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The *Workers Compensation Act* requires that the employer must post a copy of this report in a conspicuous place at or near the workplace inspected for at least seven days, or until compliance has been achieved, whichever is the longer period. A copy of this report must also be given to the joint committee or worker health and safety representative, as applicable.

Inspection Report #201711321016A

Employer Name	Jobsite Inspected	Scope of Inspection
CITY OF PENTICTON	Waste Water Treatment Facility 459 Waterloo Avenue Penticton BC	CITY OF PENTICTON - Alternative Measures for Bio-rectors

Date of Initiating Inspection	Date of This Inspection	Delivery Date of This Report	Delivery Method
Mar 09, 2017	Mar 09, 2017	Mar 21, 2017	Email

THERE ARE ZERO (0) ORDERS OR OTHER ITEMS OUTSTANDING

<p>ACTION MAY STILL BE NECESSARY TO ENSURE COMPLIANCE PLEASE READ FULL REPORT</p>
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INSPECTION NOTES

Application for acceptance

The employer has requested that WorkSafeBC accept alternate measures under section 9.22 of the Occupational Health and Safety Regulation. The employer has provided the following documents to support its request:

1. A request for alternative measures under OHS Regulation 9.22.
2. Year 2017 engineering certification from Pentagon Engineering Ltd. for Armtec gate, Victaulic valve for RAS line and Clow valve.
3. HIRA sheet for hazard assessment.
4. Any potential leakage from the upstream concrete pipe will be continuously monitored by the standby person and monitored with audio/visual high level float. The downstream channel will also be monitored with a local audio/visual high level float.
5. Confined space entry procedure
6. Rescue plan
7. Lockout procedure
8. Engineering drawings with specifications
9. Schematic diagram of Bio-reactors.

Employer is planning to enter Bio-reactors which are open air rectangular concrete tanks to conduct regular maintenance work.

In accordance with OHS Guideline G9.22-2, a Prevention Officer may make the decision on behalf of WorkSafeBC in this case.

Decision

The acceptance is granted to the employer, [City of Penticton], Firm No. [2474], who has responsibility to ensure that the terms of this acceptance are complied with. The acceptance is only applicable to the worksite at [459 Waterloo Avenue, Penticton]. If the location of the worksite changes or if the acceptance granted to one jobsite is to be applied to another jobsite, the employer must apply for another acceptance.

Special terms

The conditions and procedures set out in the above-noted documents must be complied with as well as the following:

All elements stated in the Alternative Measures of Controls for entry into Bio-reactors. Develop cleanup procedure in case workers get contaminated.

Posting

A copy of these terms, along with any documents to which they refer, must be maintained at the worksite and be available for inspection by WorkSafeBC officers. The same documents must be posted on a suitable bulletin board in legible condition for the period of the acceptance. If affected workers will not receive notice by posting on a bulletin board, then the acceptance must be otherwise made known to all affected workers.

Joint committee

A copy of these terms, along with any documents to which they refer, must be given to the Joint Occupational Health and Safety Committee or to the Worker Health and Safety Representative, as applicable.

Time-limited

The acceptance will be valid for the duration of the project, but for no longer than [2 years] from the date of this acceptance.

Verification

The worksite may be inspected by WorkSafeBC officers to confirm these terms are being met.

Failure to comply

If the terms and conditions of this acceptance are not complied with, the acceptance may be deemed to be void. Any non-compliance with the terms and conditions of this acceptance, or other infractions relating to the subject matter of the acceptance, may result in imposition of orders and administrative penalties.

Validity

The granting of this acceptance is based on the completeness and accuracy of the information provided to WorkSafeBC. Any failure to have provided complete and accurate information may result in revocation of the acceptance and imposition of orders and administrative penalties.

Reconsideration

WorkSafeBC may reconsider the granting of the acceptance, or its terms, if it is later found to have been granted in error, new information is received since it was granted or the applicable Occupational Health and Safety Regulation provisions are substantively amended.

The City of Penticton operates Waste Water Treatment facility located at 459 Waterloo Avenue. This plant treats waste water for the City of Penticton. The facility have developed "Alternate Measures" for entry into a bio-reactors (moderate confined space based on hazard assessment). They have two bio-reactors and are planning to perform regular maintenance work in the bio-reactors. Both bio-reactors are open air rectangular concrete tanks with 11 separate cells. The bio-reactors are located between the secondary clarifier and primary effluent splitter box. The city has submitted a request for acceptance of the Alternate Measures under Occupational Health and Safety Regulation 9.22.

The employer states that isolation of the confined space using measures specified in Occupational health and safety Regulation 9.18 is not practicable due to the original design of the facility. The alternative measures has been developed because the space cannot be isolated by "Double block and bleed" or blind flange. According to employer, the worker representatives has been consulted with respect to the alternative measures.

Main elements of the submission is located in the attachment.

The employer has submitted the following to WorkSafeBC:

1. A request for alternative measures under OHS Regulation 9.22.
2. Year 2017 engineering certification from Pentagon Engineering Ltd. for Armtec gate, Victaulic valve for RAS line and Clow valve.
3. HIRA sheet for hazard assessment.
4. Any potential leakage from the upstream concrete pipe will be continuously monitored by the standby person and monitored with audio/visual high level float. The downstream channel will also be monitored with a local audio/visual high level float.
5. Confined space entry procedure
6. Rescue plan
7. Lockout procedure
8. Engineering drawings with specifications
9. Schematic diagram of bio-reactors.

Deepak Chadda (OHO) visited the work site on March 9, 2017 and reviewed the submission in accordance with the guideline OHS Regulation 9.22. The City of Penticton request for acceptance for alternative measures is granted from issuance of this inspection report. It is applicable only for workers entering bio-reactors to perform regular maintenance.

Acceptance of the alternative measures is granted, provided:

-The employer ensures compliance with other provisions of the OHS Regulation, such as requirements for lockout, addressing

slipping and tripping hazards, electrical hazards, rescue planning, worker training, etc

- WCA Act 115(2)(e): An employer must provide to the workers the information, instruction, training and supervision necessary to ensure the health and safety of those workers in carrying their work and to ensure the health and safety of other workers at the workplace.
- OH&S Reg 9.22: A measure specified in section 9.18 to control or isolate harmful substances contained in adjacent piping from a confined space is not practicable, and the employer implements alternative measures of control or isolation that are acceptable to the Board.
- Clean, respirable air to be shown during pre-entry testing and continuous atmosphere monitoring. The facility must immediately notify WorkSafeBC and conduct an investigation if clean, respirable air is not shown during pre-entry testing and monitoring.
- Primary clarifier is inspected prior to each use and follow the requirements of a professional engineer. Ensure that all gates are capable of tolerating stress imposed on them.
- Rescue Plan is developed, which includes the practice exercise.
- Work permit to be used which must specify fixed time of entry by workers for daily work
- Confined space emergency procedure is developed
- Ensure that OH&S committee was consulted
- Cleanup procedure in case workers get contaminated
- All relevant sections of part 9 apply.

The decision to accept these alternative measures focuses on the issue of alternate measures for isolation of the confined space under section 9.22 of the OHS Regulation. The decision does not address compliance with other provisions of the Regulation and must not be taken as an endorsement of the overall confined space program for the site.

WorkSafeBC may reconsider the granting of the acceptance, or its terms, if it is later found to have been granted in error, new information is received, or the applicable OHS Regulation provisions are amended. The employer must post a copy of the inspection report at the work site as required by the OHS Regulation.

WorkSafeBC has a wide range of health and safety information. For general questions regarding workplace health and safety, call toll free within BC 1-888-621-SAFE(7233). For more information, visit www.worksafefbc.com

If you have any questions related to this inspection report, please contact:

Deepak Chadda, Occupational Hygiene Officer

WorkSafeBC

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Kelowna, BC

V1Y 9T5

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Fax (250) 717-4380

Email: deepak.chadda@worksafefbc.com

REFERENCES

In addition to any orders, or other items, and the information provided in the Inspection Notes section in this Inspection Report, the officer may discuss other health and safety issues with the employer arising out of the inspection. The information below sets out the health and safety requirements discussed with the employer, and unless otherwise noted, violations of these requirements were not observed.

Reference	Details Discussed
<p>OHS9.22(1)</p> <hr/> <p>Section 9.18 does not apply if</p> <p>(a) a measure specified in section 9.18 to control or isolate harmful substances contained in adjacent piping from a confined space is not practicable, and</p> <p>(b) the employer implements alternative measures of control or isolation that are acceptable to the Board.</p>	<p>Alternative measures control was developed to enter Bio-reactors to conduct regular maintenance work.</p>

Employer #	Mailing Address	Classification Unit #	Operating Location
2074	171 MAIN ST PENTICTON BC V2A 5A9	753004	006

Lab Samples Taken	Direct Readings	Results Presented	Sampling Inspection(s)	Workers onsite during Inspection	Notice of Project Number
N	N	N		10	

Inspection Report Delivered To	Employer Representative Present During Inspection	Worker Representative Present During Inspection	Labour Organization & Local
Randy Craig	Randy Craig	Glenn Robertson	

WorkSafeBC Officer Conducting Inspection
Deepak Chadda

*Inspection Time	*Travel Time
7.00 hrs	1.00 hrs

*The time recorded above reflects the inspection time and travel time associated with this inspection report and includes time spent on pre and post-inspection activities. Additional time may be added for subsequent activity.

Right to Review

Any employer, worker, owner, supplier, union, or a member of a deceased worker's family directly affected may, within 45 calendar days of the delivery date of this report, in writing, request the Review Division of WorkSafeBC to conduct a review of an order, or the non-issuance of an order, by contacting the Review Division. Employers requiring assistance may contact the Employers' Advisers at 1-800-925-2233.

WorkSafeBC values your feedback. To obtain that feedback, an external market research provider may be contacting you to complete a survey.