FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: GRANITE CONSTRUCTION CO
1900 GLENDALE AVENUE
SPARKS, NV - 89431

Permit Number: NV0024219

Location: SOUTHEAST CONNECTOR PHASE 2, WASHOE
1105 TERMINAL WAY, RENO, NV - 89502
LATITUDE: 39.51511070, LONGITUDE: -119.777996
TOWNSHIP: T19N, RANGE: R20E, SECTION: S18

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	DISCHARGE TO STEAMBOAT CREEK	External Outfall		RENO	NV	89502	WASHOE	39.47	-119.73	STEAMBOAT CREEK
AQL	AQUATIC LIFE LIMITS IMPACT RATIO	External Outfall		RENO	NV	89502	WASHOE	39.47	-119.73	STEAMBOAT CREEK

General:

The Regional Transporation Commission of Washoe County (RTC) has applied for a National Pollutant Discharge Elimination System (NPDES) permit to discharge groundwater generated during dewatering activities associated with construction of the Southeast Connector (SEC) Phase 2 project. The proposed SEC project consists of a 6-lane arterial roadway connecting Sparks Boulevard at Greg Street on the north to the existing terminus of Veterans Parkway at the intersection of South Meadows Parkway to the south. Phase 2 of the project will include construction of the arterial from south of Clean Water Way and ending at the existing intersection of South Meadows Parkway and Veterans Parkway. The roadway alignment will bisect the Steamboat Creek floodplain, and parallel Steamboat Creek through North and South Butler Ranch to Mira Loma Drive, through the Rosewood Lakes Golf Course to Pembroke Drive, and north through the former University of Nevada, Reno agricultural land to Clean Water Way.

Dewatering activities will be performed in accordance with the Division-reviewed dewatering and treatment plan. Prior to discharge to Steamboat Creek, the groundwater will need to be treated to reduce concentrations of boron, iron, manganese, zinc, arsenic, lead, and selenium to the limits listed in NAC 445A.1726 for this segment of Steamboat Creek and NAC 445A.1236 for the standards for all surface waters in Nevada.

The Permittee will implement a 3-step treatment process in order to meet the permit requirements: flocculation and sedimentation, filtration, and ion exchange.

Discharge Characteristics:

The majority of the project alignment is underlain by shallow groundwater. The discharge will consist of

shallow groundwater encountered during construction of the roadway.

Lab samples submitted with the application indicate that groundwater in the area exceed the standard set on Steamboat Creek for boron, iron, manganese, zinc, arsenic, lead, and selenium. Therefore, the Permittee will be required to treat the discharge for these constituents prior to discharging to Steamboat Creek.

Receiving Water:

The receiving water for the construction dewatering discharge is Steamboat Creek, which orginates in Washoe Valley and terminates at its confluence with the Truckee River. The standards for this segment of Steamboat Creek can be found in NAC 445A.1726. The standards set for all surface water bodies in Nevada can be found in NAC 445A.1236.

Summary of Changes From Previous Permit:

This is a new permit.

Proposed Effluent Limitations:

The Division proposes the following permit limitations and monitoring requirements:

Discharge Limitations Table for Sample Location 001 (Discharge To Steamboat Creek) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Lead, total (as Pb)	Daily Maximum		<= 0.100 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT
Arsenic, total (as As)	Daily Maximum		<= 0.100 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT
Boron, total (as B)	Daily Maximum		<= 0.750 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT
Iron, total (as Fe)	Daily Maximum		<= 1.000 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT
E. coli	Daily Maximum		<= 576 Number per 100 Milliliters T (#/100mL)	Effluent Gross	001	Monthly	DISCRT
Manganese, total (as Mn)	Daily Maximum		<= 0.200 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT
Mercury, total (as Hg)	Daily Maximum		<= 0.00077 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT
Flow rate	Daily Maximum	< 0.500 Million Gallons per Day (Mgal/d)		Effluent Gross	001	Continuous	METER
Flow rate	30 Day Average	< 0.500 Million Gallons per Day (Mgal/d)		Effluent Gross	001	Continuous	METER
Selenium, total (as Se)	Daily Maximum		<= 0.005 Milligrams per Liter	Effluent Gross	001	Monthly	DISCRT

Discharge Limitations Table for Sample Location 001 (Discharge To Steamboat Creek) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
			(mg/L)				
Zinc, total (as Zn)	Daily Maximum		<= 2.000 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT
Hardness, total (as CaCO3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT
Oxygen, dissolved (DO)	Daily Minimum		>= 3.0 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT

Discharge Limitations Table for Sample Location 001 (Discharge To Steamboat Creek) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
E. coli	Geometric Mean		<= 126 Number per 100 Milliliters T (#/100mL)	Effluent Gross	001	Annual	CALCTD
1,2,4-Trichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
1,2-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
1,2-Diphenylhydrazine	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
1,3-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
1,4-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
2,4-Dinitrotoluene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
2,6-Dinitrotoluene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
2-Chloronaphthalene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
3,3-Dichlorobenzidine	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
			M&R				

Discharge Limitations Table for Sample Location 001 (Discharge To Steamboat Creek) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
4-Bromophenyl phenyl ether	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
4-Chlorophenyl phenyl ether	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Acenaphthene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Acenaphthylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Anthracene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Benzidine	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Benzo(a)anthracene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Benzo(a)pyrene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Benzo(b)fluoranthene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Benzo(ghi)perylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
			M&R				

Discharge Limitations Table for Sample Location 001 (Discharge To Steamboat Creek) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Benzo(k)fluoranthene	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Bis(2-chloroethoxy)methane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Bis(2-chloroethyl) ether	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Bis(2-chloroisopropyl) ether	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Bis(2-ethylhexyl) phthalate	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Butyl benzyl phthalate	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Chrysene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Dibenzo(a,h)anthracene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Diethyl phthalate	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Dimethyl phthalate	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
			M&R				

Discharge Limitations Table for Sample Location 001 (Discharge To Steamboat Creek) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Di-n-butyl phthalate	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Di-n-octyl phthalate	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Fluoranthene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Fluorene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Hexachlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Hexachlorobutadiene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Hexachlorocyclopentadiene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Hexachloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Indeno(1,2,3-cd)pyrene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Isophorone	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
			M&R				

Discharge Limitations Table for Sample Location 001 (Discharge To Steamboat Creek) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Naphthalene	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Nitrobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
N-Nitrosodimethylamine (NDMA)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
N-Nitrosodi-N-propylamine	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
N-Nitrosodiphenylamine	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Phenanthrene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Pyrene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
1,1,1-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
1,1,2,2-Tetrachloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
1,1,2-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 001 (Discharge To Steamboat Creek) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
1,1-Dichloroethane	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
1,1-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
1,2-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
1,2-Dichloropropane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
trans-1,2-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
1,3-Dichloropropene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
2-Chloroethyl vinyl ether, (mixed)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Acrolein	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Acrylonitrile	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Benzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 001 (Discharge To Steamboat Creek) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Bromoform	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Carbon tetrachloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Chlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Chloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Chloroform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Dibromochloromethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Dichlorobromomethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Ethylbenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Methyl bromide (Bromomethane)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Methyl chloride (Chloromethane)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 001 (Discharge To Steamboat Creek) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Methylene chloride	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Tetrachloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Toluene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Trichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Vinyl chloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
4,4-DDD	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
4,4-DDE	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
4,4-DDT	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Aldrin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
.alpha.-BHC	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
			M&R				

Discharge Limitations Table for Sample Location 001 (Discharge To Steamboat Creek) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
.alpha.-Endosulfan	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
.beta.-BHC	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
.beta.-Endosulfan	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Chlordane (tech mix. and metabolites)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
.delta.-BHC	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Dieldrin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Endosulfan sulfate	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Endrin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Endrin aldehyde	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
.gamma.-BHC	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
			M&R				

Discharge Limitations Table for Sample Location 001 (Discharge To Steamboat Creek) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Heptachlor	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Heptachlor epoxide	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
PCB-1016	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
PCB-1221	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
PCB-1232	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
PCB-1242	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
PCB-1248	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
PCB-1254	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
PCB-1260	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Toxaphene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
			M&R				

Discharge Limitations Table for Sample Location 001 (Discharge To Steamboat Creek) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
2,4,6-Trichlorophenol	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
2,4-Dichlorophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
2,4-Dimethylphenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
2,4-Dinitrophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
2-Chlorophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
2-Methyl-4,6-dinitrophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
2-Nitrophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
4-Chloro-3-methylphenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
4-Nitrophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Pentachlorophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
			M&R				

Discharge Limitations Table for Sample Location 001 (Discharge To Steamboat Creek) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Phenol	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Antimony, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Arsenic, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Beryllium, total recoverable (as Be)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Cadmium, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Chromium, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Copper, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Lead, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Mercury, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Nickel, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
			M&R				

Discharge Limitations Table for Sample Location 001 (Discharge To Steamboat Creek) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Selenium, total recoverable	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Silver total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Thallium, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Zinc, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
2,3,7,8-Tetrachlorodibenzo-p-dioxin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS
Asbestos	Daily Maximum		M&R Fibers per Milliliter (Fib/mL)	Effluent Gross	001	Annual	COMPOS
Cyanide, total (as CN)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	COMPOS

Discharge Limitations Table for Sample Location Aql (Aquatic Life Limits) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Lead, total (as Pb)	Daily Maximum		<= 1.00 Ratio (Ratio)[1]	Effluent Gross	AQL	Monthly	CALCTD
Zinc, total (as Zn)	Daily Maximum		<= 1.00 Ratio (Ratio)[2]	Effluent Gross	AQL	Monthly	CALCTD

Notes (Discharge Limitations Table):

1. Per item #2 in the Special Approvals / Conditions table, report the calculation of the following equation: Pb/Limit, where:

   Pb= concentration of lead in mg/L in the sample, and
   Limit= $(1.46203-\{\ln(hardness)(0.145712)\})*e^{(1.273\{\ln(hardness)\} - 4.705)}$
2. Per item #3 in the Special Approvals / Conditions table, report the calculation of the following equation: Zn/Limit, where:

   Zn= concentration of zinc in mg/L in the sample, and
   Limit= $(0.978)\ e^{(0.8473\{\ln(hardness)\} + 0.884)}$

Rationale for Permit Requirements:

Monitoring is required to assess the quality of the discharge water and to ensure that the discharge will not negatively impact waters of the state.

The proposed permit is for discharging groundwater into a reach of Steamboat Creek that is listed on the 303(d) list of impaired waters. The receiving water is listed as impaired for Arsenic, Boron, Iron, and E. Coli; therefore, these constituents will be monitored monthly, and limited to the standards set forth in NAC 445A.1236 and NAC 445A.1726 for these constituents. The permit will also require monthly monitoring of Lead, Manganese, Selenium, and Zinc due to the necessity for treatment for these constituents before discharge into Steamboat Creek. Hardness will need to be sampled on a monthly basis in order to provide aquatic life analyses for Lead and Zinc. Dissolved Oxygen (DO) will be monitored monthly because there is a specific limitation for DO for this segment of Steamboat Creek, per NAC 445A.1726. Mercury will be monitored monthly because it is limited for all surface waters in NAC 445A.1236.

Samples submitted with the application show that pH and Ammonia will be within the standards set for them on Steamboat Creek.

Priority Pollutants will be monitored annually because they are limited for all surface water bodies, per NAC 445A.1236.

Special Conditions:

SA – Special Approvals / Conditions Table

Item #	Description
1	At least 14 days before discharging to Steamboat Creek or its tributaries, the Permittee shall inform NDEP in writing of their intention to begin treating and discharging intercepted groundwater.
2	The daily maximum concentration of lead shall be reported as a ratio calculated from the following equation: Ratio=Pb/Limit, where: Pb= concentration of lead in mg/L in the sample, and Limit= $(1.46203-\{\ln(hardness)(0.145712)\})*e^{(1.273\{\ln(hardness)\} - 4.705)}$
3	The daily maximum concentration of zinc shall be reported as a ratio calculated from the following equation: Ratio=Zn/Limit, where: Zn= concentration of zinc in mg/L in the sample, and Limit= $(0.978)*e^{(0.8473\{\ln(hardness)\} + 0.884)}$

Reasonable Potential Analysis and Antidegradation Review:

Steamboat Creek is on the 303(d) list for impaired waters. The reach of Steamboat Creek that this permit proposes to discharge into is impaired for Arsenic, Boron, Iron, and E. Coli. Discharges in accordance with this permit will not degrade waters of the state of Nevada. The proposed treatment process will be reviewed by NDEP prior to authorization to discharge to Steamboat Creek. The discharge will meet the water quality standards for Steamboat Creek in NAC 445A.1726 and for all surface waters in NAC 445A.1236 at the end of pipe; there will be no mixing zone.

Flow:

The Permittee has requested a flow limit of 0.5 million gallons per day (MGD) daily maximum and 30-day average.

Corrective Action Sites:

There are no Bureau of Corrective Actions sites within one mile of the proposed discharge areas in this permit.

Wellhead Protection Program:

This project is not within any Wellhead Protection Areas or Drinking Water Protection Areas.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit for review two copies of a new Operations and Maintenance (O&M) Manual, prepared in accordance with the Division's WTS-2 guidance: Minimum Information Required for an Operations and Maintenance Manual. The O&M Manual shall be prepared by a Nevada-registered Professional Engineer or other qualified person.	6/1/2016

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Report	Quarterly	7/28/2016
2	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. **12/21/2015** , 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.

Due to the degree of interest in this proposed project, the Division has scheduled a Public Hearing to gather additional public input regarding the draft permit. The Public Hearing has been scheduled for Tuesday, December 15, 2015 at 1:00 PM at the Western Nevada College located at 2201 West College Parkway, in the Cedar Building Room #100, Carson City, Nevada.

Members of the public wishing to comment upon the proposed permit and/or recommend terms and conditions for consideration of incorporation in the permit are invited to attend the hearing meeting and provide comments and information that are pertinent to the discharge permit. Comments not related to water quality issues cannot be considered. The Division may set a five-minute time limit for oral statements based on the number of people in attendance who would like to comment. Comments and information may be submitted by interested persons through the close of the public notice period.

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: **Robert Wimer**
Date: **11/13/2015**
Title: **E.I.**