



STATE OF NEVADA

Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION

Brian Sandoval, Governor

Leo M. Drozdoff, P.E., Director

Colleen Cripps, Ph.D., Administrator

FACTSHEET (pursuant to NAC 445A.236)

Permittee Name: FIRTH RIXSON VIKING METALLURGICAL
PO BOX 339
VERDI, NV - 89439

Permit Number: NS0000021

Location: FIRTH RIXSON VIKING METALLURGICAL, WASHOE
1 ERIK CIRCLE, VERDI, NV - 89439
LATITUDE: 39.522222, LONGITUDE: -119.9775
TOWNSHIP: T19N, RANGE: R18E, SECTION: 08

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	MONITORING WELL V-1	Monitoring Well	42742	VERDI	NV	89439	WASHOE	39.522222	-119.977222	GROUNDWATER
002	MONITORING WELL V-2	Monitoring Well	42744	VERDI	NV	89439	WASHOE	39.522222	-119.977222	GROUNDWATER
003	MONITORING WELL V-3	Monitoring Well	42746	VERDI	NV	89439	WASHOE	39.5225	-119.976944	GROUNDWATER

General:

Firth Rixson Viking Metallurgical (Viking) manufactures nonferrous seamless rolled rings for the aerospace and power generation industries. The manufacturing facility is located in Verdi between Old Highway 40 and the Truckee River and dates from the early 1960's.

Some of the machinery used during the forging and shaping processes require cooling water. This cooling water may come in contact with hydraulic fluid and equipment lubricants. The cooling water is maintained in a closed-loop, fully contained storage and reuse system. Spent cooling water is collected in a series of sumps and is then piped to a cleanout box for large debris removal. From the cleanout box, water flows by gravity into two in series oil/water separators. Removed oil is collected in a 1,500-gallon above ground high density polypropylene (HDP) used-oil storage tank for removal by a licensed waste-oil disposal company. Water from the oil/water separators is then piped to a 50,000-gallon concrete pond (Shop Pond) where any remaining surface oil is removed by a Brill™ oil skimmer. Removed oils are discharged to the 1,500-gallon used-oil storage tank. Water from the Shop Pond is delivered on demand to the manufacturing equipment for reuse. The used-oil tank and the Shop Pond are equipped with high liquid level alarms. These alarms, which are inspected for proper operation once each day, signal the Permittee to contact their contracted waste-oil disposal company for oil or excess cooling water removal. Excess flows to the Shop Pond can be temporarily directed to either of two 10,000-gallon HDP storage tanks. All HDP storage tanks are located within concrete secondary containment structures.

Spent rinse water from a metal parts washing/degreasing operation is discharged to an evaporation tank. A steel ½ & ½ tank (i.e., half-exposed/half-buried) is no longer used for fluid storage and has been removed from this facility. Two 10,000-gallon HDP storage tanks that were previously used to store hydraulic fluid associated with a removed piece of equipment (cogging press) have been retained as emergency overflow containment for the Shop Pond.

Discharge Characteristics:

This is a fully contained system. Spent cooling water may contain traces of hydraulic fluid and equipment lubricants.

Receiving Water:

Not applicable.

Summary of Changes From Previous Permit:

The following permit changes have been made:

1. The 10,000-gallon steel ½ & ½ tank has been removed as an outfall.
2. The requirement to report the groundwater elevation in the three monitoring wells has been removed from the permit. The requirement to report the depth to groundwater has been retained.
3. The requirement to monitor two locations in the Truckee River has been removed from this permit. This facility has the potential to discharge to groundwater, this is not a surface water (NPDES) discharge permit.
4. Due to a new Permit naming convention at NDEP, Bureau of Water Pollution Control, the permit ID has been changed from NEV00021 to NS0000021. This change does not reflect a change in the type of permit being issued.

Proposed Effluent Limitations:

The discharge shall be limited and monitored by the Permittee as specified in the following tables:

Groundwater Monitoring Wells Table for Sample Location 001 (Monitoring Well V-1) To Be Reported Quarterly^[1]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	S a m p l e Type
Depth to water level ft below landsurface	Value	M&R Feet (ft)		Groundwater	001	Quarterly	VISUAL
Hydrocarbons, total petroleum	Value		<= 1.0 Milligrams per Liter (mg/L)	Groundwater	001	Quarterly	DISCRT
Oil & grease	Value		M&R Milligrams per Liter (mg/L)	Groundwater	001	Quarterly	DISCRT
Chemical Oxygen Demand (COD)	Value		M&R Milligrams per Liter (mg/L)	Groundwater	001	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Groundwater samples shall be taken only after purging at least three (3) well volumes of groundwater from each monitoring well.

Groundwater Monitoring Wells Table for Sample Location 002 (Monitoring Well V-2) To Be Reported Quarterly^[1]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	S a m p l e Type
Depth to water level ft below landsurface	Value	M&R Feet (ft)		Groundwater	002	Quarterly	VISUAL
Hydrocarbons, total petroleum	Value		<= 1.0 Milligrams per Liter (mg/L)	Groundwater	002	Quarterly	DISCRT
Oil & grease	Value		M&R Milligrams per Liter (mg/L)	Groundwater	002	Quarterly	DISCRT
Chemical Oxygen Demand (COD)	Value		M&R Milligrams per Liter (mg/L)	Groundwater	002	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Groundwater samples shall be taken only after purging at least three (3) well volumes of groundwater from each monitoring well.

Groundwater Monitoring Wells Table for Sample Location 003 (Monitoring Well V-3) To Be Reported Quarterly^[1]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Depth to water level ft below landsurface	Value	M&R Feet (ft)		Groundwater	003	Quarterly	VISUAL
Hydrocarbons, total petroleum	Value		<= 1.0 Milligrams per Liter (mg/L)	Groundwater	003	Quarterly	DISCRT
Oil & grease	Value		M&R Milligrams per Liter (mg/L)	Groundwater	003	Quarterly	DISCRT
Chemical Oxygen Demand (COD)	Value		M&R Milligrams per Liter (mg/L)	Groundwater	003	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

- Groundwater samples shall be taken only after purging at least three (3) well volumes of groundwater from each monitoring well.

Rationale for Permit Requirements:

Monitoring is required to ensure that no discharge from the containment system has occurred.

Special Conditions:

SA – Special Approvals / Conditions Table

Item #	Description
1	If any discharge from the containment system occurs, the Permittee shall immediately identify the cause of the discharge and implement necessary measures to prevent any further release. The Permittee shall notify the Division within 24 hours by calling the NDEP Spill Hotline at (888) 331-6337 or (775) 687-9485.

Flow:

This is a fully contained system with water being discharged to, and recycled on demand from, the concrete shop pond. The system is not equipped with inlet or outlet flow meters.

Corrective Action Sites:

There are two NDEP Bureau of Corrective Actions remediation sites (4-000039 and D-000561) located within one mile of this facility. The NDEP case officers for these sites do not believe that the renewal of this permit will have a negative impact on the ongoing remediation activities at these locations.

Wellhead Protection Program:

The facility is located within the 3,000-foot Drinking Water Protection Area (DWPA) established for four public water supply wells and the 6,000-foot DWPA established for nine additional public water supply wells. Two of these wells are ranked as moderately vulnerable to inorganic compounds, volatile organic compounds and total coliform; two of the wells are rated as highly vulnerable to inorganic compounds.

A wellhead protection area has not been established for this area.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two (2) copies of an updated Operation and Maintenance (O&M) Manual for review and approval by the Division. The O&M Manual shall be prepared by a Nevada Registered Professional Engineer or other Division-approved qualified person. If no updates or revisions are required, the Permittee shall submit a letter by the due date stating that there have been no changes to the previously approved O&M Manual. ^[1]	3/31/2014

Notes (Schedule of Compliance Table):

- O&M Manuals prepared by Nevada Registered Professional Engineers must be signed and stamped in accordance with NAC 625.610.

Deliverable Schedule:

DLV– Deliverable Schedule for Reports, Plans, and Other Submittals

Item #	Description	Interval	First Scheduled Due Date
1	Discharge Monitoring Reports	Quarterly	1/28/2014
2	Annual Reports	Annually	1/28/2014

Procedures for Public Comment:

The Notice of the Division's intent to reissue a permit authorizing the facility to discharge to groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Reno Gazette Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing until 5:00 P.M. **1/21/2014**, a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of EPA Region IX or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted. Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted to accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.650.

Proposed Determination:

The Division has made the tentative determination to issue / re-issue the proposed 5-year permit.

Prepared by: **Arthur B. Marr III**

Date: **12/17/2013**

Title: **P.E.**