



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: SOUTHERN NEVADA WATER AUTHORITY

PO BOX 99956
LAS VEGAS, NV 89193

Permit Number: NS2024512

Permit Type: GROUNDWATER DISCHARGE

Designation: GROUNDWATER

New/Existing: NEW

Location: GARNET VALLEY WATER SYSTEM-TRANSMISSION PIPELINE, CLARK
N. LAMB BLVD, NORTH LAS VEGAS, NV 89086
LATITUDE: 36.291404, LONGITUDE: -115.079540
TOWNSHIP: 19S, RANGE: 62E, SECTION: 20

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
E01	E1 WASH	External Outfall		36.291953	-115.044312	GROUNDWATER
E02	E2 WASH	External Outfall		36.306273	-115.000171	GROUNDWATER
E03	E3 WASH	External Outfall		36.308174	-114.991366	GROUNDWATER

Permit History/Description of Proposed Action

This is a new permit. The applicant, Southern Nevada Water Authority (SNWA), has applied for a new individual working in waterways permit for the "Garnet Valley Water System" project. The approximately seven (7) mile long project corridor is located north of Highway 215 on public land managed by the Bureau of Land Management in North Las Vegas, Clark County. The applicant is proposing to operate heavy equipment (rolling stock) within three (3) unnamed ephemeral washes for the installation of a new potable water transmission pipeline. Best Management Practices (BMPs) shall be utilized to prevent erosion and degradation of waters of the State.

Facility Overview

SNWA is installing a potable water transmission pipeline, which is part of the Garnet Valley Water system. Construction will cross washes three (3) separate times. The construction is anticipated to take approximately two (2) years. No discharges to waters of the State are anticipated.

Outfall Summary

Outfall E01 is wash crossing E1 as delineated on the map submitted by the applicant (attached).

Outfall E02 is wash crossing E2 as delineated on the map submitted by the applicant (attached).

Outfall E03 is wash crossing E3 as delineated on the map submitted by the applicant (attached).

Effluent Characterization

No discharge is planned, this permit authorizes operating heavy equipment (rolling stock) within waters of

the State.

Pollutants of Concern

Pollutants of concern are any pollutants or parameters that are believed to be present in the discharge and could affect or alter the physical, chemical, or biological condition of the receiving water. Common pollutants of concern for this project are total petroleum hydrocarbons (TPH), caused by accidental TPH discharge from equipment operating in and around the ephemeral streams and Turbidity, due to construction activities causing potential plume events.

Receiving Water

Groundwater of the State via three (3) unnamed ephemeral washes (subject washes) that flow to and terminate at the Nellis Air Force Municipal Separate Storm Sewer Systems (MS4) (permit NS2017505) have been delineated onsite (attached). Review of available information indicates that the subject washes flow or pool only in direct response to precipitation (e.g., rain or snow fall) and are not waters of the U.S. but excluded waters or features (CWA Exclusion (b)(3)). Review of Google Earth aerial photography from typically wet periods (12/30/1985, 4/7/2010, 12/30/2009, 2/20/2014, 3/24/2014, 3/19/2015, 3/22/2015, 3/15/2016, 11/17/2017, 2/13/2020 and 3/26/2021) did not reveal the presence of surface water anywhere within the review area. The combination of local climate (arid) and the substrate of the washes are consistent with the observed ephemeral nature of the subject washes. The subject washes receive hydrologic input from direct precipitation and runoff. No adjacent or abutting wetlands, springs or seeps which could contribute water have been identified. These data support the conclusions that the subject washes are ephemeral and that during normal conditions water discharged on site is not anticipated to reach any water of the U.S.

Compliance History

This is a new permit.

Proposed Effluent Limitations

The discharge shall be limited and monitored by the Permittee as specified below:

Zero Discharge Limitations Table for Sample Location 001 (Wash E1) To Be Reported Quarterly^[5]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Area inspection visual	Value	M&R Pass=0 Fail=1 (pass/fail)		See Footnote ^[1]	E01	Daily	VISUAL
Hydrocarbons, total petroleum	Daily Maximum		<= 1.0 Milligrams per Liter (mg/L)	See Footnote ^[2]	E01	Instantaneous ^[2]	DISCRT
Turbidity	Daily Maximum		<= 50 Nephelometric Turbidity Units (NTU)	See Footnote ^[3]	E01	Instantaneous ^[4]	GRAB ^[3]

Notes (Zero Discharge Limitations Table):

1. Observe and report the condition of BMPs. If functioning properly, report "0". If malfunctioning or not installed report "1". Please see Special Approvals / Conditions Table item #10.
2. Sample the affected water in the event of a visible sheen, or equipment leak within 100 feet of the active project work areas, resulting in a spill in or near the waterway. Report to NDEP immediately. This limit applies to each spill event.
3. If a visible turbidity plume is generated work shall cease immediately, and grab samples shall be taken from the center of the plume at a location that is 200 feet downstream, and a location that is 100 feet upstream of the work area. The turbidity must be measured with a calibrated field meter, following the regulation by ISO 7027:2:2019 and follow specific criteria listed by the USEPA 180:2 method and 2130 B standard method. The net increase shall be calculated as the value at 200 feet downstream minus the value at 100 feet upstream. The width and depth of the plume must be estimated at that time and recorded. BMPs must be reevaluated to stabilize the situation prior to resuming work
4. Visually monitor turbidity continuously when active work is occurring in a wash with water. If a visual sediment plume occurs that originates from the work area, sample at the outfall using a handheld turbidimeter or other field instrument: record all values in a water quality logbook and report maximum daily values for each outfall.
5. If no discharge occurs, please use no data indicator (NODI) code "C" when reporting to NetDMR.

Zero Discharge Limitations Table for Sample Location 002 (Wash E2) To Be Reported Quarterly^[5]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Area inspection visual	Value	M&R Pass=0 Fail=1 (pass/fail)		See Footnote ^[1]	E02	Daily	VISUAL
Hydrocarbons, total petroleum	Daily Maximum		<= 1.0 Milligrams per Liter (mg/L)	See Footnote ^[2]	E02	Instantaneous ^[2]	DISCRT
Turbidity	Daily Maximum		<= 50 Nephelometric Turbidity Units (NTU)	See Footnote ^[3]	E02	Instantaneous ^[4]	GRAB ^[3]

Notes (Zero Discharge Limitations Table):

1. Observe and report the condition of BMPs. If functioning properly, report "0". If malfunctioning or not installed report "1". Please see Special Approvals / Conditions Table item #10.
2. Sample the affected water in the event of a visible sheen, or equipment leak within 100 feet of the active project work areas, resulting in a spill in or near the waterway. Report to NDEP immediately. This limit applies to each spill event.
3. If a visible turbidity plume is generated work shall cease immediately, and grab samples shall be taken from the center of the plume at a location that is 200 feet downstream, and a location that is 100 feet upstream of the work area. The turbidity must be measured with a calibrated field meter, following the regulation by ISO 7027:2:2019 and follow specific criteria listed by the USEPA 180:2 method and 2130 B standard method. The net increase shall be calculated as the value at 200 feet downstream minus the value at 100 feet upstream. The width and depth of the plume must be estimated at that time and recorded. BMPs must be reevaluated to stabilize the situation prior to resuming work
4. Visually monitor turbidity continuously when active work is occurring in a channel with water. If a visual sediment plume occurs that originates from the work area, sample at the outfall using a handheld turbidimeter or other field instrument: record all values in a water quality logbook, and report maximum daily values for each outfall.
5. If no discharge occurs, please use no data indicator (NODI) code "C" when reporting to NetDMR.

Zero Discharge Limitations Table for Sample Location 003 (Wash E3) To Be Reported Quarterly^[5]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Area inspection visual	Value	M&R Pass=0 Fail=1 (pass/fail)		See Footnote ^[1]	E03	Daily	VISUAL
Hydrocarbons, total petroleum	Daily Maximum		<= 1.0 Milligrams per Liter (mg/L)	See Footnote ^[2]	E03	Instantaneous ^[2]	DISCRT
Turbidity	Daily Maximum		<= 50 Nephelometric Turbidity Units (NTU)	See Footnote ^[3]	E03	Instantaneous ^[4]	GRAB ^[3]

Notes (Zero Discharge Limitations Table):

1. Observe and report the condition of BMPs. If functioning properly, report "0". If malfunctioning or not installed report "1". Please see Special Approvals / Conditions Table item #10.
2. Sample the affected water in the event of a visible sheen, or equipment leak within 100 feet of the active project work areas, resulting in a spill in or near the waterway. Report to NDEP immediately. This limit applies to each spill event.
3. If a visible turbidity plume is generated work shall cease immediately, and grab samples shall be taken from the center of the plume at a location that is 200 feet downstream, and a location that is 100 feet upstream of the work area. The turbidity must be measured with a calibrated field meter, following the regulation by ISO 7027:2:2019 and follow specific criteria listed by the USEPA 180:2 method and 2130 B standard method. The net increase shall be calculated as the value at 200 feet downstream minus the value at 100 feet upstream. The width and depth of the plume must be estimated at that time and recorded. BMPs must be reevaluated to stabilize the situation prior to resuming work
4. Visually monitor turbidity continuously when active work is occurring in a channel with water. If a visual sediment plume occurs that originates from the work area, sample at the outfall using a handheld turbidimeter or other field instrument: record all values in a water quality logbook, and report maximum daily values for each outfall.
5. If no discharge occurs, please use no data indicator (NODI) code "C" when reporting to NetDMR.

Summary of Changes From Previous Permit

This is a new permit.

Technology Based Effluent Limitations

Technology based effluent limitations are not applicable to this permit.

Water Quality Based Effluent Limitations

Water quality based effluent limitations are not applicable to this permit.

Proposed Water Quality Based Effluent Limits (monthly/weekly/daily)

Water quality based effluent limitations are not applicable to this permit.

Basis for Effluent Limitations

The Division has established the monitoring requirements in above tables to ensure that waters of the State are not degraded as a result of project activities. Quarterly reporting is adequate based on the nature of the proposed work and local atmospheric conditions (arid).

The 50 NTU value is consistent with the limitations for turbidity established in temporary discharge permits issued by the Division that authorize the operation of heavy equipment and work in waters of the State.

Total petroleum hydrocarbons (TPH) are required to be under the Bureau of Corrective Actions action level of 1.0 mg/L in any discharges to the groundwater. TPH are limited to 1.0 mg/L per the State action level for remediation projects, and therefore will be sampled for in the event of a spill.

Permit requirements are included to ensure protection of human health and waters of the State. Daily visual

inspection of equipment and BMPs is required so the Permittee can identify and correct potential pollution before discharge to a water of the State and for the protection of the environment.

Anti-backsliding

To prevent backsliding, effluent limitations in a reissued permit are required to be as stringent as those in the previous permit. As this is a new permit, anti-backsliding is not applicable.

Antidegradation

The Division has developed an antidegradation regulation that is applied on a statewide basis, and which meets the statutory requirements of Nevada's water pollution control law found at Nevada Revised Statute (NRS) 445A.520 and NRS 445A.565 and is consistent with the federal antidegradation policy found at Title 40 in the Code of Federal Regulations (CFR) § 131.12. The objective of the Division's antidegradation regulation is to prevent degradation of Nevada's surface waters and maintain the unique attributes and special characteristics and water quality associated with high-quality waters.

As there are no discharges authorized under this permit, the new antidegradation rule is not applicable.

Special Conditions

This permit is for working in waterways, the Special Conditions are to protect the waterways where work will be performed.

SA – Special Approvals / Conditions Table

Item #	Description
1	Spill containment equipment shall be readily available for use as needed.
2	All equipment shall be inspected for leaks daily prior to use and periodically throughout the day.
3	The Permittee bears the responsibility to ensure that the requirements of this permit are fully satisfied.
4	All equipment fueling and storage of fuels shall be located offsite and at least 100 feet away from any water of the State.
5	Any heavy equipment to be used in the work area must be steam cleaned at least once before work in the water bodies commences.
6	No work or stockpiling will be done with an approaching storm, or during a precipitation event and BMPs will be in place prior to a storm event.
7	Presumption of Possession and Compliance: Copies of this permit and any subsequent modifications shall be maintained at the permitted project site at all times.
8	Sample the affected water in the event of a visible sheen, or equipment leak within 100 feet of the active project work areas, resulting in a spill in or near the waterway. Report to NDEP immediately.
9	Best Management Practices (BMPs) shall be applied and precautions shall be taken to prevent and control releases of debris, sediment, any transport of sediments, and to prevent and control turbidity in the waterbody during construction activities.
10	Other BMPs may include but are not limited to construction fences, trackout devices, vegetation protection, and other BMPs as consistent with applicable BMP manuals and handbooks. If at any time the current BMPs are not effective, consultation with the Division is required prior to work resuming.
11	If a visible turbidity plume is generated work shall cease immediately, and grab samples shall be taken from the center of the plume at a location that is 200 feet downstream, and a location that is 100 feet upstream of the work area. The turbidity must be measured with a calibrated field meter, following the regulation by ISO 7027:2:2019 and follow specific criteria listed by the USEPA 180:2 method and 2130 B standard method. The net increase shall be calculated as the value at 200 feet downstream minus the value at 100 feet upstream. The width and depth of the plume must be estimated at that time and recorded. BMPs must be reevaluated to stabilize the situation prior to resuming work
12	Section C.2 of the permit is not applicable, the Permittee shall operate in accordance with an approved BMP Plan.
13	Section B of the permit is not applicable.
14	If no discharge occurs, please use no data indicator (NODI) code "C" when reporting to NetDMR.

Discharges From Future Outfalls/ Planned Facility Changes

No changes are planned.

Corrective Action Sites

There are two (2) Bureau of Corrective Actions remediation sites located within a one (1) mile radius of the proposed project, one (1) closed site (site number 783, release of Diesel to ground) and one (1) open site (site number 1445, release of Diesel to ground).

Wellhead Protection Program

The closest Public Water System (PWS) well is located approximately 2.7 miles east of the outfall 003. There are several more wells located northeast and southwest of the discharge location. The outfalls are not located within a Drinking Water Protection Area, which is defined by a 3,000-foot radius around a PWS well, or a Wellhead Protection Area, which represents an approximate 10-year capture zone of a well.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two (2) copies (one (1) electronic and one (1) hard copy) of a BMP plan for review and approval by the Division. The plan shall be prepared by a Nevada-registered Professional Engineer or Certified Environmental Manager. The BMP must be approved by the Division prior to the commencement of any construction activities.	5/1/2025

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Discharge Monitoring Reports	Quarterly	7/28/2025

Procedures for Public Comment:

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to groundwater of the State of Nevada subject to the conditions contained within the permit, is being mailed to interested persons on our mailing list and will be posted on our website at <https://ndep.nv.gov/posts>. Anyone wishing to comment on the proposed permit can do so in writing until 5:00 P.M. **11/8/2024**, 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 in 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: **Aaron Park**

Date: **10/3/2024**

Title: **Staff I, Associate Engineer**



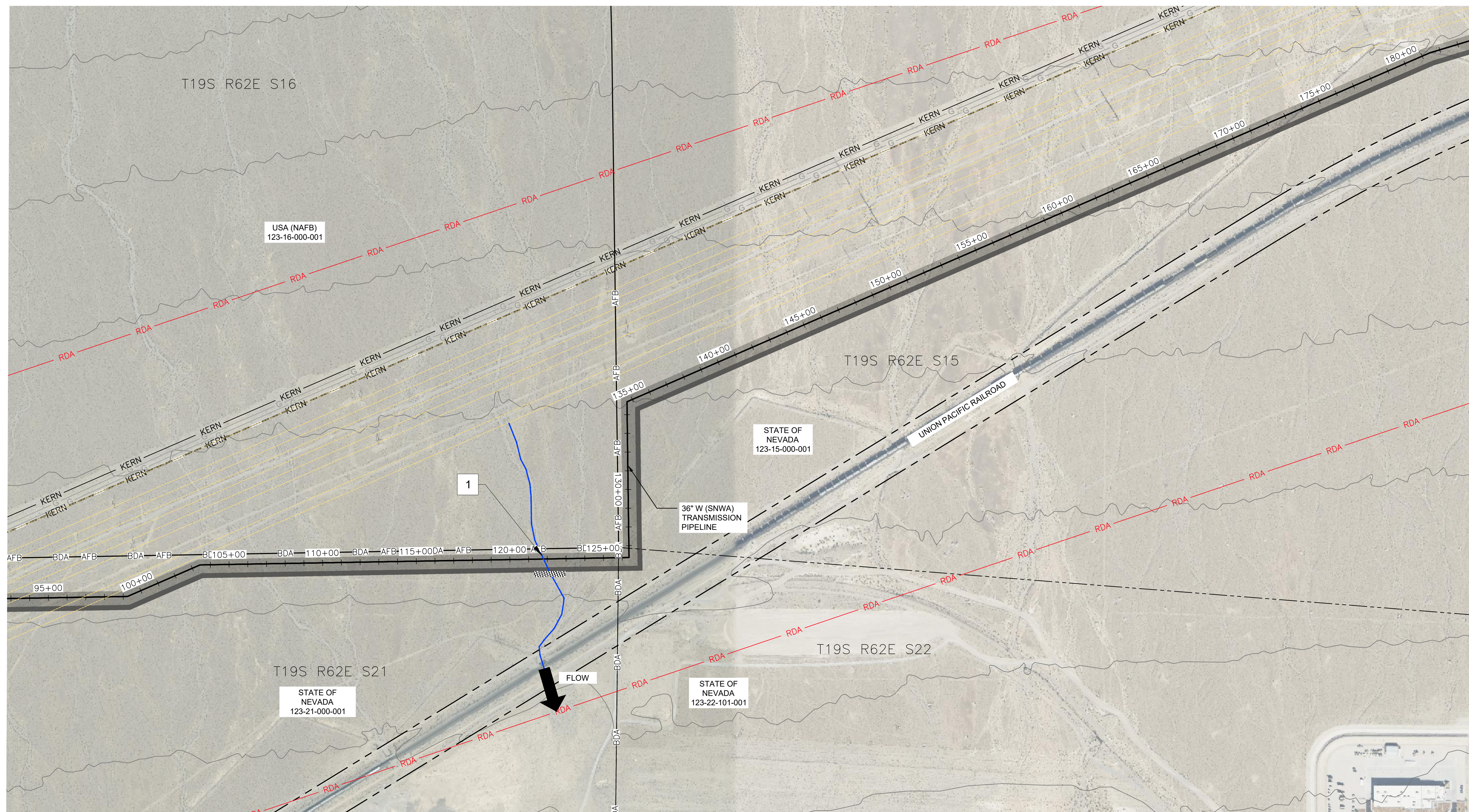
DRAFT: WORK IN PROGRESS 4/3/2024.
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LINETYPES

- SECTION LINE -----
- LOT LINE -----
- PROPOSED PERMANENT EASEMENT - - - - -
- PROPOSED TEMPORARY EASEMENT - - - - -
- EXISTING EASEMENT -----
- CONSTRUCTION AND O & M ACCESS (SHOWN IN POD) -----
- APEX ACTION AREA ----- AAA -----
- BLM ACEC ----- ACEC -----
- BLM DISPOSAL AREA ----- BDA -----
- BLM UTILITY CORRIDOR ----- BUC -----
- LLCRDA ----- RDA -----
- NELLIS AFB ----- AFB -----
- WEST WIDE ENERGY CORRIDOR* ----- WWE -----
- CITY OF NORTH LAS VEGAS ----- CNLV -----
- KERN RIVER PIPELINE EASEMENT ----- KERN -----
- HYDROLOGICAL FEATURE -----

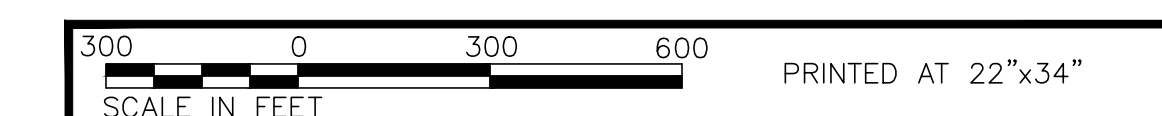
LEGEND

- PROPOSED PERM CONST EASEMENT [Grey Box]
- PROPOSED TEMP CONST EASEMENT [Dark Grey Box]
- STRAW WATTLE OR GRAVEL BAG BARRIER [Hatched Box]
- HYDROLOGICAL FEATURE CROSSING NO. [Box with 'X']



WATERWAY CROSSINGS

IDENTIFIER	CLASS DETERMINATION	HYDROLOGICAL FEATURE DESCRIPTION	IDENTIFICATION NUMBER*	LATITUDE	LONGITUDE	AREA (ACRES)	FLOW RATE (CFS)	DEPTH (FT)	VELOCITY (FPS)	CONSTRUCTION WORK DESCRIPTION
E1	EPHEMERAL STREAM (NON RELATIVELY PERMANENT)	NWI Intermittent Riverine	R4SBC - 1	36.291953°	-115.044312°	0.10	2.59	1.20	4.43	CUT/FILL, PIPE INSTALLATION, DUST CONTROL, STABILIZATION, TESTING
		NHD Ephemeral Stream	127163744							



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GARNET VALLEY WATER SYSTEM

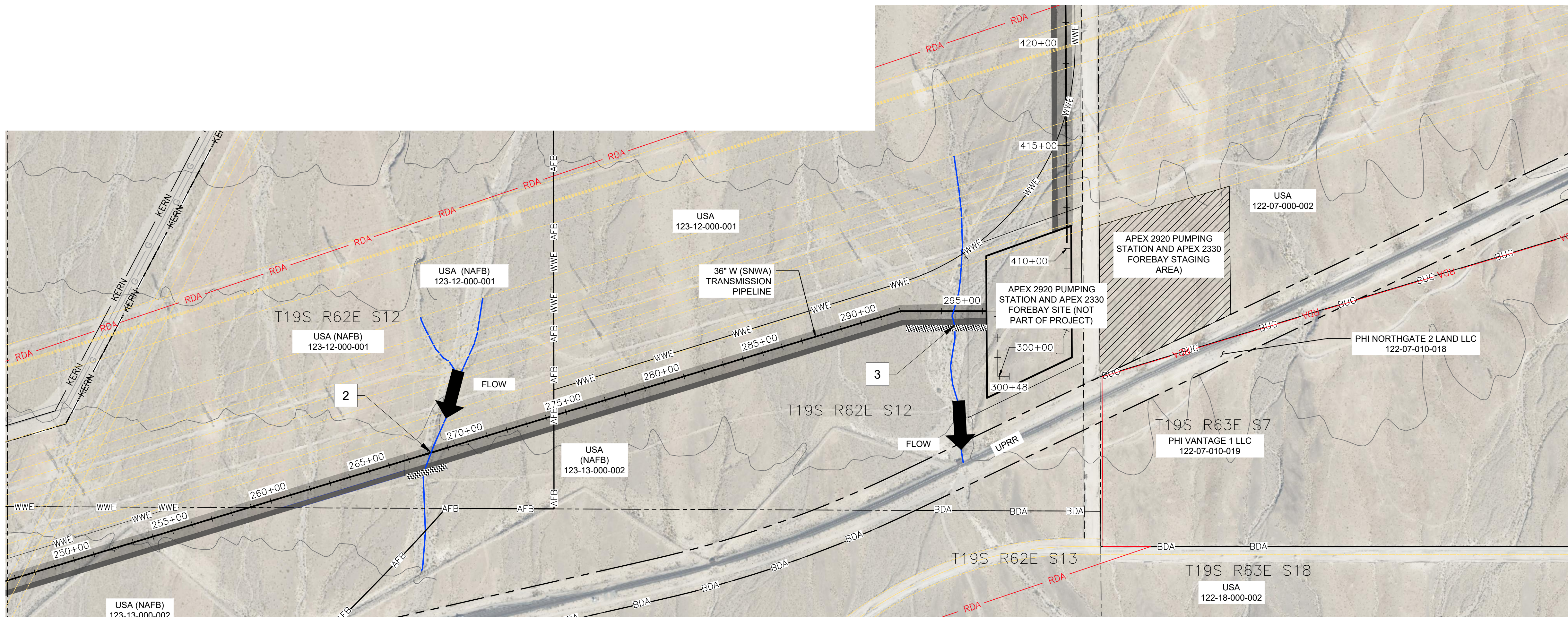
SITE AND TOPOGRAPHIC MAP
 TASK ORDER 1

PROJECT NO. 3257S
 DATE 4/3/2024
 EXHIBIT NO. 1

C:\Users\jacob\OneDrive\Documents\Garnet Valley Water System\GIS\Task Order 1\Task Order 1_Site and Topographic Map\Task Order 1_Site and Topographic Map.dwg 4/3/2024 9:19 AM



DRAFT: WORK IN PROGRESS 4/3/2024.
 THE INFORMATION PROVIDED IN THIS DOCUMENT IS CONFIDENTIAL, CONCEPTUAL, AND SUBJECT TO CHANGE. THIS DOCUMENT SHALL NOT BE SHARED OR DISPERSED WITHOUT THE EXPRESS WRITTEN CONSENT OF SNWA. SNWA MAKES NO GUARANTEE OF THE CONSTRUCTION OF ANY FACILITIES SHOWN HEREIN AND ANY USE OF THE INFORMATION CONTAINED OR DERIVED FROM THIS DOCUMENT WILL BE AT THE SOLE RISK OF THE RECEIVING PARTY.



LINETYPES

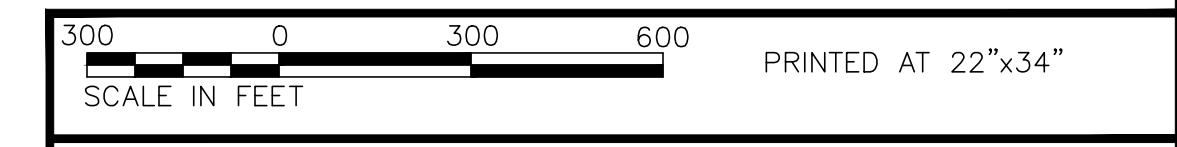
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- BLM DISPOSAL AREA _____ BDA
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- WEST WIDE ENERGY CORRIDOR* _____ WWE
- CITY OF NORTH LAS VEGAS _____ CNLV
- KERN RIVER PIPELINE EASEMENT _____ KERN
- HYDROLOGICAL FEATURE _____

LEGEND

- PROPOSED PERM CONST EASEMENT
- PROPOSED TEMP CONST EASEMENT
- STRAW WATTLE OR GRAVEL BAG BARRIER
- HYDROLOGICAL FEATURE CROSSING NO. X

WATERWAY CROSSINGS										
IDENTIFIER	CLASS DETERMINATION	HYDROLOGICAL FEATURE TYPE	IDENTIFICATION NUMBER*	LATITUDE	LONGITUDE	AREA (ACRES)	FLOW RATE (CFS)	DEPTH (FT)	VELOCITY (FPS)	CONSTRUCTION WORK DESCRIPTION
E2	EPHEMERAL STREAM (NON RELATIVELY PERMANENT)	NWI Intermittent Riverine	R4SBC - 9	36.306273°	-115.000171°	0.20	5.04	1.70	6.02	CUT/FILL, PIPE INSTALLATION, DUST CONTROL, STABILIZATION, TESTING
		NHD Ephemeral Stream	127164449							
E3	EPHEMERAL STREAM (NON RELATIVELY PERMANENT)	NWI Intermittent Riverine	R4SBC - 10	36.308174°	-114.991366°	0.40	13.43	1.90	8.40	CUT/FILL, PIPE INSTALLATION, DUST CONTROL, STABILIZATION, TESTING
		NHD Ephemeral Stream	127049487							

*Numbers after NWI Identification are for internal tracking only, and are not provided by the Agency



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GARNET VALLEY WATER SYSTEM

SITE AND TOPOGRAPHIC MAP TASK ORDER 1	PROJECT NO. 3257S DATE 4/3/2024 EXHIBIT NO. 2
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