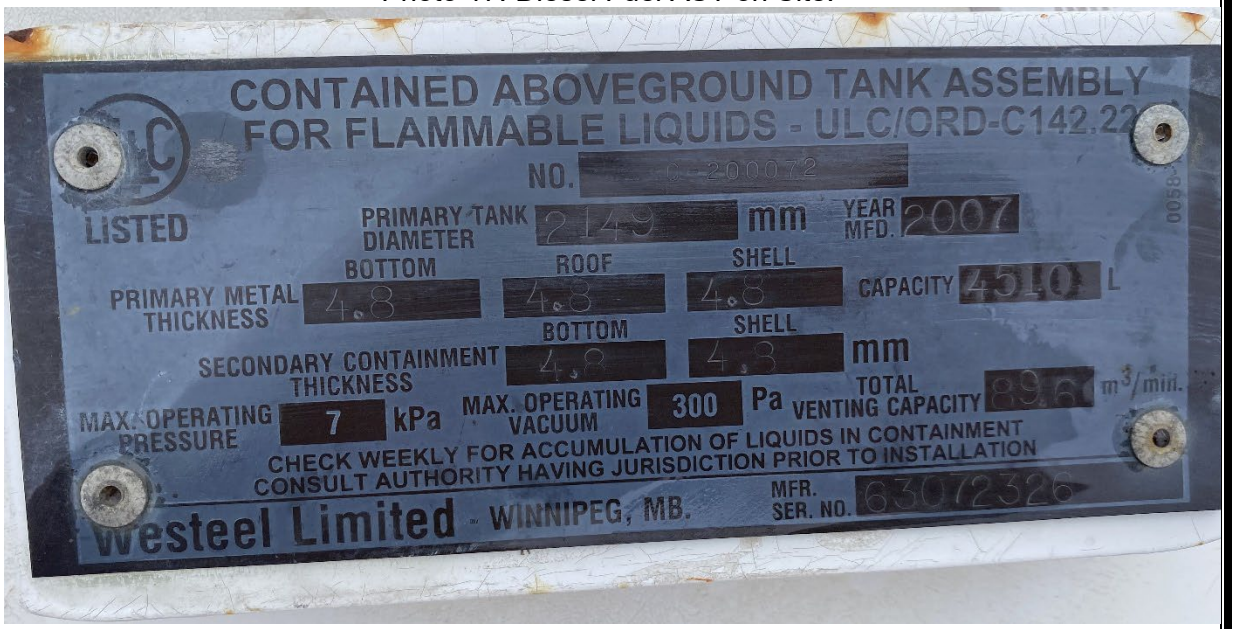


Photo 18. AST specification tag.

wsp	Date Taken: April 2, 2024	Client: Heidelberg
	Taken by: Cassie Bujan	Location: 2520 Ferrier St., Wpg
	Project No.: CA0024497.6396	

APPENDIX

D HEIDELBERG ENVIRONMENTAL MANAGEMENT PLAN

Environmental Management Plan Northwest Region

Environmental Management Plan

Introduction

The following is a summary of environmental and operation management plans, forms, and emergency response procedures developed for work at Heidelberg Materials Canada Limited (HMCL) operations in the northwest region. These documents are intended to be used in combination with site specific permits issued by federal, provincial and municipal regulatory bodies. If activities at the site change beyond their current scope, documents will be updated to reflect current processes and procedures and include any appropriate information.

Scope of Environmental Management Plan

The documents included in the Environmental Management Plan (EMP) outline the environmental protection measures to be implemented on the site to eliminate or reduce potential environmental impacts. The procedures include performance based environmental requirements in accordance with regulatory approvals, best management practices (BMPs) and engineering specifications.

The plans, forms, and procedures aim to guide the work conducted at the site, as well as off site works associated with site activities in an environmentally responsible manner.

Plan Applicability

The EMP applies to any person, subcontractor or organization associated with the works at the site.

List of Documents

The works at the site involve several environmental aspects that require unique considerations and may require site-specific or discipline specific documentation. The documents below detail the relevant best management practices, mitigation measures, monitoring and inspection requirements, and reporting requirements. These documents are considered to be fluid, and are updated whenever activities at the site change beyond their current scope.

Policies

- HMCL Environmental Policy

Guidelines

- Dust Management and Mitigation
- Issue Response
- Spill Response Plan
- Stormwater Management
- Mixer and Pump Truck Washing
- Vegetation Management
- Wildlife and Wildlife Habitat
- Neighbour Water Supply

Forms

- Dust Collector Inspection Form
- Dust Complaint Record Form
- Effluent Treatment System Inspection Form
- Environmental Incident Reporting Form
- Fuel Tank & Oil Water Separator Inspection Form
- Quarterly Site Inspection Checklist

The included documents are overarching HMCL procedures and plans. Site specific versions of the documents may be generated to increase reporting efficiencies.

In addition to these procedures, all HMCL sites are subject to routine compliance audits and site inspections to verify adherence to environmental regulations, commitments and guidelines.

March 2023

Northwest Region

Northwest Region Environment Policy

Natural resources are the basis of our business. Our primary objectives are to protect the climate, preserve resources, reduce emissions, and have the lowest possible impact on the environment. The sustainable development and operation of our businesses is critical in maintaining our license to operate. Our goal is to achieve a workplace where operations are recognized as good stewards of the environment and a welcome member of the community.

At Heidelberg Materials Canada Limited we are committed to:

- Conducting operations in accordance with sound environmental principles, standards, and practices, including participating in programs for the reduction, reuse, recycling and recovery of wastes, and the conservation of energy.
- Complying with, and exceeding, all applicable federal, provincial/state, and local environmental legislation and regulations.
- Establishing and maintaining corporate social responsibility through co-operative working relationships, alignment, and transparent, two-way communication with our customers, contractors, suppliers, public officials, Indigenous and local communities.
- Monitoring, auditing and investigating environmental progress, activities and incidents and implementing corrective actions to facilitate continual improvement.
- Emphasizing the central role of our employees in maintaining and improving our environmental policies, programs, systems, and overall environmental performance.
- Recognizing the importance of planning and undertaking operations with the complete life-cycle in mind, from site identification to reclamation and closure.
- Training to support the development of our employees' awareness of the environmental impacts associated with operations as well as understanding that it is a condition of employment to carry out activities in an environmentally responsible manner.

Title: Dust Management		**Document # :** LH-OP-202
Version: 1.0	**Revision Date:** *March 2023*	**Approved By:** TBD

Purpose: To describe management procedures and responsibilities that will lead to the control of dust production and that will limit the impact of Heidelberg Materials Canada Limited (HMCL) operational activities on air quality in the surrounding environment

Scope:

- This Management Procedure applies to all HMCL sites, facilities, operations, and activities with the potential to generate dust emissions.
- This Procedure applies to fugitive dust emissions and point source dust emissions as defined below.
- This Procedure describes management requirements relating to dust control at HMCL sites. Individual sites may implement management procedures in addition to those described here.
- In addition to the requirements of this Procedure, each site must evaluate legal requirements applicable to dust control and emissions limits. Applicable legal requirements take precedence over the practices described in this Procedure.

Management Procedures:

Addressing Legal Requirements

• The Operations Manager shall work with the Environmental & Sustainability Manager (ESM) to identify any legal requirements applicable to point source or fugitive dust emissions at each site including communication as necessary with federal, state/provincial, regional and municipal regulators, to understand applicable legal requirements.

• Where legal requirements are identified that require a plan for the management of point source and / or fugitive dust emissions, the Operations Manager and/or Plant Manager shall work with the ESM to develop a Dust Control Plan (DCP) that satisfies legal requirements. Development of the DC Plan is described in Section 4.4 of this Procedure.

Addressing Sites with Potential Dust Concerns

• For sites where there are no legal requirements for the development of a DCP, the Operations Manager and ESM will evaluate the individual circumstances of each site to determine whether the development and implementation of a DCP is warranted.

• The evaluation of site-specific dust issues should consider factors such as:

- Potential on-site sources of point source and fugitive dust;
- The relative volume or severity of dust that may be released from these sources, and the frequency of occurrence;
- Potential for dust emissions to negatively impact neighbouring properties considering distances to property lines, prevailing wind directions, elevations of fugitive dust sources relative to neighbouring properties; and
- Known complaints received from neighbours or regulatory agencies in the past.

• After evaluation of the individual dust generation issues at a site, the Operations Manager and ESM will decide if a DCP is warranted at the site, even though such a plan may not be a legal requirement. Development of the DCP is described in Section 4.4 of this Procedure.

Considerations at All Sites

• For all sites, regardless of legal requirements or a voluntary decision to require a DCP, the Plant Manager and Operations Manager as applicable, working with the ESM, shall assess potentially applicable point source and fugitive dust control practices that a site may implement.

• Guidance for this assessment is provided in the Dust Control Practices Standard

Dust control plan content

Where a DC Plan is to be developed either as a result of a legal requirement or as a result of a decision made following evaluation of site-specific circumstances, the DC Plan should include content such as:

• Listing of all point source and fugitive dust sources at the site;

• Mapping of the relative location of all dust sources;

• Preventive and control practices to be implemented at the site;

• Emissions monitoring techniques, including opacity monitoring and any legal requirements for methods or reporting standards;

• Training requirements for HMCL personnel;

• Procedures for reporting and responding to abnormal or emergency situations associated with dust emissions;

• Applicable record retention requirements; and

• Responsibilities of HMCL personnel for implementing the DCP.

Training

The Plant Manager or Operations Manager shall ensure that relevant personnel are provided with:

• Training in the DC Plan (if applicable), and

• Training in dust management and control practices selected for application at the site

Monitoring

The Plant Manager or Operations Manager shall ensure that:

• Routine monitoring is conducted to assess conformance to the controls and site-specific plans, including observations, inspections, and air quality monitoring events as appropriate; and

• If a DCP is in place, the plan is updated whenever there are modifications, upgrades, and retrofits to the site operations or activities that may affect the generation of fugitive dust or the introduction of point-source emissions

Incident Reporting

• All personnel shall immediately notify the Plant Manager or their supervisor in the event of any incident involving dust emissions.

• The Plant Manager or supervisor shall immediately notify the ESM of all incidents relating to dust emissions, and any abnormal or emergency situations that may result in environmental impact to air quality.

• The ESM will be responsible for determining the need for notifying other external or internal parties of the incident.

RESPONSIBILITIES

Operations Manager is responsible to:

• Implement this Management Procedure at HMCL facilities for which they are responsible.

• Identify legal requirements applicable to the management of point-source and fugitive dust emissions, with support from the ESM, and ensure that plans are developed to comply with all applicable requirements.

• In conjunction with the ESM, assess individual site circumstances for potential dust emissions concerns, and assess the potential application of dust management practices and controls.

• Ensure that ongoing monitoring is conducted to assess performance and conformance to legal requirements and the requirements of management plans or other controls relating to point source and fugitive dust emissions.

• Adjust or maintain Dust Control Plans, management practices, and controls as necessary to reflect modifications or changes of the operation of facilities.

• Ensure that all relevant personnel obtain the training necessary to implement Dust Control Plans, management practices and controls.

Plant Manager / Foreman / Supervisor is responsible to:

• Support the Operations Manager in the implementation of this management procedure and in dust management tasks, to comply with legal requirements and the requirements of any dust management plans.

• Ensure the day to day enforcement of this procedure

• Notify the ESM of any reported incidents, abnormal events or emergency situations involving dust.

All Personnel are responsible to:

• Notify the Plant Manager of any environmental incidents involving dust and dust emissions.

• Implement any dust controls or management practices for which they have been made responsible.

Environmental & Sustainability Manager is responsible to:

• Support the Operations Manager with information and guidance on applicable legal, BU, and company policy requirements.

• In conjunction with the Operations Manager and Plant Manager, assess site circumstances for potential point source or fugitive dust emission concerns, and assess the potential application of dust management practices and controls.

• Advise the Operations Manager with regard to the satisfaction of legal requirements, including preparation of plans and other documents, obtaining necessary permits, and identifying appropriate qualified professionals to provide external support where necessary.

• Assess all reported incidents relating to dust emissions, and determine if external notification is required.

DUST MITIGATION

To mitigate the impact of dust transfer to adjacent properties, Heidelberg Materials Canada Limited (HMCL) will take all reasonable measures to ensure that fugitive dust emissions are minimized using best management practices associated with the ready mix concrete plant.

POTENTIAL DUST SOURCES:

Potential sources of dust from the plant operations could include:

- Mobile equipment and mixer trucks;
- Transfer/movement of fine materials in stockpiles and between silos across the site.

MITIGATION MEASURES:

HMCL will control the dust hazard through the following engineering and administrative mitigation measures:

Operational Components	Mitigation Measures
Personal Protection	• Dust masks are available on site to employees at all times; • Regular safety meetings, including discussions on dust exposure.
General Mitigation	• Apply water across site roadways and aggregate piles as required to minimize fugitive dust during dry periods; • Ensure that all dust control infrastructure associated with ready mix concrete plant is operable, maintained, and inspected as per oncrete Code of Practice requirements; • Apply approved dust suppressants as required; application rates shall vary, depending on surface moisture conditions and traffic conditions; • Inspection of driving areas for dust control; • Limit haul truck, service vehicle and other mobile equipment speed to 20 km/ hr within depot operation areas.
Conveyors	• Minimize drop distances between conveyor belt transition points, and conveyor belts to top of stockpiles • Use dust boots / curtains around transfer points on conveyor systems.
Stockpiles	• Conduct routine watering of stockpiles if they become dry, water waste concrete prior to crushing activities to ensure minimization of dust.

DUST MONITORING:

Dust monitoring will be conducted as required by the Concrete Code of Practice to ensure immediate response and implementation of appropriate mitigation measures.

DUST COMPLAINT RESPONSE:

Dust complaints will be logged and addressed immediately using the ***Dust Complaint Record Form***. A copy of each Dust Complaint Record Form will be emailed to the area Environment & Sustainability Manager.

PLAN REVIEW:

After implementation, the Dust Management Plan (DCMP), complaint log and available dust monitoring records will be reviewed internally on an annual basis, or more frequently if required, to determine the effectiveness of mitigation measures in reducing or limiting impacts of dust from the plant operations. Any new learnings will be evaluated and incorporated into the Dust Mitigation Plan.

Title: *Issue Response Guideline*	**Document # :** LH-MG-001
Version: 2.0	**Revision Date:** March 2023

Purpose: To provide a consistent process for the investigation, mitigation and follow up of concerns raised by stakeholders.

Scope: This procedure applies to all Heidelberg Materials Canada Limited (HMCL) Northwest Region sites.

CONTACT INFORMATION

Signage will be posted at each facility entrance and, in some cases, along fenced boundaries providing contact information for the public to use in the event they have a concern or issue to communicate. HMCL will also work closely with regulatory agencies if concerns are filed with the agencies directly.

INITIAL INVESTIGATION

When an issue or concern is received, the individual(s) will be requested by HMCL to identify the nature and location of the concern, as well as the time of day that it was detected and any other relevant information including contact information. All issues/concerns will be reviewed by HMCL's Site Manager and recorded using the *Complaint Record Form*.

The HMCL Site Manager will initiate the following action plan:

- If the concern is related to normal and approved operating activities and can be addressed immediately over the phone, the Site Manager will provide and document the response
- If the concern cannot be immediately addressed, conduct an inspection to identify the source/cause of the issue (ie., source of visible dust or noise);
- Create a record of the inspection; and
- Determine weather conditions (both current and at the time the concern was noted).

If it is determined that the site is the cause of the concern, the Site Manager will evaluate if mitigation is required or if the concern is related to normal operating practices and approved activities. If it is determined that the concern is not related to normal and approved activities, mitigation will be required.

MITIGATION EVALUATION

If it is determined that the concern is related to site activities or operations and mitigation is necessary, the Site Manager will implement the following response procedures:

- **Level 1** - Inspection and Operational Corrections: Ensure that all elements of the Dust Management Plan (DMP) or other relevant management plans and guidelines are being followed, along with all applicable provincial and municipal requirements. Control measures such as increased water spraying or back up alarm modifications may be required, depending on the nature of the concern.

- **Level 2** - Operational Modifications: If the Level 1 response does not adequately resolve the source of the concern, the HMC Site Manager will investigate additional control measures, and may commit to making facility or operational changes to address the concern. Such changes may include, but are not limited to relocation of equipment or additional administration and engineering controls as appropriate.

FOLLOW UP

The HMCL Site Manager will respond to all concerns within 24 hours by telephone or email outlining the investigation status and, if available, the findings.

If the investigation indicates the site is not the cause of the issue, the individual(s) shall be notified of that outcome in writing.

If the investigation indicates the site is the cause of the concern, but is related to normal and approved activities, the Site Manager will communicate, in writing, that the concern noted is related to normal activities and provide a timeframe for which that condition is expected to continue.

If the investigation indicates the site is the cause of the concern and mitigation is implemented to address the concern, the Site Manager will communicate the results to the individual(s) once the issue has been adequately reduced or eliminated.

All documentation related to the complaint or issue will be retained on site and a copy provided to the regional Environment & Sustainbility Manager.

EMERGENCY INFORMATION
FOR RELEASE OR SPILL TO ENVIRONMENT

Business Name:_____

Site Address: _____Phone #:_____

Emergency Response Contacts / Notification:

On-Site Emergency Contact: Name: _____ Phone: (204) -_____

Alternate Contact: Name:_____ Phone: (204)_____

Company Environment Supervisor: Jordon Staff	(403) 214-4129 (403) 620-8891	For immediate reporting of all environmental incidents.
Company H&S Manager: Jeff Latvala	(403) 214-4130 (403) 471-9189	For immediate reporting of all safety/environmental incidents.
Fire/Paramedic/Police:	911	For all emergencies.
Manitoba Environment:	1-204-944-4888	For immediate reporting of all environmental incidents.
Environment Canada	1-800-265-0237	For immediate reporting of all environmental incidents
National Response Center for TDG (CANUTEC):	(613) 996-6666	For reporting of major chemical spills
Spill Response / Cleanup Contractor (TERVITA):	1-800-327-7455	For local assistance with clean-up activities

Resources:

Location of Material Safety Data Sheets:_____

Spill Control Equipment is Located:_____

Location of Fire Extinguishers:_____

SPILL RESPONSE PROCEDURE

NOTIFICATION	
❑	Identify the nature of the emergency (health hazard?), check for casualties, identify the product spilled and locate the source, if safe to do so.
❑	Contact Emergency at 911 if there is a fire or medical attention is needed.
❑	Evaluate if you are trained, knowledgeable and equipped to handle the incident before proceeding with Spill Containment & Clean-Up.
❑	For spills > reportable limit, call MB SPILLS **1-204-944-4888** immediately who will notify other agencies (City, DFO, Environment Canada).
❑	Alert manager/owner and Environmental Manager of spill/release. Refer to "Emergency Information for Accidental Release or Spill" for contact names and numbers.
❑	Clear the area of non-trained or unauthorized personnel. Notify public downstream and downwind, if necessary.
SPILL CONTAINMENT	
❑	Obtain personal protective equipment (PPE), as appropriate to the hazards. Refer to the Material Safety Data Sheet or other references for information.
❑	Stop flow/ignition sources of spill (put container upright, plug leak, etc).
❑	Isolate the area and start containment of migrating material - seal off storm drains/stormwater conveyances (ditches) with berms or drain covers to stop any spread of the spill.
❑	Protect inside floor drains from spill – absorbent pads and spill socks should be placed around drains, as needed.
❑	Use absorbent pads and/or granular sorbent to clean up spilled material – distribute over the entire spill area, working from the outside, circling to the inside. This reduces the chance of splash or spread of the spilled chemical.
❑	Let pads sit on spill to absorb spilled material. [REMEMBER MORE IS NOT BETTER – take the time to place them individually as they do not work as well when in a stack.]
❑	For dry spills, sweep or shovel-up material and dispose of in a separate labeled drum for proper disposal. Never hose down or put into the garbage bin.
CLEAN UP MATERIAL DISPOSAL	
❑	When spilled materials have been absorbed, place pads and sorbent materials in a leak-proof container such as a polyethylene bag or bucket. Label those containers as appropriate.
❑	Dispose of waste materials properly. Spill cleanup materials containing hazardous waste is also considered hazardous waste and should be picked up by a hazardous waste disposal contractor.
❑	Call a spill cleanup contractor for assistance with clean-up activities and proper disposal of waste.
INCIDENT TERMINATION & FOLLOW-UP	
❑	Complete Environmental Incident Report with all responders to identify corrective/preventative actions for implementation/completion. Send completed Report to Environment Manager.
❑	Replace used equipment and re-stock spill kits. Restore area to normal.

TO BE POSTED IN CLEAR LOCATIONS & NEAR EACH SPILL KIT

Title: *Stormwater Management*		**Document # :** LH-OP-201
Version: 1.0	**Revision Date:** *March 2023*	**Approved By:**

Purpose: To describe management procedures and responsibilities that will lead to the protection of storm water quality and quantity, and that will limit the impact of Lehigh operational activities on the receiving water environment.

Scope: This procedure applies to all Heidelberg Materials Canada Limited (HMCL) Northwest Region aggregate mining locations including aggregate storage depots and material handling berths.

Management Procedure:

3.1 Addressing Legal Requirement

- The Operations Manager shall work with the Environmental & Sustainability Manager (ESM) to identify legal requirements that are relevant to storm water management at each site, including
  communication as necessary with federal, state/provincial, regional and municipal regulators, to understand applicable legal requirements.
- Where legal requirements are identified that require a plan for the management of storm water, the Operations Manager and/or Plant Manager shall work with the ESM to
  develop a plan (such as a Storm Water Pollution Prevention Plan or

4.2 Addressing Sites with Potential Storm Water Concerns

- For sites where there are no legal requirements to develop a storm water management plan, the Operations Manager and ESM will evaluate the individual storm water circumstances of each site and determine whether the development and implementation of a management plan is warranted.
- The evaluation of site-specific storm water circumstances should consider factors such as:
  - Storm water drainage patterns and discharge areas.
  - Sensitivity of receiving environments and water users.
  - Potential storm water contaminant sources and activities that take place in outdoor areas.
- After evaluation of the individual storm water circumstances at a site, the Operations Manager and Environmental Manager will decide if a management plan for storm water is warranted at the site, even though such a plan may not be a legal requirement. Development of the plan is described in Section 4.4 of this Procedure.

4.3 Considerations at All Sites

- Regardless of legal requirements or a voluntary decision to develop a management plan for storm water, the Operations Manager and Plant Manager as applicable, working with the ESM, shall assess potentially applicable storm water management and control practices that a site may implement.

- Guidance for this assessment is provided in HMCL EMS document ST-01, Storm Water Control Standard.
- The Operations Manager and Plant Manager as applicable shall implement any storm water management and control practices that are selected for their site(s).
- TheESM should be consulted to identify qualified environmental professionals to assist with the evaluation, design or implementation of controls when external support is required

4.4 Develop Site-Specific Plans and Controls

- Where a storm water management plan is required, either as a legal requirement or based on an evaluation of site-specific circumstances, the Plant Manager or Operations Manager shall ensure that a plan is developed that:
  - Meets the standards specified in Lehigh EMS document ST-01, Storm Water Control Standard, and
  - Satisfies applicable legal requirements.
- The ESM may assist with the development of the plan, or may be consulted to identify qualified environmental professionals to assist with the plan development when external support is required.

4.5 Training

The Plant Manager or Operations Manager shall ensure that relevant personnel are provided with:

- Training in the storm water management plan (if applicable), and
- Training in storm water controls selected for application at the site.

4.6 Monitoring

The Plant Manager or Operations Manager shall ensure that:

- Routine monitoring is conducted to assess conformance to the controls and site-specific plans, including observations, inspections, and sampling events as appropriate; and
- If a storm water management plan is in place, the plan is updated as required whenever there are modifications, upgrades, and retrofits to the site operations or activities.

4.7 Incident Reporting

- Any personnel shall immediately notify the Plant Manager in the event of an incident involving storm water quality or flow.
- The Plant Manager shall immediately notify the ESM of any incident relating to storm water, and any abnormal or emergency situations that may result in environmental impact to storm water.
- The ESM will be responsible for determining the need for notifying other external or internal parties of the incident.

5 RESPONSIBILITIES

Operations Manager is responsible to:

• Implement this Management Procedure at HMCL facilities for which they are responsible.

• Identify legal requirements applicable to the management of storm water, with support from the ESM, and ensure that plans are developed to comply with applicable requirements.

• In conjunction with the ESM, assess individual site circumstances for potential storm water concerns, and assess the potential application of storm water management practices and controls.

Ensure that ongoing monitoring is conducted to assess performance and conformance to legal requirements and the requirements of management plans or other controls relating to storm water.

• Adjust or maintain storm water management plans or controls as necessary to reflect modifications or changes of the operation of facilities.

• Ensure that all relevant personnel obtain the training necessary to implement storm water plans and controls.

Plant Manager / Foreman / Supervisor is responsible to:

• Support the Operations Manager in the implementation of this management procedure and in storm water management tasks, to comply with legal requirements and the requirements of any storm water management plans.

• Ensure the day to day enforcement of this procedure.

• Notify the ESM of any reported incidents, abnormal events or emergency situations involving storm water.

All Personnel are responsible to:

• Notify the Plant Manager of any environmental incidents involving storm water.

• Implement any storm water controls or management practices for which they have been made responsible.

Environmental & Sustainability Manager is responsible to:

• Support the Operations Manager with information and guidance on applicable legal and company policy requirements.

• In conjunction with the Operations Manager and Plant Manager, assess site circumstances for potential storm water concerns, and assess the potential application of storm water management practices and controls.

• Advise the Operations Manager with regard to the satisfaction of legal requirements, including preparation of plans and other documents, obtaining necessary permits, and identifying appropriate qualified professionals to provide external support where necessary.

• Assess all reported incidents relating to storm water, and determine if external notification is required.

• Keep the Environmental Director informed of progress / issues on a regular basis and advise where support and guidance is required.

6 RELATED DOCUMENTS

- ST-01, Storm Water Control Standard
- Site-Specific Storm Water Management Plans

7 RECORDS

• None

READY-MIXED CONCRETE

OPERATIONAL PROCEDURES

HEIDELBERG MATERIALS CANADA LIMITED – NORTHWEST REGION

Title: *Guidelines for Washing Off & Washing Out Concrete Trucks*		**Document # :** LH-OP-002
Version: 1.0	**Revision Date:** *March 2023*	**Approved By:** *TBD*

Purpose: The purpose of this procedure is to ensure that wash water generated by Northwest Region Concrete's ready mix operations and facilities do not leave the plant site when trucks are being washed off or washed out and that any runoff is handled and disposed of in accordance with applicable regulations and industry best practices.

Scope: This procedure applies to all Ready Mix plants in Heidelberg Materials Canada Limited (HMCL) Concrete operations, it applies to all mixer truck drivers that wash off or wash out on any HMCL sites. This procedure applies to the washing of the exterior of trucks as well as the washout of trucks at the end of the day or between loads.

Definitions:

-

PROCEDURE:

Safety Considerations:

- *PPE Requirements include Hard Hat, Steel Toed Boots, Safety Glasses and Gloves*
- *Three Point Contact must be made at all times.*

Step	*Details of Procedure*	*Responsibility*
4.1	**Washing Off Mixer Trucks** Wash off trucks in Designated Areas ONLY. *Use recycled water for washout whenever possible.* Drive to the designated wash area and prepare for washing (i.e. hoses, nozzles etc). 1. Rinse off charging hopper and drum fins 2. Rinse off tops of main chute and extension 3. Rinse off drum and cab (if required) 4. Rinse off tail lights and back of truck 5. Return water hose to side of washout area	*Mixer Driver*
4.2	**Washing Out Drum (Wet method)** 1. Ensure that any return concrete that is remaining in the drum has been disposed of according to Best Practice; • Into Reclaimer's • Has been made into lock blocks • Has been unloaded into designated area for later crushing and use as road crush. 2. Drive to designated area and prepare for washing (hoses, nozzles etc) 3. Add water to drum and mix with remaining materials. → *Remember to always use the minimum amount required.*	*Mixer Driver*

	4. Discharge slurry materials into designated area (i.e. washout pit) 5. Rinse Off; • Charging hopper and fins • Tops of main chute and extension • Drum and cab • Tail lights and back of truck 6. Return hose to side of washout area	
4.3	**Washing Out Drum (Dry method)** 1. Ensure that any return concrete that is remaining in the drum has been disposed of according to Best Practice; • Into Reclaimers • Has been made into lock blocks • Has been unloaded into designated area for later crushing and use as road crush. 2. Drive to designated area and prepare for washing (hoses, nozzles, etc) 3. Load coarse aggregate into truck at mixing speed. (e.g. it is recommended that 1000 lbs/ 450 kg of #4 and #57/ 20 mm aggregate 4. Alternate reversing and charging the drum 3 times at mixing speed to ensure that the aggregate is able to move up and down the barrel and blades. 5. Discharge the aggregate into the designated area, i.e. the bin of same sized aggregate storage.	*Mixer Driver*

Forms and Templates:

- none

Records:

- none

References:

- None

Attachments:

- none

Title: *Vegetation Management Guideline*	**Document # :** LH-MG-003
Version: 2.0	**Revision Date:** March 2023

Purpose: To ensure that undesirable vegetation species are managed in a consistent and environmentally responsible manner at Heidelberg Materials Canada (HMCL) Northwest (NW) Region sites.

Scope:

This guideline applies to all HMCL NW Region sites.

BACKGROUND

Land management periodically requires chemical and/or mechanical treatment to control undesirable weed species. The intention of weed control on HMCL is to control weed infestations on HMCL sites and prevent spread onto adjacent properties.

CONTRACTOR REQUIREMENTS

LHML hires contractors to visit most active and inactive sites during the growing season. They are also deployed on a case by case basis when required by local operation managers.

All contractors must have the appropriate certifications and licenses as determined by local and provincial laws. All weed treatment records are to be provided to HMCL for recordkeeping and must include, at a minimum, herbicide name, application rate, weather and treatment area.

TREATMENT METHODS

Chemical Treatment:

Chemical treatment involves the use of herbicides to control weed growth and is the most common method of control utilized at HMCL sites. The use of broadleaf spectrum herbicides is preferred and should be applied unless site specific concerns require a different treatment method. This allows perennial grasses to establish on topsoil piles, berms and other areas to prevent erosion and reduce exposed soil and bare ground, minimizing dust over the entire property. Broadcast spraying is discouraged; instead, infestations should be spot sprayed to both minimize cost and reduce the amount of herbicide used. No long term residual herbicides are to be used on HMCL sites.

Various methods of application should be used (trucks, side by sides, on foot), to ensure appropriate application rates and to minimize disturbance around potentially sensitive areas. All sites are to be provided with treatment records.

Mechanical Treatment:

Mechanical control methods can include cultivation or mowing and should be considered where herbicide application may not be suitable.

OTHER CONSIDERATIONS

On dormant or inactive lands not being mined for aggregates, agriculture operations should be considered as an alternative land management option. This minimizes the need for ongoing weed management while ensuring the land stays productive and adding value to the local agriculture industry.

AGGREGATES

MANAGEMENT GUIDELINES

HEIDELBERG MATERIALS CANADA LIMITED – NORTHWEST REGION

Title: *Wildlife and Wildlife Habitat Guideline*	**Document # :** LH-MG-004
Version: 2.0	**Revision Date:** March 2023

Purpose: To ensure the protection, avoidance, impact minimization and reclamation of wildlife and wildlife habitat at Heidelberg Materials Canada Limited (HMCL) sites.

Scope: This procedure applies to all HMCL Northwest (NW) Region aggregate mining locations including aggregate storage depots and material handling berths.

All operations are to be conducted in accordance with sound environmental principles, meeting regulatory standards and following industry best practices. The following stages of aggregate development offer various challenges and opportunities:

PERMITTING

When permitting a site/activity, wildlife presence and biodiversity areas will be identified via field studies. If mine plans allow, these areas may be avoided or compensation may be required for disturbances. Species setbacks, timing restrictions and other mitigation will be identified at this stage and built into mine planning. In addition, reclamation planning and final end land use decisions, including the potential to incorporate wildlife habitat in reclamation landscapes, will be considered at the permitting phase and included in reclamation plans and approval applications.

MINING

LHML is committed to operating in a manner which minimizes disturbance to wildlife. This includes avoiding potential wildlife habitat such as nesting areas, dens and other significant wildlife features in areas outside the planned extraction area. HMCL instructs workers not to approach or feed wildlife; to maintain a clean workspace; to cover and remove garbage or other animal attractants; and to report to management if aggressive or nuisance behavior is noted (ie, animals at waste disposal bins). In addition, all HMCL sites are no hunting zones. HMCL will contact the local Fish and Wildlife District Office for guidance on managing nuisance animals.

RECLAMATION

The goal of reclamation is to return the land to a state equivalent to pre-disturbance conditions with consideration for: local municipal requirements, adjacent land use and obtaining best value for the land. Balancing multiple possibilities and priorities is necessary, including opportunities to develop and enhance wildlife habitat within the landscape.

Consultation with the municipal representatives and other applicable stakeholders should occur to review the overall reclamation plan for a given site along with opportunities for increased or improved wildlife habitat. Where end land use will not be natural landscape (ie, residential or agricultural end land use), opportunities to increase wildlife habitat should be considered when establishing end pit lakes, storm water wetlands and other reclamation features into the final landscape.

Title: *Neighbour Water Supply Guideline*	**Document # :** LH-MG-002
Version: 2.0	**Revision Date: March 2023**

Purpose: To provide a consistent process for the investigation, mitigation and follow up of water well/supply concerns raised by stakeholders.

Scope: This procedure applies to all Heidelberg Materials Canada Limited (HMCL) Northwest (NW) Region aggregate mining locations including aggregate storage depots and material handling berths.

INITIAL RESPONSE

In the event that a neighbour to HMCL operations reports a water supply issue to HMCL or a regulatory agency, the following procedure will apply:

The HMCL representative will gather the following information:

- Name and contact information of the stakeholder
- Type and use of water supply (domestic/residential groundwater well, livestock watering)
- Location and description of the water source
- The nature of the impact (water quality or quantity)
- Groundwater Database ID number (if applicable)
- Request access for a qualified third party consultant to test/assess the water source

INVESTIGATION

If appropriate, HMCL will contact the applicable provincial and/or municipal agencies to inform them that a concern has been raised and that HMCL is working with the stakeholder to resolve the issue.

HMCL operations management will determine if dewatering is or has recently occurred within HMCL's operations, and which other industrial neighbours may be operating near the stakeholder's water source. If the water source is a groundwater well, the detailed well information will be accessed (if possible), including depth of well. If groundwater monitoring wells are present in the area that data will also be collected and analyzed for benchmarking and comparison purposes.

A qualified hydrogeological consultant will be retained by HMCL to review all available information, test the affected water source and determine the likely cause of the concern.

ACTION

If it is determined that HMCL activities caused the water supply issue HMCL will install, at HMCL's cost, a new water source with water quality and quantity equivalent to the affected water source. Arrangements may be made to accommodate affected individuals off site or with a temporary water supply until the new installation is complete.

HMCL will communicate to the appropriate regulatory agencies when the concerns have been investigated, mitigated and resolved to the stakeholders' satisfaction. All actions and outcomes will be documented and retained by HMCL for its records.

Monthly Dust Collector Inspection Form

(Internal Use Only)

This form is to be used at all divisions of Heidelberg Materials Canada Limied for internal monitoring of dust collection systems per regulatory requirements.

Heidelberg Materials

Heidelberg Materials Canada Limited – Northwest Region

Inspection Completed By: _____ **Date:** _____

Inspection Procedure:

1. **Complete the following inspection questions for each baghouse and/or silo top bin vent.**
2. **Describe corrective actions made to repair damaged baghouses or bin vents.**

****Follow All Safe Work Procedures for Top of Silo Access, Dust Exposure, and Lockout / Tagout****

Baghouse Location:	☐ **Cem GU**	☐ **Cem HS**	☐ **Cem Type50**	☐ **Sfume**	☐ **Flyash**	☐ **Other** _____ (Indicate)	☐ **Other** _____ (Indicate)
Baghouse Serial Number:							
Baghouse Entry Door/Lid:							
Holes or cracks	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Opens properly	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Closes properly	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Is There Moisture Inside Baghouse?							
	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Bag Shaker Mechanism:							
Moves freely	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Frame intact	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Works properly	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Bag Condition:							
Torn	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Missing	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Full	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Collapsed	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No

Inspection Results:

Baghouse in good working order?	☐	☐	☐	☐	☐	☐	☐
No repair required ?	☐	☐	☐	☐	☐	☐	☐
Repair required / completed ?	☐	☐	☐	☐	☐	☐	☐
Bags Replaced	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Quantity of Bags Replaced							
Reason for Replacement	☐ Service Due ☐ Bag Damaged	☐ Service Due ☐ Bag Damaged	☐ Service Due ☐ Bag Damaged	☐ Service Due ☐ Bag Damaged	☐ Service Due ☐ Bag Damaged	☐ Service Due ☐ Bag Damaged	☐ Service Due ☐ Bag Damaged

Notes on Required Repairs: _____

_____

THIS INSPECTION RECORD MUST BE KEPT ON FILE FOR 5 YEARS FROM THE DATE IT WAS CREATED.

Dust Complaint Record Form

This form is to be used at all divisions of Heidelberg Materials Canada Limited for internal reporting purposes only.

Heidelberg Materials Canada Limited – Northewest Region

SITE: _____ **BUSINESS LINE:** **AGG** **RMC** **CEM** **PIPE**

1. Date & Time of Complaint: _____
2. Name / Number of Recorder: _____
3. Specific Location: _____
4. Weather (moisture and temp.): _____
5. Legal Land Description: _____
6. Name / Number of Complainant: _____
7. Description of Complaint: _____

☐ Crusher Equip. ☐ Traffic / Heavy Equip. Operation ☐ Equipment Alarms ☐ Other _____

Details: _____

_____

_____

_____

8. Who Was Contacted? Record date, time, phone number & details of conversation (attach separate sheet if necessary)

☐ Client/Corporate Contact _____

☐ Mine Manager _____

☐ Environmental Manager _____

☐ Operations Manager _____

☐ Contractor _____

☐ Agency (EC, MOE, County, City, etc) _____

☐ Other _____

☐ Other _____

9. Are there mitigation measures to be implemented? ☐ Yes ☐ No If yes, describe the measures below or attach sheet if necessary.

_____

_____

10. Is there feedback required to the complainant? ☐ Yes ☐ No If yes, fill in date completed

11. Is there any further action required? ☐ Yes ☐ No

List actions that need to be taken with follow-up responsibility:

-
-
-

REVIEW & APPROVAL: (Review, sign, date and keep record on file)

ROUTE	NAME (Please Print)	SIGNATURE	DATE
Prepared By:			
Approved By:			

Effluent Treatment System Inspection Form

Heidelberg Materials Canada Limited – Northwest Region

This form is to be used at all divisions of Heidelberg Materials Canada Limited for internal reporting purposes only.

Facility Location: _____ Today's Weather: _____

Date of Inspection: _____ Inspected By : _____

Area	What To Look For?	Results	Comments / Follow-Up
pH Treatment	Probe Calibration *(verify that the system pH probes are accurate)*	As Found _____ As Left _____ RECORD pH BEFORE AND AFTER CALIBRATING PROBE. LOG ALL ADDITIONAL CALIBRATION RESULTS ON OTHER SIDE OF THIS RECORD.	
	Acid / CO_2 System (ensure that there is sufficient supply of Acid / CO_2)	CIRCLE Yes No IF NO, RE-ORDER AS REQUIRED.	
	Are all Pump(s) in Good Operation?	CIRCLE Yes No	
Settling Pond	Freeboard > 0.3m (the distance between the top of the water and the top of the pond must be >30 cm)	_____ cm IF <30 CM, CONSIDER DREDGING MATERIAL TO INCREASE CAPACITY.	
	Containment & Prevention of Run-Off (ensure that all stormwater is captured and prevented from running off-site without treatment)	CIRCLE Yes No IF NO, REDIRECT STORMWATER TOWARDS SUMP/POND(S).	
	Is the Pump(s) in Good Operation?	CIRCLE Yes No N/A	
	Is the Sump and Oil / Water Separator Clean & in Good Operation?	CIRCLE Yes No N/A	
	Are the Floc Curtains Still Effective?	CIRCLE Yes No N/A	

Additional pH Probe Calibration Events:

Date	pH As Found	pH As Left	Comments (eg. tip/probe replaced, buffer expired)	Initials

THIS INSPECTION RECORD MUST BE KEPT ON FILE FOR 5 YEARS FROM THE DATE IT WAS CREATED.

Environmental Incident Report

(Internal Use Only)

Heidelberg Materials

Heidelberg Materials Canada ***Limited*** – Northwest ***Region***

This form is to be used at all divisions of Heidelberg Materials Canada Limited
for internal reporting of all environmental incidents or near misses.

FACILITY INFORMATION:

Name of Facility: _____ Location: _____

Date & Time of Incident: _____ Detected By (include phone number): _____

Company Representative Notified: _____ Any Personal Injury (Complete Injury Report if Yes)?: ❑ **NO** ❑ **YES**

INCIDENT INFORMATION (if applicable):

Type of Incident: ❑ SPILL (unauthorized release/discharge of contaminants to environment) ❑ PERMIT LIMIT EXCEEDENCE (uncontrolled discharge)
❑ NEAR MISS (potential spill or exceedance)

Material Spilled:
❑ Gasoline ❑ Acid
❑ Diesel ❑ Flocculant
❑ Hydraulic/Lube ❑ Sediment
❑ Bunker ❑ Cement Dust
❑ Fly Ash ❑ Other: _____

Amount Spilled: _____ (SPECIFY UNITS: GALLONS, LITERS)

Amount Recovered: _____ (ESTIMATE QUANTITY-SPECIFY UNITS: GALLONS, LITERS)

APPARENT CAUSE OF INCIDENT:

❑ Equipment/Technology Failure (TYPE: VALVE, HOSE, CONVEYOR, ETC.)
❑ Fuel Tank Filling
❑ Vehicle Accident (VEHICLE INVOLVED): _____
❑ Human Error
❑ Containment Failure
❑ Natural Phenomenon (HEAVY RAIN OR WIND, FLOOD, EARTHQUAKE, ETC)
❑ Other
❑ Unknown

Weather
❑ Clear ❑ Rain
❑ Partly Cloudy ❑ Snow
❑ Cloudy ❑ Storm
❑ Fog

Outside Temperature _____ °C

Wind Direction & Speed
N
NW NE
W E
SW SE
S

Wind Speed _____ km/hr

RECEIVING ENVIRONMENT & AREA AFFECTED:

(Circle) Marine, River, Stream, Storm/Sanitary Sewer, Groundwater, Air, Soil, Other **(Name)** _____

(Estimate) Size or Dimension of Area Affected = _____

REGULATORY REPORTING (if required):

❑ **Provincial Emergency Program** 1-800-663-3456 ❑ **CANUTEC National Response Centre (TDG)** 1-613-996-6666
(spillsmust be reported immediately to PEP)

Reported To (Names of Agencies Contacted): _____ **Date & Time Reported:** _____

Comments / Report #: _____

DETAILED DESCRIPTION OF INCIDENT: (Attach extra pages, sketches, photos, if necessary.)

IMMEDIATE ACTIONS TAKEN TO CONTROL INCIDENT: (Refer to Emergency Response Plan.)

1.

2.

3.

4.

PREVENTION MEASURES: (Description of measures taken to prevent a recurrence, including changes to the operating or maintenance procedures, employee training and awareness, BMPs, etc.)

MANAGEMENT REVIEW & APPROVAL: (Review, sign & date to acknowledge approval and route to next person on list)

ROUTE	NAME (Please Print)	SIGNATURE	DATE
Prepared By:			
Site Supervisor / Manager:			
Operations Manager:			
Area Environmental & Sustainability Manager:			

FOLLOW-UP ACTIONS REQUIRED: (To Be Determined By Area Environmental Manager or designate)

- ❑ Documented Investigation
- ❑ Corrective Action Plan with Assigned Responsibilities
- ❑ Action Tracking and Follow-up
- ❑ Communication with Agency on Compliance
- ❑ No Further Investigation Required

Fuel Tank Inspection Form

(Internal Use Only)

This form is to be used at all divisions of Heidelberg Materials Canada Limited for internal reporting purposes only.

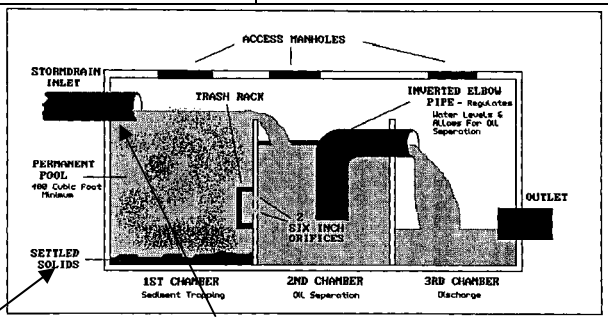
Heidelberg Materials

Heidelberg Materials Canada Limited – Northwest Region

Facility Location: _____ Tank Location: _____

Date of Inspection: _____ Inspected By : _____

Things to Check For:	√ OK *or* X Not OK *or* NA	Comments / Observations
A. Tank Site		
1. Clear access to tank for delivery/emergency truck		
2. Site is secure and access to dispensing unit/fill pipe is controlled (locked/cardlock)		
3. No soil staining in vicinity of fill and overflow pipes		
4. Collision protection provided on all sides		
5. Foundation is firm & fire resistant; tanks grounded		
6. No ignition/combustion sources within 7.5m		
7. Oil-water separator (OWS) drainage free of debris		
8. Spill containment for truck unloading area (impervious pad sloped to a slump & OWS)		
9. Adequate lighting provided and functioning		
B. Tank, Markings & Postings		
1. Contents marked on 2 sides, visible from 4.5m		
2. Containment uncompromised (berm is clear / vacuum guage reads >42 kPa)		
3. Emergency tank vent points to ground (or covered)		
4. Stairs/ladder/platform in good condition		
5. No apparent rust or damage to tank and pipes		
6. ULC label visible & volume provided on tank		
7. Proper product ID tag attached to valve (gas = red octagon & diesel = red circle)		
8. NO SMOKING WITHIN 7.5m sign posted on at tank and dispensing unit		
9. All fill pipes clearly labeled with product name		
10. Min 15L spill box at fill pipe for spill collection		
11. Tank has overflow protection device and/or alarm		
12. Fueling procedure is posted at dispenser		
13. Spill procedures with current phone #'s are posted		

C. Dispensing Unit		
1. Drip collection under dispensing equipment cleaned		
2. Hoses have compression fittings (no hose clamps)		
3. Hose is 4.5m long (max) or 6m with retraction		
4. Automatic shut-off nozzle visible		
5. Electrical connections are explosion proof		
6. 2 x 10lb ABC Fire Extinguishers accessible		
7. Spill Response Kit fully stocked and nearby		
8. Location of phone & remote emergency shut-off to dispensing unit in case of fire is clearly identified		
D. Emergency Plan, Training & Records		
1. Emergency Plan up to date and readily accessible		
2. Employees and Delivery Drivers' training current		
3. Records (training, inspection, measurements & maintenance) retained for at least 5 years		
E. Measurements & Preventative Maintenance		
1. Fuel Reconciliation	Diesel Tank Dip Level = _____	Gasoline Tank Dip Level = _____
2. Fuel dispenser meter calibrated every 2 years		
3. Is there visible rust forming or other signs of corrosion on the tank's emergency vents or internal lining which could cause a potential for tank rupture?		
4. Visual Leak Detection (VLD) of ASTs (double-walled) + aboveground piping without secondary containment required monthly.		
5. **OIL – WATER SEPARATOR MAINTENANCE (OWS)** **A. Height of Bottom Solids = _____ cm** (Solids > 15cm must be cleaned out within 7 days) **B. Height of Floating Oil&Grease = _____ cm** (Oil > 5cm must be cleaned out within 7 days)		

Follow-Up Actions Required:

#	Description	Responsibility	Due Date
1			
2			
3			

THIS INSPECTION RECORD MUST BE KEPT ON FILE FOR 5 YEARS FROM THE DATE IT WAS CREATED.

Quarterly Site Inspection Checklist - Prairies

Site		Date	
Inspector's Name			

Yes	No	Question	Action Required	Date Resolved
Housekeeping				
☐	☐	Is the site generally tidy and free of litter?		
☐	☐	Is material track out visible on public roads?		
Spill Prevention and Control				
☐	☐	Is there any visible staining or sheen?		
☐	☐	Are spill kits available on mobile/stationary equipment and at fuel tanks? Are they stocked?		
☐	☐	Are spill plans posted on site?		
☐	☐	Are equipment/vehicles/containers leaking fluid(s)?		
Hazardous Materials				
☐	☐	Is hazardous material/waste stored in dedicated locations?		
☐	☐	Are containers labeled correctly and in good condition?		
☐	☐	Are storage containers in secondary containment?		
☐	☐	Are required SDS available?		
☐	☐	Are fuel tanks in good condition and free from leaks?		
☐	☐	Are monthly fuel tank inspections completed/documented?		
☐	☐	Are collision barriers present at fuel tanks?		
☐	☐	Waste concrete/slurry is well managed/recycled?		
Air Quality				
☐	☐	Is dust a problem on site? Are suppressants applied?		
☐	☐	Are weekly baghouse inspections completed/documented?		
Stormwater				
☐	☐	Is stormwater exiting the site at non-permitted locations?		
☐	☐	Are catch basins and oil/water separators functioning?		
☐	☐	Are discharge areas free of erosion, sediment build up (on land) or turbidity, color changes (if to water)?		
☐	☐	Is process water tested/treated for pH prior to discharge? Has this been documented?		
General Permit Compliance				
☐	☐	Is topsoil and overburden stockpiled separately and placed on stable surfaces?		
☐	☐	Are all activities limited to within the permitted boundary?		
☐	☐	Any wildlife incidents or observations?		
☐	☐	Are all site permits available on site?		
☐	☐	Are weeds present on site?		