



**FACTSHEET**  
**(pursuant to NAC 445A.236)**

**Permittee Name:** NATIONAL WILD HORSE AND BURRO CENTER  
15780 SR 445  
RENO, NV - 89510

**Permit Number:** NV0023388

**Location:** NATIONAL WILD HORSE AND BURRO CENTER, WASHOE  
15780 SR 445, RENO, NV - 89510  
LATITUDE: 39.833333, LONGITUDE: -119.71  
TOWNSHIP: T22N, RANGE: R21E, SECTION: S7

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	FACILITY TOTALS	Internal Outfall		WASHOE COUNTY	NV	89423	WASHOE	39.833333	-119.71	WATERS OF THE STATE
002	STORMWATER EVAPORATION BASIN	Internal Outfall	50021	WASHOE COUNTY	NV	89423	WASHOE	39.833333	-119.71	WATERS OF THE STATE
003	STORMWATER DISCHARGE AT PROPERTY BOUNDARY	Internal Outfall	105067	WASHOE COUNTY	NV	89423	WASHOE	39.833333	-119.71	WATERS OF THE STATE
004	MANURE TESTING AND TRANSFER	Internal Outfall		WASHOE COUNTY	NV	89423	WASHOE	39.833333	-119.71	WATERS OF THE STATE

**General:**

The Permittee, National Wild Horse and Burro Center (NWHBC), has applied for renewal of their National Pollutant Discharge Elimination System (NPDES) permit NV0023388, to discharge manure and production area runoff in the event of a 25-year, 24-hour storm or chronic precipitation event. The NWHBC is located approximately 20 miles north of Sparks near the intersection of State Highway 445 and Ironwood Road.

NWHBC is defined as a concentrated animal feeding operation (CAFO) because the facility confines at least 500 horses and/or burros for 30 days or more in a 12-month period, in an area devoid of vegetation during the normal growing season. This short-term holding facility has a maximum capacity of 1800 animals. With rare exceptions, the facility only receives animals removed from Nevada rangelands.

As a CAFO, the NWHBC is required to contain all manure and runoff from the production area. An exception to this is a precipitation overflow resulting from a 25-year, 24-hour or larger storm or a chronic storm condition. To qualify for this exception, the production area must be properly designed, constructed, operated, and maintained to contain manure, direct precipitation and the runoff from a qualifying storm event. Facility construction at NWHBC is industry-typical with pipe corrals, movement alleys and chutes, feed storage areas and associated storage structures, maintenance facilities, and waste management and control structures. Stormwater collection, diversion and retention at the facility are comprised of 4-foot high earthen diversion berms, channels and a retention basin.

**Discharge Characteristics:**

The primary source of production area runoff from NWHBC is made up of manure mixed with associated precipitation events and incidental water usage for animal consumption. A 45-mil high-density polyethylene (HDPE) lined stormwater retention basin, with a storage capacity of 8.68 acre-feet, was designed and constructed to exceed the volumes required for containment of the 25-year, 24-hour storm event. The basin is equipped with an aeration system to reduce odors.

**Receiving Water:**

The Permittee will use a combination of evaporation and off-site transfer to manage manure and production area runoff. The Permittee may discharge manure and production area runoff in response to storm events or chronic rainfall events that exceed the 25-year, 24-hour storm design, provided that the facility's production areas are properly designed, constructed, operated and maintained to contain manure, pollutants, direct precipitation and the runoff from a 25-year, 24-hour storm event.

**Summary of Changes From Previous Permit:**

The structure of the permit has been revised and outfall designators renamed to be consistent with all NDEP CAFO permits.

While the requirement to monitor Total Nitrogen will remain, to be consistent with all NDEP CAFO permits, Total Kjeldahl Nitrogen, Nitrate as N, and Ammonia as N will be removed from monitoring requirements.

Fecal Coliform sampling will be removed from the stormwater basin monitoring and manure sampling, but will remain as a Stormwater sample requirement should there be an overflow due to a storm event or chronic precipitation event greater than the 25-year, 24-hour storm design.

**Proposed Effluent Limitations:**

There shall be no discharge from the facility property except as authorized by this permit.

During the period beginning on the effective date of this permit, the Permittee is authorized to discharge manure and production area runoff to waters of the State in response to storm events or chronic rainfall events that exceed the 25-year 24-hour storm design, provided that the production area is properly designed, constructed, operated and maintained to contain manure, pollutants, direct precipitation and the runoff from the 25-year 24-hour storm event.

**CAFO Discharge Limitations Table for Sample Location 001 (Facility Totals) To Be Reported Monthly**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Animals, total estimated no. of	30 Day Average		M&R Number (#)	Internal Monitoring Point	001	Monthly	CALCTD
Manure removed, gallons	30 Day Average		M&R Gallons (gal)	Internal Monitoring Point	001	Monthly	ESTIMA <sup>[1]</sup>
Manure remaining, gallons	30 Day Average		M&R Gallons (gal)	Internal Monitoring Point	001	Monthly	ESTIMA <sup>[2]</sup>
Manure, wet tons total	30 Day Average		M&R Tons (ton)	Internal Monitoring Point	001	Monthly	ESTIMA
Manure, wet tons removed	30 Day Average		M&R Tons (ton)	Internal Monitoring Point	001	Monthly	ESTIMA <sup>[1]</sup>

Notes (CAFO Discharge Limitations Table):

1. Estimate based on number of truck loads.
2. Estimate based on stormwater retention basin depth as provided by the depth marker.

**CAFO Discharge Limitations Table for Sample Location 002 (Stormwater Evaporation Basin) To Be Reported Annually**

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Phosphorus, total (as P)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
pH	Value		M&R Standard Units (SU)	Effluent Gross	002	Annual	DISCRT
Solids, total suspended	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
BOD, 5-day	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT

**CAFO Discharge Limitations Table for Sample Location 004 (Manure Testing And Transfer) To Be Reported Annually**

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Nitrogen, total	Daily Maximum		M&R Milligrams per Kilogram (mg/kg)	Internal Monitoring Point	004	Annual	DISCRT
Manure, wet tons removed	Annual Total		M&R Tons (ton)	Internal Monitoring Point	004	Annual	CALCTD
Phosphorus, total (as P)	Daily Maximum		M&R Milligrams per Kilogram (mg/kg)	Internal Monitoring Point	004	Annual	DISCRT

**Stormwater Discharges for Sample Location 003 (Stormwater Discharge At Property Boundary)  
To Be Reported Annually**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Receiving Water	003	Report <sup>[1]</sup>	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Receiving Water	003	Report <sup>[1]</sup>	DISCRT
Solids, total suspended	Daily Maximum		M&R Milligrams per Liter (mg/L)	Receiving Water	003	Report <sup>[1]</sup>	DISCRT
BOD, 5-day	Daily Maximum		M&R Milligrams per Liter (mg/L)	Receiving Water	003	Report <sup>[1]</sup>	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Receiving Water	003	Report <sup>[1]</sup>	DISCRT
Phosphorus, total (as P)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Receiving Water	003	Report <sup>[1]</sup>	DISCRT
Coliform, fecal general	Daily Maximum		M&R Most Probable Number per 100ml T (MPN/100mL)	Receiving Water	003	Report <sup>[1]</sup>	DISCRT
pH	Value		M&R Standard Units (SU)	Receiving Water	003	Report <sup>[1]</sup>	DISCRT
Flow, total	Daily Maximum	M&R Gallons (gal)		Receiving Water	003	Report <sup>[1]</sup>	DISCRT

**Notes (Stormwater Discharges):**

1. The Permittee shall report the date and time of each discharge and collect the sample within 30 minutes of first knowledge of the stormwater discharge. If sampling in that period is not possible due to dangerous weather conditions, the Permittee shall collect the sample as soon as possible after suitable conditions occur. The reason for the delay shall be documented.

**Rationale for Permit Requirements:**

Monitoring requirements for the parameters specified in the Discharge Limitations Tables of this permit are established to ensure that the Permittee has appropriate manure and production area runoff data to comply with the Division-reviewed Operations and Maintenance Manual and to determine any potential impacts to waters of the State that may occur in response to a storm related discharge.

The current permit is considered to be in substantial compliance with permit conditions.



**Special Conditions:**

## SA – Special Approvals / Conditions Table

Item #	Description
1	As indicated in the facility Operations and Maintenance Manual: <u>Collection Function Requirements</u> - The total required storage for the 25-year, 24-hour storm event is 8.68 acre-feet. <u>Transfer Function Requirements</u> - All manure solids are transferred off-site. All liquid manure is evaporated or transferred off-site. <u>System Evaluation</u> - There are no permitted land application areas associated with this permit.
2	Part A, Section A.6 - does not apply to this permit. A Certified Operator is not required for this facility.
3	Part B, Section B.CO.4 - does not apply to this permit. Applies only to Swine, Poultry, and Veal Calf operations.
4	Part B, Section B.CO.23 - does apply to this permit. There is no land application activity associated with this facility.
5	Part C, Section C.1.35 - does not apply to this permit. This section references treatment of domestic sewage in treatment works.
6	Part C, Section C.1.41 - does not apply to this permit. This section references land application of domestic sewage. There is no land application activity associated with this facility.
7	Part C, Section C.13 - does not apply to this permit. This section is for biosolids management from treatment facilities. Manure management at this facility is specifically addressed in the Division-reviewed Operations and Maintenance Manual.

**Flow:**

The proposed permit authorizes the discharge of manure and production area runoff in response to storm events that exceed the 25-year 24-hour storm event provided the facility is appropriately constructed and maintained. The stormwater discharge flow rate will not be limited by the permit and will be dependent upon the magnitude of the design storm event.

**Corrective Action Sites:**

There are no Bureau of Corrective Actions sites within a one-mile radius of the NWHBC.

**Wellhead Protection Program:**

The NWHBC is not located within an established Drinking Water Protection Area or Wellhead Protection Area.

**Schedule of Compliance:**

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	By December 16, 2016 all Discharge Monitoring Reports (DMRs) shall be submitted electronically through the Nevada NetDMR website: <a href="https://netdmr.ndep.nv.gov/netdmr/public/home.htm">https://netdmr.ndep.nv.gov/netdmr/public/home.htm</a>	12/16/2016
2	The Permittee shall submit for review an updated Operation and Maintenance (O&M) Manual, compiled in accordance with the Part B.CO.8 of this permit; Nutrient Management Plan (NMP). The O&M Manual (a.k.a. NMP) shall be prepared by a Nevada Registered Professional Engineer or Division approved qualified person. If prepared by a Nevada Registered Professional Engineer, the O&M Manual shall be wet stamped.	9/1/2016
3	To gather background data, the Permittee shall submit to the Division the results of a groundwater analysis from the most down gradient well located on the site. The groundwater shall be analyzed for the following:  1. Depth to water level (ft) below land surface  2. Solids, total dissolved (mg/L)  3. pH (SU)  4. Chlorides (as Cl) (mg/L)  5. Total Nitrogen (mg/L)	9/1/2016

**Deliverable Schedule:**

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Discharge Monitoring Reports	Quarterly	10/28/2016
2	Annual Discharge Monitoring Reports	Annually	1/28/2017
3	Annual Report	Annually	1/28/2017

**Procedures for Public Comment:**

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to surface waters 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. **5/17/2016**, 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.605.

**Proposed Determination:**

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

Prepared by: **Michele Reid**

Date: **4/11/2016**

Title: **Staff II Associate Engineer**