

**Recorder's Office Cover Sheet**

**Recording Requested By:**

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**Department:** PUBLIC WORKS



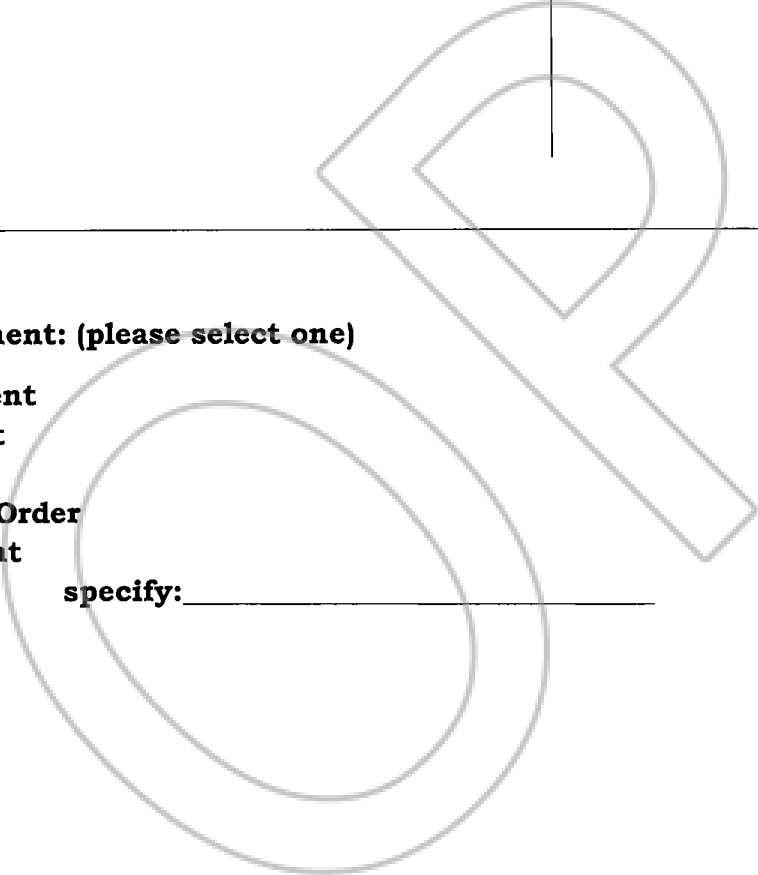
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KAREN ELLISON, RECORDER

**Type of Document: (please select one)**

- Agreement
- Contract
- Grant
- Change Order
- Easement
- Other

**specify:** \_\_\_\_\_



NO. 2021-019

02/09/21  
DATE

DOUGLAS COUNTY CLERK  
MINDEN, NV

BY [Signature] DEPUTY

# CONTRACT FOR SERVICES BY AN INDEPENDENT CONTRACTOR

A CONTRACT BETWEEN

**DOUGLAS COUNTY, NEVADA**

AND

***HDR ENGINEERING, INC.***

This Contract for Services by an Independent Contractor (the "Contract") is entered into by and between Douglas County, a political subdivision of the State of Nevada (the "County"), and HDR Engineering, Inc., a Foreign Corporation registered with the Nevada Secretary of State (NV20111062238) ("Contractor"). The County and Contractor are at times collectively referred to hereinafter as the "Parties" or individually as the "Party."

**WHEREAS**, Douglas County, a political subdivision of the State of Nevada, from time to time requires the services of independent contractors; and

**WHEREAS**, it is deemed that the services of Contractor herein specified are both necessary and desirable and in the best interests of Douglas County; and

**WHEREAS**, Contractor represents that Contractor is duly qualified, equipped, staffed, ready, willing and able to perform and render the services hereinafter described.

**NOW, THEREFORE**, in consideration of the mutual promises and covenants herein made, the County and Contractor mutually agree as follows:

**1. TERM AND EFFECTIVE DATE OF CONTRACT.** The Contract will become effective on the date it is approved and signed by representatives of both Parties ("Effective Date"). Time is of the essence in this Contract. *All work required in Paragraph 4 of this Contract shall be finally completed by no later than December 31, 2021.*

**2. INDEPENDENT CONTRACTOR STATUS.** The Parties agree Contractor will have the status of an independent contractor and that the Contract, by explicit agreement of the Parties, incorporates and applies the provisions of NRS 333.700, as necessarily adapted to the Parties, including the express understanding that Contractor is not an employee of the County and that:

There shall be no:

- (1) Withholding of income taxes by the County;
- (2) Industrial insurance coverage provided by the County;
- (3) Participation in group insurance plans which may be available to employees of the County;

- (4) Participation or contributions by either the Contractor or the County to the public employee's retirement system;
- (5) Accumulation of vacation leave or sick leave;
- (6) Unemployment compensation coverage provided by the County if the requirements of NRS 612.085 for independent contractors are met.

Additionally, the Contractor is not in the classified or unclassified service of the County and has none of the rights or privileges available to officers, employees or other appointees of the County.

**3. INDUSTRIAL INSURANCE.** Contractor further agrees that, prior to the commencement of any work and as a precondition to any obligation of the County to make any payment under the Contract, Contractor will provide the County with a work certificate and/or a certificate issued by a qualified insurer in accordance with NRS 616B.627. Contractor also agrees that, prior to commencing any work under the Contract, Contractor will complete and provide evidence to the County that Contractor has made the following written request to Contractor's insurer:

*HDR Engineering, Inc. has entered into a contract with Douglas County to perform services related to the North Valley Wastewater Treatment Plant Effluent Storage Pond Emergency Action Plan Update through December 31, 2021, and requests that an authorized insurer provide to Douglas County: (1) A certificate of coverage issued pursuant to NRS 616B.627 and (2) Notice of any lapse in coverage or nonpayment of coverage that the Contractor is required to maintain.*

*The certificate and notice should be mailed to:*

*Douglas County  
Public Works Department  
Post Office Box 218  
Minden, Nevada 89423*

Contractor agrees to maintain all required workers' compensation coverage throughout the entire term of the Contract. If Contractor does not maintain the required coverage throughout the entire term of the Contract, Contractor agrees that the County may, at any time the coverage is not maintained by Contractor, order the Contractor to stop work, suspend the Contract, or terminate the Contract at the sole discretion of the County.

**4. SERVICES TO BE PERFORMED.** The Parties agree that the Contractor will perform services related to the update to the North Valley Wastewater Treatment Plant Effluent Storage Pond Emergency Action Plan Update. The Services are more particularly described and shall be completed in accordance with the requirements set forth in Exhibit A hereto. Any additional work incorporated by change order will be charged and billed at the rates set forth in Exhibit B.

**5. PAYMENT FOR SERVICES.** Contractor agrees to provide the services set forth in Paragraph 4 for a total cost not to exceed Twenty Five Thousand Two Hundred Sixty Five Dollars (\$25,265) (the "Contract Price"). The Services to Be Performed are divided into Tasks, each of which will be billed at a cost not to exceed the price set forth for that task in Exhibit A. Unless

Contractor has received a written exemption from the County, Contractor shall submit monthly requests for payment for services performed under this Contract. Requests for payment shall be submitted no later than fifteen (15) days after the end of a month and must include a detailed summary of the expenditures reported in a form that supports the approved budget. Specifically, Contractor agrees to provide with each request for payment a schedule of actual expenditures for the period, cumulative total expenditures for the entire contract, and a comparison of cumulative total expenditures to the maximum expected fee for the services and tasks set forth in Paragraph 4. County shall pay Contractor all undisputed amounts within thirty (30) days of Contractor's invoice.

**6. TERMINATION OF CONTRACT.** Either Party may terminate the Contract if the other Party fails to correct any breach of the terms of the Contract within 30 days after receiving notice of such breach and having been given a reasonable opportunity to cure the breach. Provided, however, that except as otherwise set forth in this Contract, early termination will not relieve a Party of any obligation that became due prior to the date of termination.

**7. NONAPPROPRIATION.** All payments required pursuant to the Contract are contingent upon the availability of County funds. In accordance with NRS 354.626 and any other applicable provision of law, the financial obligations between the Parties will not exceed those monies appropriated and approved by the County for the Contract for the then current fiscal year under the Local Government Budget Act. The Contract will terminate and the County's obligations will be extinguished if the County fails to appropriate the necessary funding.

Nothing in the Contract will be construed to provide Contractor with a right of payment from any entity other than the County. Any funds budgeted by the County pursuant to the terms of the Contract that are not paid to Contractor will automatically revert to the County's discretionary control upon the completion, termination, or cancellation of the Contract. The County will not have any obligation to re-award or to provide, in any manner, the unexpended funds to Contractor. Contractor will have no claim of any sort to the unexpended funds.

**8. CONSTRUCTION OF CONTRACT.** The Contract will be construed and interpreted according to the laws of the State of Nevada. There will be no presumption for or against the drafter in interpreting or enforcing the Contract. The Contract Documents consist of this document, and Exhibits A and B. The Parties agree to be bound by the terms, conditions and specifications set forth in all Contract Documents, except as specifically modified or amended. The terms of the Contract Documents shall, to the extent reasonably practical, be read as complimentary to one another. In the event of an irreconcilable conflict between the terms of the Contract Documents, the terms of this document shall prevail, thereafter the terms of Exhibit A, and finally Exhibit B.

**9. DISPUTE RESOLUTION.** In the event a dispute arises between the Parties, the Parties promise and agree to first meet and confer to resolve any dispute. If such meeting does not resolve the dispute, then the Parties agree to mediate any dispute arising from or relating to the Contract before an independent mediator mutually agreed to by the parties. The fee, rate or charge of the mediator will be shared equally by the Parties, who will otherwise be responsible for their own attorney's fees and costs. If mediation is unsuccessful, litigation may only proceed

before a department of the Ninth Judicial Court of the State of Nevada in and for the County of Douglas that was not involved in the mediation process and attorney's fees and costs will be awarded to the prevailing party at the discretion of the court.

**10. COMPLIANCE WITH APPLICABLE LAWS.** Contractor promises and agrees to fully and completely comply with all applicable local, state and federal laws, regulations, orders, or requirements of any sort in carrying out the obligations of the Contract, including, but not limited to, all federal, state, and local accounting procedures and requirements, all hazardous materials regulations, and all immigration and naturalization laws.

**11. ASSIGNMENT.** Contractor will neither assign, transfer nor delegate any rights, obligations or duties under the Contract without the prior written consent of the County.

**12. COUNTY INSPECTION.** The books, records, documents and accounting procedures and practices of Contractor related to the Contract will be subject to inspection, examination and audit by the County, including, but not limited to, the contracting agency, the County Manager, the District Attorney, and, if applicable, the Comptroller General of the United States, or any authorized representative of those entities.

**13. DISPOSITION OF CONTRACT MATERIALS.** Any books, reports, studies, photographs, negatives or other documents, data, drawings or other materials prepared by or supplied to Contractor in the performance of its obligations under the Contract (the "Materials") will be the exclusive property of the County and all such materials will be remitted and delivered, at Contractor's expense, to the County by Contractor upon the completion, termination or cancellation of the contract. Alternatively, if the County provides its written approval to Contractor, the Materials must be retained by Contractor for a minimum of six years after Contractor's receipt of the final payment from County and all other pending matters are closed. If, at any time during the retention period, the County, in writing, requests any or all of the Materials, then Contractor will promptly remit and deliver the materials, at Contractor's expense, to the County. Unless the County has requested the remittance and delivery by Contractor of the Materials, Contractor will not use, willingly allow or cause to have such Materials used for any purpose other than the performance of Contractor's obligations under the terms of the Contract without the prior written consent of the County. Re-use of such Materials for purposes not contemplated in this Agreement shall be at the re-user's sole risk and without liability to Contractor.

**14. PUBLIC RECORDS LAW.** Contractor expressly understands and agrees that all documents submitted, filed, or deposited with the County by Contractor, unless designated as confidential or exempt from public disclosure by a specific statute of the State of Nevada, will be treated as public records pursuant to NRS chapter 239 and shall be available for inspection and copying by any person, as defined in NRS 0.039, or any governmental entity. Contractor expressly and indefinitely waives all of its rights to bring, including but not limited to, by way complaint, interpleader, intervention, or any third party practice, any claims, demands, suits, actions, judgments, or executions, for damages or any other relief, in any administrative or judicial forum, against the County or any of its officers or employees, in either their official or

individual capacity, for violations of or infringement of the copyright laws of the United States or of any other nation.

**15. INDEMNIFICATION.** Contractor agrees to indemnify, defend, and save and hold the County, its agents and employees harmless from any and all claims, causes of action or liability to the extent arising from or related to Contractor's negligent performance pursuant to the terms of the Contract by Contractor or Contractor's agents or employees.

**16. MODIFICATION OF CONTRACT.** The Contract and the attached exhibits constitute the entire agreement and understanding between the Parties and may only be modified by a written amendment signed by both of the Parties.

**17. AUTHORITY.** The Parties represent and warrant that they have the authority to enter into this agreement. Each signatory individually warrants that he or she is authorized to sign on behalf of the party for whom he or she is signing.

**18. STANDARD OF CARE.** Contractor will perform all services in a manner consistent with that level of care and skill ordinarily exercised by other members of Contractor's profession currently practicing in the same locality under similar conditions.

**19. WAIVER OF LIEN.** Contractor understands and agrees that the services it will render to the County are not intended for the improvement of real property or to otherwise grant any rights to Contractor pursuant to NRS chapter 108.

**20. THIRD PARTY BENEFICIARY.** Nothing contained in this Agreement is intended to convey any rights or to create a contractual relationship with any third party or to otherwise allow a third party to assert a cause of action against either Contractor or County.

**21. FORCE MAJEURE.** Neither Party shall be deemed to be in violation of this Agreement if it is prevented from performing any of its obligations hereunder due to protests, strikes, legal impossibility, failure of public transportation, civil or military authority, act of public enemy, accidents, fires, explosions, emergencies or acts of God, including, without limitation, earthquakes, floods, winds, or storms. In such an event, the intervening cause must not be through the fault of the Party asserting such an excuse, and the excused Party is obligated to promptly perform in accordance with the terms of this Agreement after the intervening cause ceases.

**22. WAIVER.** The County's failure to insist upon Contractor's performance of any obligation hereunder shall not constitute a waiver of the County's right to enforce that obligation and the County may require compliance with that obligation or any other obligation at any time.

**23. NOTICES.** All notices, requests, demands and other communications hereunder must be in writing and will be deemed delivered when sent via certified mail, return receipt requested or by commercial courier, provided the courier's regular business is delivery service and provided further that it guarantees delivery to the addressee by the end of the next business

day following the courier's receipt from the sender, addressed as follows (or any other address that the Party to be notified may have designated to the sender by like notice):

**To County:** Douglas County  
Attn: Public Works Director  
1120 Airport Road, F2  
Post Office Box 218  
Minden, Nevada 89423

**To Contractor:** HDR Engineering, Inc  
9805 Double R Boulevard, Suite 101  
Reno, NV 89521

**24. CONFLICT OF INTEREST.** By signing the Contract, Contractor agrees that any information obtained from Douglas County, in whatever form, will not be divulged to other competing interests without the permission of the County Manager. In the event of a breach of this provision, Douglas County may immediately withdraw, without penalty or any payment, from the Contract. Contractor must notify Douglas County of any other contracts or projects Contractor is working on that may impact Douglas County.

**25. ALLOCATION OF RISK.** County and Contractor have evaluated the risks and rewards associated with this project, including Contractor's fee relative to the risks assumed, and agree : (1) that neither party shall be liable for consequential, indirect, special, exemplary or punitive damages of any kind or nature in connection with the work, whether based on any claim or theory of liability, including, without limitatoin, tort (including negligence), breach of contract or warranty or strict liability, and (2) to allocate certain of the risks, so, to the fullest extent permitted by law, the total aggregate liability of Contractor (and its related corporations, subconsultants and employees) to County and third parties granted reliance is limited to the lesser of \$250,000 or its fee, for any and all injuries, damages, claims, losses, or expenses (including attorney and expert fees) arising out of Contractor's services or this agreement regardless of cause(s) or the theory of liability, including negligence, indemnity, or other recovery.

IN WITNESS WHEREOF, the Parties hereto have caused the Contract to be signed and intend to be legally bound thereby.

**HDR Engineering, Inc.**

By: *Craig W. Smart* 01/27/21  
Name: Craig W. Smart  
Title: Associate Vice President (Date)

**Douglas County**

By: *[Signature]* 2/5/21  
Name: Patrick Cates (Date)  
Title: Douglas County – County Manager





## EXHIBIT A

### Scope of Services

This scope of services is intended to provide a description of the tasks anticipated with preparing an update to the Emergency Action Plan (EAP) for the North Valley Waste Water Treatment Plant (NVWWTP) Effluent Storage Pond (pond) breach or overtopping failure of both dams. EAPs are needed to provide early warning and notification of an embankment breach in order to reduce loss of life and property damage downstream of a pond. Included in an EAP are evacuation and inundation maps, and contact information for local emergency managers. Based on discussion with Douglas County staff, these updates will include an update of the notification flow chart using a contemporary template compatible with Word; an update of the terrain surface to include recently completed improvements at the treatment plant that may be impacted by a potential embankment breach; an update of the breach modeling using the 2D modeling capabilities of the latest version of the US Army Corps of Engineers HEC-RAS hydraulic model; and updates of the inundation mapping based on the HEC-RAS modeling results.

The North Valley Waste Water Treatment Plant is located east of Heybourne Road, approximately 1-mile north of Stephanie Way in Douglas County, NV. Please see Figure 1 for the location of the pond.

The pond is considered to be "high hazard" by the State of Nevada Division of Water Resources (DWR), and therefore EAPs are required. The EAP update will be prepared using guidance from *FEMA Federal Guidelines for Dam Safety, Emergency Action Planning for Dams (FEMA 64)*, dated July 2013, as well as input from the DWR.

The following tasks are anticipated for the preparation of an EAP for the NVWWTP pond:

**1. Project Management, Coordination, Meetings**

This task includes administrative and project management tasks, invoicing, monthly coordination meetings. Any proposed changes in or departures from this scope proposed by the County or initiated by HDR will be provided to the County in writing.

**2. Data Collection and Field Review**

HDR personnel will collect digital and paper data relevant to hydraulic analyses for the pond and surrounding areas, hazard mapping for the project area, inspection reports, design drawings, as-built drawings, available topographic and survey data, and etc. The data collected will be used for the analysis, model construction, and GIS mapping.

The Consultant shall be entitled to reasonably rely upon the information and data provided by the County or obtained from generally accepted sources within the industry without independent verification except to the extent such verification is expressly included in the Scope of Services.

Terrain Data: The County will provide HDR with the most current LiDAR and rectified ortho aerial photo mapping for the project area and water course at no cost to HDR. HDR will provide the County with the LiDAR tiles needed. The LiDAR data will be used to create a terrain that will be the basis for the hydraulic models. Design drawings for new facilities at the WWTP will be used to create terrain patches that will be inserted into the LiDAR terrain model.

Supplemental survey data may be required so that key features of the dam are coded into the hydraulic model correctly (i.e. top of embankment elevations, spillway elevations, low-level outlet

configuration, downstream bridges/culverts, etc.). Any supplemental survey requirements identified by HDR will be provided by the County at no cost to HDR.

Land Use: The County will provide HDR with the most current land use planning data for the project watershed in GIS format.

As-Built Information: HDR will collect as-built/design information for the pond and downstream roadway, and adjacent residential developments from the County, as necessary.

### **3. Identify Trigger Events**

HDR will review dam as-builts if available, geotechnical reports, hydrological and hydraulic/drainage reports, permits, dam inspection reports and other pertinent material available, to be provided by Douglas County. The previous analyses for the current EAP used a breach of the north and south embankments of the pond for the inundation modeling and mapping. HDR will verify that the location of the piping breaches that would result in the most critical downstream inundation.

### **4. Identification of Jurisdictions, Agencies, and Individuals Requiring Notification**

HDR will work with staff from Douglas County to identify all jurisdictions, agencies and individuals requiring notification in the event of occurrence of a rupture of the dam referenced in this Scope of Work. This task will be incomplete with respect to individuals or residents of properties downstream of and in the pathway of a potential flood resulting from the rupture of the referenced dam. These properties will be identified upon completion of the inundation mapping.

### **5. Review Standard Inspection Procedures to be Used Prior to an Emergency**

HDR will work with Douglas County personnel to update appropriate inspection and surveillance procedures to be followed prior to an emergency. HDR will work with and recommend any alterations to current schedule for site inspections to the reservoir. HDR will document existing operation and maintenance procedures and recommend any necessary alterations.

### **6. Determine the Appropriate Procedures to be Used During an Emergency**

HDR will work with Douglas County personnel to document appropriate communications and procedures to be followed during an emergency with respect to rupture of the referenced dam structure. This includes evacuation and recovery procedures.

### **7. Terrain Development**

It is anticipated that the US Army Corps of Engineers' HEC-RAS V6.0 (Beta) hydraulic model will be used to develop breach hydrographs and for hydraulic routing of those flows. It will therefore

be necessary to develop a digital terrain model as the geometric foundation for the hydraulic model.

Digital Terrain development will be conducted using ESRI's ArcMap capabilities using the latest Douglas County LiDAR data. It is assumed that Douglas County will provide the latest LiDAR data for the study area. These data are assumed to be in NAD83 State Plane Feet projection with a vertical datum of NAVD88. HDR staff will use the ground classified LiDAR points to create a Triangular Irregular Network (TIN) which will then be converted to a raster dataset at a 1-2 foot resolution for ingestion into the HEC-RAS model. It is assumed that channel bathymetry of the Carson River and any supplemental topographic data is not required for the level of detail required by the EAP. Terrain corrections or processing will be conducted to reflect recent construction at the NVWWTP.

If data is readily available, building footprints will be added to the terrain as elevated features to simulate the behavior of the blocked obstructions in the model.

## **8. Hydraulic Model Development**

Given the flat nature of the terrain in the consequence area for the NVWWTP pond area, an unsteady-state two dimensional (2D) model has been chosen for analysis. The US Army Corps of Engineers' HEC-RAS V6.0 hydraulic model has the capability to model 2D flow in a structured/unstructured mesh and provide detailed mapping and hydraulic output information. This version of HEC-RAS also has the capability to simulate dam breach progressions and route the resulting breach hydrograph through the model domain, allowing better characterization of unpredictable divided flow.

### **a. Model Development**

The modeling domain for both the pond and consequence area will begin at the upstream extent of the respective reservoir and terminate at the Carson River or at a logical downstream limit agreed upon with the County. The reservoir volume will be captured by the 2D modeling domain or a storage area developed with the rating curve provided in the record drawings for the pond.

It is anticipated that the Breach Models will be full 2D models for ease of run, stability, and accuracy of the inundation mapping. The model domain will be developed in GIS as a polygon layer capturing the largest potential consequence area. The model domain will incorporate breakline data as appropriate to capture hydraulically relevant high points in the terrain such as roadway crowns or structure overtopping sections.

Manning's n values will be developed for the modeling area using aerial photos, field photos and GIS capabilities. Areas of homogeneous land use will be digitized as a land use layer for inclusion into the 2D modeling area. Once land use zones have been digitized, the methods described in USGS Water-Supply Paper 2933, HDR developed Manning's roughness ("n")

values for the channel and overbank regions (Arcement & Schneider, 1989) will be used to estimate roughness values.

It is anticipated that the model will be run in Full Momentum computation mode with default options and tolerances. The model will be run for the “Sunny Day” events for breaches of the north embankment and south embankment, as done for the prior EAP prepared by HDR in 2007. It is anticipated that the Sunny Day events will be run with a piping breach scenario only, since the pond is a pumped storage facility and has no direct tributary stormwater drainage area.

#### **b. Dam Breach Parameterization**

One of the most crucial elements of Dam Breach modeling and hazard identification is the selection of dam breach parameters. There are several different failure models and many different methodologies for estimating physical breach characteristics and breach progression timing. The embankment material, failure location and failure mode all play crucial roles in determining the ultimate breach and resulting hydrograph impacting the consequence area.

The two main failure modes for breach analyses are overtopping and piping failure. Only the piping failure will be investigated for this study. Empirical relationships have been developed for a variety of dam types relating dam breach parameters, including timing, with physical characteristics of the embankment and relative water levels. These methods are all described in the US Army Corps of Engineers’ guidance document *Using HEC-RAS for Dam Break Studies* (2014). This document will be used for general guidance along with other appropriate dam breach publications from sources like the US Bureau of Reclamation (US BoR), USDA Natural Resource Conservation Service (NRCS), and the Federal Emergency Management Agency (FEMA).

It is anticipated that the primary regulatory guidance will be FEMA 64 (July 2013) Federal guidelines for Dam Safety. Breach modeling will also be subject to State of Nevada Divisions of Water Resources guidelines and dam safety regulations outlined in Nevada Revised Statute (NRS) 535.

### **9. Inundation Mapping**

Following breach hydrograph development and associated flood routing, the results of the hydraulic modeling will be processed in HEC-RAS Mapper for incorporation into hazard maps. Inundation mapping shall include the following elements:

- North arrow and bar scale
- Clearly labeled inundation areas
- Qualification stating that the hazard areas may differ during an actual dam failure event
- Roads, drainages, and other landmarks are clearly displayed
- Critical facilities identified

- Logical downstream limits (assumed to be the Carson River)
- “Cross sections” taken at critical locations (for 2D modeling the use of a flux line will replace traditional cross sections).
- Flood inundation information includes; peak flood stage, flood wave arrival time, maximum water surface elevation, peak discharge, and depth times velocity.

## 10. EAP Update

The effective EAP, dated 2007, will be updated with a current notification flow chart, and new breach inundation mapping as described above. Other sections of the EAP will be reviewed for accuracy and will be updated with input by the County as required. This scope assumes that Douglas County will provide any updates to any other sections of the EAP not related to the notification flow charts for yellow and red alert conditions in Section 4 of the EAP, the inundation mapping discussion in Section 8 of the EAP, and associated figures.

## 11. Schedule

HDR anticipates completing the work described herein within thirty (30) calendar day from receipt of a fully executed agreement and notice-to-proceed from Douglas County. This completion schedule is dependent on receipt of the data listed in Section 2. Data Collection in a timely fashion, and appropriate Douglas County staff being available to coordinate with HDR on the work described in Sections 4, 5, 6, and 10, above. Delays in the receipt of data needed for the development of the hydraulic model or update of the EAP may necessitate an adjustment of this schedule.

## 12. Fee Estimate

Anticipated major budget items are summarized below. The subtotals below are for budgeting purposes only and task budgets may be reallocated to other tasks provided the total fee is not exceeded. Additional work not anticipated in this scope of services may require additional fee. HDR will notify Douglas County in the case of unforeseen tasks or additional effort that may come about during the course of this effort. HDR will not perform additional services outside the scope of this agreement or in excess of the total amount below without proper written authorization from Douglas County.

**FEE ESTIMATE**

**Douglas County: North Valley WWTP Effluent Pond EAP Update**

Task #	Task Description	Total For Proposal
1	Project Management & Coordination Meetings	\$7,930
2	Data Collection	\$395
3	Verify Trigger Events	\$350
4	Verification of Jurisdictions Requiring Notification	\$350
5	Verification of Procedures to be Used Prior to Emergency	\$995
6	Verification of Procedures to be Used During an Emergency	\$995
7	Terrain Development	\$3,220
8	Hydraulic Model Development	\$4,135
9	Inundation Mapping	\$4,910
10	EAP Update	\$1,985
	Total	\$25,265



**DOUGLAS COUNTY**  
**North Valley WWTP Effluent Pond EAP Update**  
 January 1, 2021 – December 31, 2021

<u>Classification</u>	<u>Rate</u>
Project Principal	\$315-\$330
Project Manager	\$275-\$300
Quality Control Reviewer	\$310-\$325
Technical Advisor Sr.	\$235-\$260
Discipline Lead	\$220-\$245
Engineer Sr.	\$195-\$215
Engineer	\$165-\$190
Engineer Jr.	\$140-\$160
EIT/Designer	\$95-\$135
CADD Technician Sr.	\$152-\$172
CADD Technician Jr.	\$135-\$155
Project Controller	\$165-\$175
Project Coordinator	\$85-\$100

**EXPENSES:**

Vehicle Mileage (Per Mile) FTR Federal  
 Reproduction, Shipping, and other ODC's at cost  
 Subconsultants Markup 5%  
*rates subject to 3% annual escalation*

Douglas County State of Nevada

**CERTIFIED COPY**

I certify that the document to which this certificate is attached is a full and correct copy of the original record on file in the Clerk-Treasurer's Office on this

9th day of February, 2021

By *Ralph Wallace* Deputy