

Eschberger - DNR, Amy <amy.eschberger@state.co.us>

M1985-184 - Bivens Pit- TR-2: 2nd Submission and Comments to Adequacy Review

Tim Gerken <tgerken@telesto-inc.com> To: "amy.eschberger@state.co.us" <amy.eschberger@state.co.us> Cc: A B <bivensrecycling@yahoo.com> Wed, Feb 24, 2021 at 11:05 AM

Amy Eschberger,

Attached is the updated Technical Revision No. 2 (TR-2) and the comments to your adequacy review for Bivens Pit, Permit No. M-1985-184.

Also attached is the Gravel Well Permit Application (Application Receipt: 10009775) sent to the DWR on February 22, 2021.

Please contact us with any questions regarding this submission.

Thank you for your time and review of this revision.

-Tim Gerken

Tim J. Gerken

Geologist Telesto Solutions, Inc.

<u>750 14th St. SW</u>

Loveland, CO 80537

(970)-484-7704 - Office

(720)-438-5513 -- Cell



M-1985-184_BivensPit_TR-2_2ndSubmission.zip 20295K



February 16, 2021

<u>Via Electronic Mail</u>

Amy Eschberger Colorado Division of Reclamation, Mining and Safety 1313 Sherman Street, Room 215 Denver, Colorado 80203 amy.eschberger@state.co.us

Subject: Bivens Trucking and Excavating, Inc – Bivens Pit, Permit No. M-1985184 Response to Adequacy Review on Technical Revision 2

Dear Ms. Eschberger:

Telesto Solutions, Inc. (Telesto) submits this letter on behalf of Bivens Trucking and Excavating, Inc. (Bivens) to address comments and questions in Adequacy Review No. 1 (AR-01) dated January 8, 2021. We appreciate your time in this matter. This letter repeats the comment/question from the adequacy review in *italics* with a response immediately following. Responses and questions that led to a change in Technical Revision 2 (TR-02).

Item 1

The updated mining plan states the operator plans to continue mining the pit from Phase 1 (i.e., the existing pond) to the south and expanding the pond to its original mine plan surface area of 6.5 acres, described as the Final Phase. However, on the updated mining plan map presented on Figure 3, the operator proposes expanding the existing pond by 1.1 acres in the Final Phase, which would give a total final pond surface of 4.6 acres (3.5 acres existing + 1.1 acre expansion). Additionally, on the updated reclamation plan map presented on Figure 4, the legend indicates the final reclaimed water body will be 4.9 acres in size. <u>Please explain and/or correct this discrepancy in the proposed final pond size.</u> <u>Does the operator propose a maximum final pond size of 6.5 acres, 4.9 acres, or 4.6 acres?</u> <u>Please make any necessary corrections to the appropriate text and/or figures.</u>

Response 1

Currently, the existing total reclaimed pond is 3.6 acres and additional 0.3 acres recreational beach area. Bivens plans on continuing mining and expanding the pit to the south, described as the final phase. The final phase includes expanding the pit by 1.3 acres to the south as was the original mining plan submitted in the 1980s. At the end of mining, Bivens's plans on leaving a final pond water surface area of 4.8 acres as described in the

Colorado Office (Corporate) 750 14th Street SW Loveland, Colorado 80537 970-484-7704 / 970-484-7789 (FAX) Grand Junction 751 Horizon Court, Suite 109 Grand Junction, Colorado 81506 970-697-1550 New Mexico Office 1303 Pope Street Silver City, New Mexico 88061 575-538-5620 / 575-538-5625 (FAX)

two alternative reclamation plans. Plan 1 includes 4.8 acres exposed water surface area with an island. Plan 2 includes an exposed water surface area of 4.8 acres with no island. Regardless of which reclamation plan is chosen, the total final pond surface is 4.8 acres.

Item 2

Page 3 of the water court approved augmentation plan provided in Attachment 3 for Case No: 90-CW-129 (W-7813-74) states the plan was approved for a 6.05 acre "area of water surface left by mining." This indicates the augmentation plan would not cover a proposed final pond size of 6.5 acres. <u>Therefore, please make any necessary corrections to the appropriate text and/or figures to ensure the proposed final surface area of exposed groundwater does not exceed the 6.05 acres approved by the augmentation plan</u>

Response 2

The final phase pond size of 6.5 acres was an error. The reported final phase pond size is updated to the correct the size of 4.8 acres. Bivens will not exceed the approved augmentation plan for 6.05 acres area of surface water left by mining.

Item 3

Page 5 of the water court approved augmentation plan provided in Attachment 3 for Case No: 90-CW-129 (W-7813-74) states the applicant had applied for a well permit for the site which was pending with the Office of the State Engineer (at the time of augmentation approval). <u>Please confirm that a well permit is in place with the Division of Water Resources for the existing amount of exposed groundwater at the site, and that the well permit will be amended, if required, to cover the proposed pond expansion.</u>

Response 3

A previous owner of the property, Charles R. Nauta, applied for a well permit in 1990 (Attachment 4). The well permit application was filed with the DWR, but no well permit was ever finalized. Bivens is currently working with the DWR to obtain the appropriate gravel well permit.

Item 4

In expanding the pond to the south as proposed, would the operator first need to dewater the area? If so, where does the operator intend to discharge this water? If dewatering activities are proposed, please commit to obtaining the necessary discharge permit from the Colorado Department of Public Health and Environment, Water Quality Control Division prior to initiating these activities.

Response 4

The operator may choose to mine the final phase "wet." If the operator chooses to dewater the pit, then the operator would likely discharge the water into the existing pond (berm in between and then mine out berm at last). Regardless, operator commits to obtaining all required water quality permits prior to the start of mining.

Item 5

The updated reclamation plan proposes two separate scenarios for final reclamation. One plan includes leaving a 4.6 acre pond (per the text; 4.9 acre pond per Figure 4) with a 0.4 acre recreational area, a 1.3 acre parking area (to receive 6 inches of road base), 1.3 acres of roads (to receive 6 inches of road base), and an area of 2.7 acres to be retopsoiled at 12 inches depth and revegetated. The other plan includes all the same features except that a water feature of unspecified size may be excavated between the recreational area and the proposed parking area and this material will be used to backfill an unspecified portion of the expanded pond.

The operator is allowed to propose more than one potential reclamation plan for the site. However, the Division must calculate the required financial warranty for the most costly plan proposed in the event the permit was revoked and the State had to complete reclamation of the site. In this case, as long as the proposed final pond size does not exceed what is approved in the augmentation plan, the plan to excavate a water feature and backfill a portion of the pond would be the most costly plan of the two proposed. Therefore, unless the operator chooses instead to commit to the first reclamation plan without the water feature, the Division requires the following details in order to calculate the required financial warranty:

a) Please provide the anticipated size (in acres) and depth of the proposed water feature.

b) Please provide the approximate volume of material expected to be excavated from the water feature area.

c) Will construction of the water feature and/or backfilling the southern portion of the pond require dewatering? If so, please provide additional details on this activity, including the estimated total costs

d) Please specify the anticipated equipment to be used to excavate the water feature and to haul the material to the southern end of the pond for backfill.

e) Please provide an approximate length of slope (in feet) around the edge of the water feature which will require grading. Will these slopes be graded to 3H:1V or flatter?

f) Please provide an approximate area around the water feature including its slopes, which will require retopsoiling and revegetation (if this area exceeds the proposed 2.7 acres to retopsoil and revegetate).

g) Please specify the anticipated equipment to be used to backfill the southern

h) Please provide the anticipated size (in acres) of the southern portion of the pond to be backfilled. Will this area be retopsoiled and revegetated for reclamation?

i) Please clarify whether the proposed 2.7 acres requiring retopsoiling and revegetation for reclamation includes the proposed water feature area and the proposed backfilled portion of the pond. Will construction of the water feature reduce the proposed 1.3 acre parking area? If so, please specify the anticipated size of the parking area if the water feature is constructed.

Response 5

We have clarified that the "water feature" is not part of reclamation, but rather there are two options to end mining (one with an island and one without). We have provided the data requested to calculate the bond under both closure scenarios in the updated technical revision. Based on the amount of reclamation completed to date, we believe the existing bond should cover either scenario. We have not calculated the required bond as the Division typically does this internally, but we can if so requested.

Item 6

The updated reclamation plan states that areas to be revegetated will be seeded with the approved reclamation grass seed mix (switchgrass, slender wheatgrass, tall wheatgrass, alkali sacaton, and yellow sweet clover). <u>Please be advised, yellow sweet clover is now considered to be an invasive species as it readily invades open areas and may compete for resources with native species. Please remove yellow sweet clover from the proposed seed mixture, or replace it with a species that is more compatible with native species. The approved seed mixture is enclosed for reference.</u>

Response 6

Yellow sweet clover has been removed from proposed seed mixture used for reclamation and the technical revision updated accordingly.

Item 7

The updated reclamation plan states the truck scale and scale house will be removed at the end of operations. <u>Please provide the approximate dimensions of the permanent features</u> requiring demolition for removal (e.g., concrete pads). Additionally, please specify the estimated costs for demolishing and removing any permanent features, including costs for disposal. Will any demolished features be disposed of on site or off-site? For materials disposed of on site, please specify the approximate location of disposal. For materials disposed of off-site, please provide an estimated distance to the disposal location.

Response 7

The truck scale and scale house will be removed during final reclamation. Approximately 16 yards of concrete will be removed from the concrete pad beneath the structures. The concrete will recycled, and mixed in with other fill material onsite to be used as fill material for shore stabilization around the pond.

Item 8

On Figure 1 – Site Layout, the legend shows the permitted disturbance area to be 11.1 acres. <u>Please be advised, the allowed disturbance cannot exceed the approved permit area, which is 11 acres in this case. Please adjust this acreage amount accordingly.</u>

Response 8

The disturbance area has been adjusted to the approved permit area of 11 acres.

Item 9

On Figure 4 – Post Mining Land Use and Reclamation Plan, features from both of the proposed reclamation plans are shown on this map, including the potential water feature and the potential pond backfill area (from the 2nd proposed reclamation plan). <u>Please provide a separate reclamation plan map for each of the proposed reclamation plans showing how each portion of the affected lands will be reclaimed for each of the proposed plans, including the correct acreages.</u> While the operator will have the option of choosing which reclamation plan to implement at the site (after TR-02 approval), the Division must calculate the required financial warranty based on the most costly reclamation plan plan proposed, in the event the permit was revoked and the State had to complete reclamation of the site. Alternatively, the operator could commit to one reclamation plan, and modify Figure 4 accordingly.

Response 9

Bivens proposes two final reclamation plans, Plan 1 and Plan 2. Both final reclamation plans include additional figures made to match quantities provided in Item 5. Please refer to updated TR-02 for the details of the two reclamation plans.

Thank you for your review of this Technical Revision to the Bivens Pit. The updated TR-02 is included in this letter. Please contact us if you have any questions regarding these actions.

Sincerely, *Telesto Solutions, Inc.*

Tim Gerter

Tim Gerken Staff Geologist

TJG:wln Enclosure cc: Aaron Bivens, Bivens Trucking & Excavating, Inc.

Figures













Attachment 1 Technical Revision 1

Permit #:	Confidental?: <u>N</u>
Class: TR-OI	Type-Seq.:
From: Killion Enterprises	To: DMG
Doc. Name: additional in	to + Extend Decision
Doc. Date (if no date stamp):	<u>10-31-03 Dat</u>



862 W. Willox Ln. Fort Collins, CO 80524 Phone: 970-482-0358 Fax: 970-221-1626

October 29, 2003

Colorado Division of Minerals and Geology Department of Natural Resources 1313 Sherman Street, Room 215 Denver, CO 80203-2273 ATTN: Erica S. Crosby

RECEIVED

OCT 3 1 2003

Division of Minerals and Geology

RE: Reclamation Plan Revision Permit No. M-1985-184

Dear Erica,

We are submitting the reclamation plan revision for your review. Please extend our deadline to November 14, 2003 to allow enough time for processing.

Thank You,

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Vamie Killion Enclosure (1)

AMENDMENTS AND ADDITIONS TO EXISTING RECLAMATION PLAN M-1985-184 KILLION

-The surface water area will be approximately 4.5 acres at final reclamation.

-In addition to mining, the land is used to store and process concrete and asphalt rubble, fill dirt, and topsoil. This material is brought onsite by contractors from different excavation sites in or around Fort Collins. Wood is not accepted and metal is accepted only in wire form and in small amounts.

-The amounts of materials on site average as such:

concrete rubble:	12,000 yd
asphalt rubble:	3,000 yd
processed concrete/asphalt:	4,000 yd
fill dirt:	3,000 yd
topsoil:	6,000 yd

-Unprocessed concrete and asphalt will make acceptable fill materials for the reclamation process including the stabilization of the shorelines and fill. Processed concrete and asphalt is 1" base course and 1.5" rock, both of which can be used for fill materials. The fill dirt and topsoil would then be placed over the rubble or base course and rock for finishing.

-Based on the average amounts, all of the onsite material can be used for reclamation. In the event that there is an excess of material after reclamation is complete Larimer/Weld Irrigation Company that manages the Eaton Ditch has asked that any extra concrete or asphalt rubble be placed against the banks of the ditch for erosion control. Any excess base course or rock can be sold for \$5.00 - \$7.00 per ton.

amie Killin

Jamie/Killion, owner

10/28/03 Date





Attachment 2 Larimer County Use by Special Review Material Recycling

NAUTA FIT NO. 2 SPECIAL REVIEW:

Staff Findings include that the proposed use complies with the intent and purposes of the Comprehensive Zoming Resolution and Comprehensive Plan; the proposed use is compatible with surrounding land uses and should have no significant impact on surrounding properties or land values in the neighborhood, and the proposal would not impair the public health, welfare, prosperity, or safety by creating undesirable traffic concestion, unsanitary conditions, overburdening of utilities or adverse environmental influences in the area. The recommendation of the Planning Commission/Department is approval of the Special Review and the "Public Street Capacity" waiver with the following cenditions: (1) development and operation of the site; to be consistent with the plans as submitted; (2) verification from the Larimer/Weld Ditch Company that they have no objections to the mining plan or to the discharge of water into the ditch; (3) haul trucks are to use only the roads indicated in the application, and (4) crusher would only be operated from 7:00 alm. to 6:00 p.m., Monday through Friday.

3. JONES/VIKING FARMS EXEMPTION:

Staff Findings include that the Jones/Viking Farme Exemption was approved October 15, 1983, with the condition that an Ownership Certificate be received from the owner of Tract 3 indicating consent to the land division; applicants request that the Ownership Certificate requirement be removed, because the owners of Tract 3 are unwilling to execute a consent agreement, and the Assistant County Attorney states no objection to the condition being removed, as owners of Tract 3 would have little equitable grounds for objection to the County's action. The recommendation of the Flanning Department is approval of the request to amend conditions of approval of the Jones/Viking Farm Exemption, by removing the condition that an Ownership Certificate be received from the owner of Tract 3.

DDIIGN

Commissioner Klassen moved that the Board adopt the Staff Findings and approve Nauta Pit No. 1 Special Review; Nauta Fit No. 2 Special Poview an Jones/Viking Farms Exemption, with the conditions outlined for each.

Motion carried 3-0.

4. HANSEN SPECIAL REVIEW:

Jerry White explained that the request is for special review to operate a greyhound breeding kennel on 10.13 acros zoned RE-Rural Estate. The proposal was originally for 50 animals and has been amended to 100. Staff Findings include that the proposed use complies with the intent and purposes of the Comprehensive Plan and Zoning Resolution; if operated and maintained properly, the kennel will have no significant impact on surrounding land uses

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Attachment 3 Approved Augmentation Plan

CENTRAL FILES

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DISTRICT COURT, WATER DIVISION I, STATE OF COLORADO

Case No: 90-CW-129 (W-7813-74)

DECREE OF THE WATER COURT APPROVING PLAN FOR AUCMENTATION

CONCERNING THE APPLICATION FOR APPROVAL OF PLAN FOR AUGMENTATION OF:

CHARLES R. and CONNIE L. NAUTA in LARIMER COUNTY

THIS MATTER came on to be heard upon the Application of Charles R. Nauta and Connie L. Nauta for Approval of Plan for Augmentation filed in this Court on July 9, 1990. The Applicants appeared by and through their attorney, John E. Reii of NELSON, REID & SCHWARTZ. The Court being fully advised in the premises, does hereby find:

All notices required by law of the filing of this application have been fulfilled, and the Court has jurisdiction over this application.

The time for filing statements of opposition expired September 30, 1990. One statement of opposition to said application was filed by the Central Colorado Water Conservancy District and the Ground Water Management Subdistrict of the Central Colorado Water Conservancy District.

The Findings and Ruling of the Referee, Raymond S. Liesman, were entered August 12, 1991, are generally embodied herein with some modification, and to the extent not so modified are confirmed and approved. Protest to the original Findings and Rulings of the Referee was filed by the State Engineer and the Division Engineer for Water Division No. 1.

All matters contained in the application having been reviewed, and testimony having been taken where such testimony is necessary, and such corrections and modifications made as are indicated by the evidence presented herain, IT IS HEREBY THE JUDGMENT AND DECREE OF THIS COURT:

The name, address and telephone number of the applicants:

CENTRAL FILES

Charles R. Nauta and Connie L. Nauta 832 Wood Street Fort Collins, Colorado 80521 303-482-9537 The name and location of the structure augmented:

Nauta Pit #2, a sand and gravel mining operation located in the SE-1/4 of the SW-1/4 of Section 35, Township 8 North, Range 69 West of the 6th P.M. on a tract of land westerly of the Union Pacific right of way and northerly of the Eaton Ditch, Larimer County, Colorado. The center of the pit to be at a point approximately 1000 fest North and 1600 feet East of the SE Corner, Section 35.

There are no other water rights diverted from this structure.

- Previous decrees for water rights used for з. augmentation:
 - Date entered: February 6, 1979 λ.
 - Case No.: W-7813-74 Β.

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- с.
- Court: District Court, Water Division I Legal Description of points of diversion: SE-1/4 of SW-1/4 of Section 2, and N-1/2 of D. NE-1/4 of NW-1/4 of Section 11, Township 7 North, Range 69 West of the 6th P.M., Larimer County, Colorado
- Salvage Water from Griffin Drain Ε. Source: and Nauta Drain
- Griffin Drain 0.30 cfs; Nauta Drain F. Amount: 0.135 cfs
- G. Appropriation: Griffin Drain August 15, 1914; Nauta Drain June 1, 1964.
- Decreed use: Griffin Drain and Nauta Drain н. for irrigation of 40 acres to east of points of diversion and evaporation replacement.
- Both the Griffin Drain water and 4. Historic Use: the Nauta Drain water were historically used for the irrigation of 40 acres of alfalfa-grass hay meadows in the SEISWI and SWISEI of Section 2, Township 7 North, Range 69 West of the 6th P.M., Larimer County, Colorado, comprising 53 acre feet of water. Affidavits verifying actual diversion of the water eranating from these drain tiles for irrigation of said lands are of record in Case No. W-7513-74 in this Court and by this reference are incorporated herein.
- Statement of Plan for Augmentation: 5. Applicants shall provide replacement water from the adjudicated irrigation and evaporation replacement rights sufficient to augment any

stream depletion and return flow adversely affected by the mining operation conducted by applicant. Three sources of water consumption are associated with this mining operation: moisture loss in materials removed, dust ruppression, and lake evaporation.

Noisture Loss In Materials

A maximum of 30,000 tons of material will be mined per year. At an average moisture content of four percent, 0.88 acre feat of water is required to augment this lose.

Dust Control

Applicant proposes to apply 1/8 inch of water threa times per day for fifty days per year to control dust on the 1,500 linear feet of unpaved haul road on the premises. This equates to 1.08 acre feet of water per year.

Lake Evaporation

Area of Water Surface Left By Mining: 6.05 acres Gross Annual Lake Evaporation: 38.50 inches/year Net Annual Precipitation: 14.47 inches/year Effective Precipitation: 11.38 inches/year Net Annual Lake Evaporation: 27.12 inches/year Annual Lake Evaporation: 14.69 acre feet

Historic Consumptive Use

Wet Meadow - 5.60 acres x 27.4 inches12.79 acre feetPasture Grass - 0.90 acres x 20.4 inches1.53 acre feetGross Consumptive Use14.32 acre feetLess Effective Precipitation6.16 acre feetNet Consumptive Uso8.16 acre feetEvaporation Replacement Required6.53 acre feet

Of the 53 acre fest previously alloted for irrigation, it is assured that fifty percent would be consumptively used leaving 26.50 acre fest for augmentation.

A maximum of 8.49 acre feet of augmentation per year will be required during active mining operations:

Moisture Loss	0.88
Dust Control	3.08
Lake Evaporation	14.69
Lass Historic Consumptive Use	(8.16)
Augmentation Required	8.49

After mining is completed, an annual average of 6.53 acre feet of augmentation will be required.

- 6. Conditions of Approval:
 - a) Augmentation shall be accomplished by adjusting the volume of replacement water on a monthly basis in relation to the actual consumption generated by the mining operation.
 - b) The actual amount of replacement water to be provided by Applicants for moisture loss in materials shall be based on the actual volume of material mined on a monthly basis to be released during the next succeeding month.
 - c) Replacement water to be provided for dust control shall be provided by Applicants on the days water is applied on Applicants premises for such purpose and shall be released in accordance with the chart appended hereto and by reference incorporated herein.
 - d) Replacement water to be provided for lake evaporation shall be provided by Applicants on a monthly basis in proportion to the average monthly evaporation percentage as set forth in the chart appended hereto.
 - e) Replacement water from the drains shall be deposited in the Nauta_Storage_Reservoir through which it shall pass prior to release to the Poudre River. Raleases of replacement water shall be made from the Nauta Storage Reservoir to the Poudre River and shall be regulated by the Water Commissioner. Releases shall be monitored by flow measurement of the wasteway ditch that runs from the northeast corner of the Nauta Storage Reservoir to the Poudre River. Applicants shall receive a credit of fifty percent for all water delivered through the reservoir from the drains.
 - f) Applicants shall maintain a monthly tabulation sheet setting forth the actual monthly data set forth in the chart appended hereto which shall include a report of the

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actual amount of replacement water released in compliance with the terms and conditions of this agreement. Applicants shall operate the plan of augmentation so as to insure there is no deficit in the amount of replacement water.

- g) Any further irrigation of lands historically irrigated by water from the Griffin Drain and the Nauta Drain shall be permanently curtailed.
- h) The applicant shall install and maintain such measuring devices and maintain and provide such records as the Division Engineer may require for administration of this right.
- 7. The aforesaid terms and conditions are adequate to prevent injury to the owner of or persons entitled to use water under any vested water right or any decreed conditional water right.
- 8. Applicants have applied for a well permit for the subject augmented premises which is now pending with the Office of the State Engineer. More than six months have elapsed since Applicants submitted said well permit application.
- 9. Any change of water rights embodied in this augmentation plan from that set forth in the decree identified in paragraph 3 above will not injuriously affect the owner of or persons entitled to use water under any vested water right or any decreed conditional water right for the reason that all said established water rights have previously been adjudicated as salvage water indigenous to Larimer County, Colorado, and in administering this Ruling, the State Engineer shall be guided by the fact that a call to stop the diverting of water would not result in additional water reaching a natural stream.
- 10. This plan of augmentation shall be subject to reconsideration by the water judge on the question of injury to the vested rights of others for a period of 5 years after Nauta Pit #2 is completed pursuant to CRS 37-92-36+(6).
- 11. This plan of augmentation meets all applicable requirements of C. R. S. Sections 37-92-103(9), 302(1)(2) and 305(8).

IT IS ORDERED that the foregoing plan of augmentation is approved subject to the terms and conditions set forth above. MAY 29 152

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, 1992. BY THE COURT: ۰.

ROBERT A. BEHRMAN Water Judge Water Division No. 1 State of Colorado









COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY

1313 Sherman Street, Room 215, Denver, Colorado 80203 ph(303) 866-3567

REQUEST FOR TECHNICAL REVISION (TR) COVER SHEET

File No.: M-	Site Name:	
County	TR#	(DRMS Use only)
Permittee:		
Operator (If Other than Pe	ermittee):	
Permittee Representative:		
Please provide a brief des	cription of the proposed revision:	
Please provide a brief dese	cription of the proposed revision:	

As defined by the Minerals Rules, a Technical Revision (TR) is: "a change in the permit or application which does not have more than a minor effect upon the approved or proposed Reclamation or Environmental Protection Plan." The Division is charged with determining if the revision as submitted meets this definition. If the Division determines that the proposed revision is beyond the scope of a TR, the Division may require the submittal of a permit amendment to make the required or desired changes to the permit.

The request for a TR is not considered "filed for review" until the appropriate fee is received by the Division (as listed below by permit type). Please submit the appropriate fee with your request to expedite the review process. After the TR is submitted with the appropriate fee, the Division will determine if it is approvable within 30 days. If the Division requires additional information to approve a TR, you will be notified of specific deficiencies that will need to be addressed. If at the end of the 30 day review period there are still outstanding deficiencies, the Division must deny the TR unless the permittee requests additional time, in writing, to provide the required information.

There is no pre-defined format for the submittal of a TR; however, it is up to the permittee to provide sufficient information to the Division to approve the TR request, including updated mining and reclamation plan maps that accurately depict the changes proposed in the requested TR.

Required Fees for Technical Revision by Permit Type - Please mark the correct fee and submit it with your request for a Technical Revision.

<u>Permit Type</u>	Required TR Fee	Submitted (mark only one)
110c, 111, 112 construction materials, and 112 quarries	\$216	
112 hard rock (not DMO)	\$175	
110d, 112d(1, 2 or 3)	\$1006	



February 16, 2021

<u>Via Electronic Mail</u>

Amy Eschberger Colorado Division of Reclamation, Mining and Safety 1313 Sherman Street, Room 215 Denver, Colorado 80203 amy.eschberger@state.co.us

Subject: Bivens Trucking and Excavating, Inc – Bivens Pit, Permit No. M-1985184, September 2, 2020 Inspection. Updated TR-02

Dear Ms. Eschberger:

Telesto Solutions, Inc. (Telesto) submits this letter on behalf of Bivens Trucking and Excavating, Inc. (Bivens) in response to your site inspection on September 24, 2020 and your TR-02 adequacy review of the Bivens Pit (M-1985-184) on January 8, 2021. This letter presents an update to the Technical Revision request to the Bivens Pit mine and reclamation plans. Primary topics of the revisions include a post mining land use (PMLU) of recreation and residential living quarters.

Existing Site Conditions

The current approved mine plan is for an 112c sand and gravel operation for an on 11 acre mine pit. At this time, operations and mining disturbed approximately 10.6 acres. The disturbed area includes the reclaimed Phase 1 pit (i.e., 3.6-acre pond), the stockpiling and processing areas around the pond, the 0.3-acre recreational area along the eastern edge of the pond, the truck scale and scale house, and the residential area located at the southern end of the site (Figure 1).

In 2003, the previous permittee, Jamie Killion, submitted the approved Technical Revision No. 1 (TR-1) (Attachment 1). TR-1 decreased the pond area from 6.05 acres to 4.5 acres at final reclamation. Additionally, TR-1 stated that any construction material stockpiled within the permit boundary would be considered reclamation backfill.

At this time, Phase 1 of the mine plan is complete. Currently, the pond is approximately, 3.6 acres. Approximately, 5.0 acres have been reclaimed in accordance with the approved reclamation plan. Approximately, 9,250 cy of topsoil mixed with fertilizer is located at the western edge of the site. Topsoil recycling, amending, and sales is an ongoing part of Bivens' business. Stabilization of the topsoil stockpiles is continual via mechanical means

Grand Junction 751 Horizon Court, Suite 109 Grand Junction, Colorado 81506 970-697-1550 New Mexico Office 1303 Pope Street Silver City, New Mexico 88061 575-538-5620 / 575-538-5625 (FAX) (i.e., grading, loading, hauling sales). Bivens maintains enough topsoil on site to complete reclamation at any time. Thus, Bivens believes that their operations stabilizes the stockpiles, and, due to operation and sales, commit to stabilizing these piles by sloping and seeding with annual grasses as recommended in the site inspection report (DRMS, 2020) if no commercial activities occur for a year.

Since taking over the permit in 2009, Bivens stabilized and revegetated the pond shorelines in accordance with the approved reclamation plan (Figure 2). The site inspection report describes the successful shoreline reclamation and revegetation:

"During the inspection, the Division walked around the perimeter of the pond and observed its shorelines to be graded to 3H:1V or flatter and stable with good vegetative cover consisting of grasses and wetland vegetation (consisting primarily of cattails). Cobblestones have been placed along the pond slopes beneath the water line. Portions of the northwestern and eastern shorelines have been stabilized with boulders. Portions of the southern shoreline have been stabilized with cobblestones. No erosion problems were observed." (DRMS, 2020).

Bivens requests acceptance of this Technical Revision 2 (TR-2) to the approved mine plan, reclamation plan, and TR-1 as described in the next two sections.

Updated Mine Plan

Bivens plans to continue mining the pit from Phase 1 (i.e., the existing pond) to the south and expanding the pond from 3.6 acres to a total pond size 4.8 acres (Figure 3). The proposed mining to the south of the current pond is described as the Final Phase. As an option to the Final Phase, Bivens may excavate an area that was previously mined and backfilled to create an island (Figure 3).

During the Final Phase, the operator may choose to mine the final phase "wet". If the operator chooses to dewater the existing pit, the operator would berm in between and then mine out the last berm. Regardless, operator commits to obtaining all required water quality permits prior to the start of mining. Bivens will screen and crush mined material in the processing area. Bivens will incorporate aggregate/construction materials recycling into the mined material processing as approved by their Larimer County special use permit (Attachment 2). Bivens will continue to use the eastern edge of the permit area as the processing and storage area for additional mined material, concrete and asphalt rubble, fill dirt, sand and rock (Figure 3). The area will cover approximately, 1.7-acres within the permit area. A portion of the mined, crushed and/or recycled material will be sold and hauled off site. Bivens estimates no more than, 28,000 cy of imported materials will be stored on site at a time, per TR-1. Bivens may backfill a part or all of the Final Phase pit

with inert fill material as allowed in the current permit (e.g., material from the optional remined area).

Completion of mining the Final Phase will be congruous with construction material recycling operation until all material not needed for reclamation is sold and hauled off-site. At a minimum, Bivens will keep 1,050 cy of road base material onsite for reclamation of the 1.7 acres area. Stockpiled material, including concrete, asphalt, sand, fill dirt, topsoil, sand and rock will remain onsite and be considered as reclamation backfill material in the event the financial warranty was forfeited, and the State had to complete reclamation to the site.

During the Final Phase of mining, additional salvaged topsoil will be stored with existing topsoil stockpiles to the land to west/southwest of the pond. Topsoil will continue to be stripped at an 8 to 12-inch depth. If topsoil stockpiles exist in a non-commercial state for more than one growing season, then they will be sloped to 3:1 V or flatter and seeded with a fast-growing vegetative cover, per the approved permit.

During the Final Phase, the residential area will remain at its current location at the southern end of the site (Figure 3). This area includes a residential house, garage, carport, chainlink fence, rock bins and stockpile materials. The residential area is part of the requested TR-2 as an approved PMLU (see next section).

The eastern edge of the existing pond will remain as recreational beach area (Figure 3). The recreational area includes a sandy beach, trees, a small dock, gravel boat ramp, a few small cabins, a fire pit, picnic area, a playground, wooden fencing, and artistic structures. The recreational area covers approximately, 0.3-acre. The recreational area is part of the requested TR-2 as an approved PMLU (see next section).

Updated Post Mining Land Use and Reclamation Plan

Reclamation will be continuous throughout the Final Phase mining process. As more shoreline is created and expanding of the pond progresses, topsoil will be replaced, at a depth of 12-inches, along banks. The topsoil will be seeded with the approved seed mix (Table 1), as soon as practical (late fall or early spring). The banks will be graded a minimum 3H:1V slope from 5 feet above to 10 feet below expected water line. Shorelines and banks will be stabilized with boulders, cobblestones, and/or concrete riprap as needed to prevent erosion. The northern, reclaimed portion of the reclaimed shoreline will be left undisturbed.

Table 1 Reclamation Seed Mix			
Species	Drill Seeded lbs PLS/Acre	Seed/ ft ²	
Switchgrass	1.2	10.0	
Slender Wheatgrass	2.9	10.0	
Tall Wheatgrass	3.6	7.0	
Alkali Sacaton	0.3	8.0	
Total	8.0	35.0	

Bivens request two potential reclamations plans, Plan 1 and Plan 2 as shown in Figures 4 and 5, respectively. The main difference in the two plans is Plan 1 involves an island left at the end of mining, while Plan 2 is without.

Reclaimed Pond

Under both reclamation plans, the pond will be used as water storage and for recreational. During mining, Bivens will place the re-mined material into the southern portion the Final Phase mine pit leaving a recreational island. In Plan 1, the total surface area of the waterbody, including the water feature would be 4.8 acres.

During mining, the shorelines will be graded to 3H:1 V slope, stabilized, and compacted. Reclamation will involve stabilizing the shoreline by placing riprap at the water's edge and seeding with the approved seed mix. The reclaimed pond shoreline on the northern end of the pond will not be disturbed and the existing beach area along the eastern shore (western shore of the island) will remain at 5:1 V:H for recreational access. Table 2 lists the reclamation quantities associated with shoreline reclamation.

Evaporative losses from the open water surface area is covered by the court-approved water augmentation plan (Attachment 3). Bivens in correcting an omission from the previous owners regarding a gravel-pit well permit, for which an application was submitted but a final permit never issued.

RV Parking

RV parking is included in both plans: Plan 1 has parking south of the pond, while Plan 2 has parking east of the pond shown in Figures 4 and 5, respectively. The reclaimed parking lots would be covered with 6-inches of road base material that is stockpiled onsite during mining. Parking areas will be graded to drain to the pond at a 0.5% slope. Table 2 summarizes the quantities for RV Parking reclamation.

Revegetation Areas

In addition to the vegetation area around the pond, reclamation includes revegetating the areas on both sides of the access roads, the perimeter of the RV parking lot, and the land around the residential area (Figures 4 and 5). Revegetation areas will be covered with 12 inches of topsoil, tilled, and drill seeded with the approved reclamation grass seed mix Table 1 lists the proposed reclamation seed mix.

Access Roads

Reclaimed access roads will skirt the perimeter of the pond, and allow two entrances and exits from the parking areas (Figures 4 and 5). The access road widths will be no less than, 20-feet wide to allow two-way traffic and be topped with 6-inches of road base. At a minimum, this amount of road base material (in addition to the road base for the parking lot area) will be stored on site throughout the mining and saved for the reclamation process.

Truck Scale

Bivens will remove the truck scale and scale house at the end of operations. Approximately 16 yards of the concrete pad will be removed from underneath the structures. The removed concrete will be recycled, and mixed in with other fill material onsite to be used as fill material for shore stabilization around the pond. The area will be scarified, retopsoiled, and revegetated, per the approved permit. The topsoiled used for reclamation has been accounted for in the site's total revegetated area.

Residential Area

Bivens requests the residential area and associated structures, located at the southern end of the site, remain following final reclamation (Figure 4) as an approved PMLU. The residential area and associated structures cover approximately, 0.5-acre.
To: Amy Eschberger, DRMS Date: 2/16/2021 Page 6

Table 2Reclamation Quantities

	Plan 1	Plan 2		
ltem	Quantity		Units	Notes
Unreclaimed Shoreline	1,101	693	ft	Not including already reclaimed area
Seeding Area	0.25	0.16	ас	10' strip around shoreline
Rip Rap	122	77	су	3' wide, 1' thick at water's edge
RV Parking Lot	1.0	1.3	ас	
Grading	565	734	су	Assumes area left flat after mining, triangle
				to triangle cross-section
Average Grading Dist	70	70	ft	Estimated centroid to centroid
Road Base	810	1,050	су	Area times 6 inches
Reclaimed Access Roads	1.3	1.3	ас	
Widths	20	20	ft	
Road Base	1,050	1,050	су	Area times 6 inches
Revegetation	3.0	2.8	ас	
Topsoil	4,840	4,520	су	Area times 12 inches

To: Amy Eschberger, DRMS Date: 2/16/2021 Page 7

Summary

For TR-2, Bivens includes the following mine plan revisions:

- Continue mining the remaining mining phase (Final Phase 1.3 acres)
- Process mined materials in conjunction with construction recycling
- Cessation of mining and processing operations indicates the end of mining

For TR-2, Bivens submits the following changes to the PMLU and reclamation plan 1:

- Include recreation and permanent residence as an approved PMLU
- Road-base covered RV parking to the south of the pond and access roads around the pond
- Revegetated lands surrounding the access roads, residential area, and RV parking/water park
- 4.8 acres of open water storage (pond) with sloped 3H:1V
- 1101 feet of pond shoreline will need to be reclaimed
- A water feature (included in the total pond size of 4.8 acres) and recreational beach island (increased by 0.1 acres)

For TR-2, Bivens submits the following changes to the PMLU and reclamation plan 2:

- Include recreation and permanent residence as an approved PMLU
- Road-base covered RV parking to the east of the pond and access roads around the pond
- Revegetated lands surrounding the access roads, residential area, and RV parking
- 4.8 acres of open water storage (pond) with slopes ranging from 5H:1V (recreation area) to 3H:1V for remaining areas
- 693 feet of pond shoreline will need to be reclaimed

Furthermore, for TR-2, Bivens commits to storing enough road base material and topsoil onsite required for reclamation Plan 2. So regardless of which reclamation plan Bivens decides to proceed with, enough material will be stored onsite.

Thank you for your review of this Technical Revision to the Bivens Pit. Please contact us if you have any questions regarding these actions.

Sincerely, *Telesto Solutions, Inc.*

To: Amy Eschberger, DRMS Date: 2/16/2021 Page 8

Jin Gerter

Tim Gerken Staff Geologist

TJG:wln Enclosure cc: Aaron Bivens, Bivens Trucking & Excavating, Inc.

	n No.	COLORADO DIVISION OF WATER RESOURCES	For Office Use only			
GVVS 01/2	S-27 020	DEPARTMENT OF NATURAL RESOURCES 1313 Sherman St., Ste 821, Denver, Colorado 80203				
	Phone: (303) 866 2223					
		DWR Web: dwr.colorado.gov Email: dwrpermitsonline@state.co.us REVIEW INSTRUCTIONS PRIOR TO COMPLETING FORM				
GR	AVE	_ PIT WELL PERMIT APPLICATION				
1.		OF PERMIT				
		IEW PIT(S)				
		IT(S) EXIST, CONSTRUCTED AFTER DEC. 31, 1980				
2.	2. <u>APPLICANT INFORMATION</u>					
		:(S)				
		g Address				
		St. Zip				
	Phone	e (w/ area code)Email:				
3.		SULTANT/ATTORNEY/OPERATOR CONTACT (If different than #2)				
			PIT NAME			
		g Address	DRMS NO			
		St. Zip				
		e (w\ area code)Email:				
4.	<u>GENE</u>	RAL LOCATION OF PIT(S): COUNTY				
		1/41/4, Sec Twp N. S., Range				
5.	Estimated maximum water surface to be exposed: Acres. Number of Pits					
6.	Estimated depth of pit(s)Ft. Estimated depth to groundwaterFt.					
7.	Estimated date to expose groundwater; date to complete mining					
8.	ATTACHMENTS: (Check which have been attached.)					
	(a)		ed (REQUIRED).			
	(b)	Copy of the reclamation permit, if applicable.				
	(c) Copy of pre 1/15/89 water conservancy dist. or water user assoc. augmentation agreement, if applicable.					
	(d) Copy of proposed substitute water plan or augmentation plan application, if applicable.					
	(e) Copy of court approved augmentation plan, if applicable. Case No					
	(f) Other					
9.	Detailed description of any use, other than evaporation, and method of diversion, rate of diversion, and annual amount of					
0.	diversion of any water withdrawn from the pond.					
10.	Will c	ewatering occur within the DRMS permit boundary				
11.	know	have read the statements made herein and know the contents thereof, and the edge. [Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false state second degree and is punishable as a class 1 misdemeanor.]				
Sign		r name(s) of submitter If signing print name & title	Date (mm/dd/yyyy)			
For C	Office Us	e only	1			
Cour	rt Case	No Div Co WD Basin MD Use				

GRAVEL PIT WELL PERMIT APPLICATION – INSTRUCTIONS

Applications must be computer generated online, typewritten, or printed in BLACK or BLUE INK. ALL ITEMS in the application must be completed. Incomplete applications may be returned for more information. Attach additional sheets if more space is needed. If filing online see online filing instructions! You may also print, scan and email the completed form to: dwrpermitsonline@state.co.us

This applications is for use in applying for a well permit for a gravel pit that exposes groundwater to evaporation as required under the provision of 37-90-107(6) or 37-90-137(11), C.R.S. If this is not such a gravel pit, use General Purpose Application Form GWS-45. A permit is not required if the pit was constructed prior to December 31, 1980 and has not been operated or reactivated after that date.

<u>FEES</u> This application requires a nonrefundable filing fee of \$100. One application is required for each DRMS permit area. After submitting this form to <u>dwrpermitsonline@state.co.us</u>, you'll be provided with the payment options.

A substitute supply plan or augmentation plan may be required for approval where groundwater was exposed after December 31, 1980. These plans are submitted separately and a filing fee of \$1,593.00 is <u>required</u>. These plans may not be needed in areas where water is available and all other water rights are satisfied.

- ITEM 1 TYPE OF PERMIT Check the appropriate box.
- ITEM 2 APPLICANT INFORMATION This is the applicant's name and the mailing address where all correspondence will be sent. Include the phone number.
- ITEM 3 CONSULTANT/ATTORNEY/OPERATOR CONTACT If there is someone different than the applicant to be contacted for additional information, then complete this item.

Indicate the name of the gravel pit and the assigned DRMS number (include any prior DRMS/MLRD permit numbers that may be assoicated with this pit.

- ITEM 4 LOCATION OF WELL The general location of the well (pit) must be indicated and include a quarter/quarter, Section, Township, Range and Principal Meridian. An outline of the pit(s) on a USGS 7 1/2 minute quadrangle map is desirable.
- ITEM 5 Indicate the maximum number of acres of groundwater to be exposed to the atmosphere and the total number of excavated areas (pits) covered within the DRMS permit.
- ITEM 6 Indicate the estimated proposed or actual depth of the pit(s), and estimated depth to groundwater.
- ITEM 7 Indicate the estimated dates of beginning to expose groundwater and completing the mining.
- ITEM 8 ATTACHMENTS The list of attachments to this application provides information which is necessary to the evaluation. A scaled map of the pit area tied to a section corner is required.
- ITEM 9 USE Complete this item if water is to be used for any purpose other than evaporation, those uses must be detailed. The information required includes but is not limited to the volume of gravel mined, the method of diversion of water from the pit, the pumping rate in gallon per minute, the average annual amount of water diverted or used in acre-feet, and the proposed use.
- ITEM 10 DEWATERING Specify whether dewatering will occur within the DRMS permit boundary.
- ITEM 11 SIGNATURE The individual signing the application or entering their name (and title if applicable) must be the applicant or an officer of the corporation/company/agency identified as the applicant or their attorney. An authorized agent may also sign or enter their name on the application if a letter signed by the applicant or their attorney is submitted with the application authorizing that agent to sign or enter their name on the applicant's behalf. Payment must be received via phone if filing online at 303.866.3581 (Records Office) prior to processing the application.

IF YOU HAVE ANY QUESTIONS regarding any item on the application form, please call the Division of Water Resources Ground Water Information Desk (303-866-3587), or the nearest Division of Water Resource Field Office located in Greeley (970-352-8712), Pueblo (719-542-3368), Alamosa (719-589-6683), Montrose (970-249-6622), Glenwood Springs (970-945-5665), Steamboat Springs (970-879-0272), or Durango (970-247-1845).

Scaled Map of Bivens Pit





Copy of Court Approved Augmentation Plan

CENTRAL FILES

RECEIVED

JUE 1-'92

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DISTRICT COURT, WATER DIVISION I, STATE OF COLORADO

Case No: 90-CW-129 (W-7813-74)

DECREE OF THE WATER COURT APPROVING PLAN FOR AUCMENTATION

CONCERNING THE APPLICATION FOR APPROVAL OF PLAN FOR AUGMENTATION OF:

CHARLES R. and CONNIE L. NAUTA in LARIMER COUNTY

THIS MATTER came on to be heard upon the Application of Charles R. Nauta and Connie L. Nauta for Approval of Plan for Augmentation filed in this Court on July 9, 1990. The Applicants appeared by and through their attorney, John E. Reii of NELSON, REID & SCHWARTZ. The Court being fully advised in the premises, does hereby find:

All notices required by law of the filing of this application have been fulfilled, and the Court has jurisdiction over this application.

The time for filing statements of opposition expired September 30, 1990. One statement of opposition to said application was filed by the Central Colorado Water Conservancy District and the Ground Water Management Subdistrict of the Central Colorado Water Conservancy District.

The Findings and Ruling of the Referee, Raymond S. Liesman, were entered August 12, 1991, are generally embodied herein with some modification, and to the extent not so modified are confirmed and approved. Protest to the original Findings and Rulings of the Referee was filed by the State Engineer and the Division Engineer for Water Division No. 1.

All matters contained in the application having been reviewed, and testimony having been taken where such testimony is necessary, and such corrections and modifications made as are indicated by the evidence presented herain, IT IS HEREBY THE JUDGMENT AND DECREE OF THIS COURT:

The name, address and telephone number of the applicants:

CENTRAL FILES

Charles R. Nauta and Connie L. Nauta 832 Wood Street Fort Collins, Colorado 80521 303-482-9537 The name and location of the structure augmented:

Nauta Pit #2, a sand and gravel mining operation located in the SE-1/4 of the SW-1/4 of Section 35, Township 8 North, Range 69 West of the 6th P.M. on a tract of land westerly of the Union Pacific right of way and northerly of the Eaton Ditch, Larimer County, Colorado. The center of the pit to be at a point approximately 1000 fest North and 1600 feet East of the SE Corner, Section 35.

There are no other water rights diverted from this structure.

- Previous decrees for water rights used for з. augmentation:
 - Date entered: February 6, 1979 λ.
 - Case No.: W-7813-74 Β.

2.

- с.
- Court: District Court, Water Division I Legal Description of points of diversion: SE-1/4 of SW-1/4 of Section 2, and N-1/2 of D. NE-1/4 of NW-1/4 of Section 11, Township 7 North, Range 69 West of the 6th P.M., Larimer County, Colorado
- Salvage Water from Griffin Drain Ε. Source: and Nauta Drain
- Griffin Drain 0.30 cfs; Nauta Drain F. Amount: 0.135 cfs
- G. Appropriation: Griffin Drain August 15, 1914; Nauta Drain June 1, 1964.
- Decreed use: Griffin Drain and Nauta Drain н. for irrigation of 40 acres to east of points of diversion and evaporation replacement.
- Both the Griffin Drain water and 4. Historic Use: the Nauta Drain water were historically used for the irrigation of 40 acres of alfalfa-grass hay meadows in the SEISWI and SWISEI of Section 2, Township 7 North, Range 69 West of the 6th P.M., Larimer County, Colorado, comprising 53 acre feet of water. Affidavits verifying actual diversion of the water eranating from these drain tiles for irrigation of said lands are of record in Case No. W-7613-74 in this Court and by this reference are incorporated herein.
- Statement of Plan for Augmentation: 5. Applicants shall provide replacement water from the adjudicated irrigation and evaporation replacement rights sufficient to augment any

stream depletion and return flow adversely affected by the mining operation conducted by applicant. Three sources of water consumption are associated with this mining operation: moisture loss in materials removed, dust ruppression, and lake evaporation.

Noisture Loss In Materials

A maximum of 30,000 tons of material will be mined per year. At an average moisture content of four percent, 0.88 acre feat of water is required to augment this lose.

Dust Control

Applicant proposes to apply 1/8 inch of water threa times per day for fifty days per year to control dust on the 1,500 linear feet of unpaved haul road on the premises. This equates to 1.08 acre feet of water per year.

Lake Evaporation

Area of Water Surface Left By Mining: 6.05 acres Gross Annual Lake Evaporation: 38.50 inches/year Net Annual Precipitation: 14.47 inches/year Effective Precipitation: 11.38 inches/year Net Annual Lake Evaporation: 27.12 inches/year Annual Lake Evaporation: 14.69 acre feet

Historic Consumptive Use

Wet Meadow - 5.60 acres x 27.4 inches12.79 acre feetPasture Grass - 0.90 acres x 20.4 inches1.53 acre feetGross Consumptive Use14.32 acre feetLess Effective Precipitation6.16 acre feetNet Consumptive Uso8.16 acre feetEvaporation Replacement Required6.53 acre feet

Of the 53 acre fest previously alloted for irrigation, it is assured that fifty percent would be consumptively used leaving 26.50 acre fest for augmentation.

A maximum of 8.49 acre feet of augmentation per year will be required during active mining operations:

Moisture Loss	0.88
Dust Control	3.08
Lake Evaporation	14.69
Lass Historic Consumptive Use	(8.16)
Augmentation Required	8.49

After mining is completed, an annual average of 6.53 acre feet of augmentation will be required.

- 6. Conditions of Approval:
 - a) Augmentation shall be accomplished by adjusting the volume of replacement water on a monthly basis in relation to the actual consumption generated by the mining operation.
 - b) The actual amount of replacement water to be provided by Applicants for moisture loss in materials shall be based on the actual volume of material mined on a monthly basis to be released during the next succeeding month.
 - c) Replacement water to be provided for dust control shall be provided by Applicants on the days water is applied on Applicants premises for such purpose and shall be released in accordance with the chart appended hereto and by reference incorporated herein.
 - d) Replacement water to be provided for lake evaporation shall be provided by Applicants on a monthly basis in proportion to the average monthly evaporation percentage as set forth in the chart appended hereto.
 - e) Replacement water from the drains shall be deposited in the Nauta_Storage_Reservoir through which it shall pass prior to release to the Poudre River. Raleases of replacement water shall be made from the Nauta Storage Reservoir to the Poudre River and shall be regulated by the Water Commissioner. Releases shall be monitored by flow measurement of the wasteway ditch that runs from the northeast corner of the Nauta Storage Reservoir to the Poudre River. Applicants shall receive a credit of fifty percent for all water delivered through the reservoir from the drains.
 - f) Applicants shall maintain a monthly tabulation sheet setting forth the actual monthly data set forth in the chart appended hereto which shall include a report of the

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actual amount of replacement water released in compliance with the terms and conditions of this agreement. Applicants shall operate the plan of augmentation so as to insure there is no deficit in the amount of replacement water.

- g) Any further irrigation of lands historically irrigated by water from the Griffin Drain and the Nauta Drain shall be permanently curtailed.
- h) The applicant shall install and maintain such measuring devices and maintain and provide such records as the Division Engineer may require for administration of this right.
- 7. The aforesaid terms and conditions are adequate to prevent injury to the owner of or persons entitled to use water under any vested water right or any decreed conditional water right.
- 8. Applicants have applied for a well permit for the subject augmented premises which is now pending with the Office of the State Engineer. More than six months have elapsed since Applicants submitted said well permit application.
- 9. Any change of water rights embodied in this augmentation plan from that set forth in the decree identified in paragraph 3 above will not injuriously affect the owner of or persons entitled to use water under any vested water right or any decreed conditional water right for the reason that all said established water rights have previously been adjudicated as salvage water indigenous to Larimer County, Colorado, and in administering this Ruling, the State Engineer shall be guided by the fact that a call to stop the diverting of water would not result in additional water reaching a natural stream.
- 10. This plan of augmentation shall be subject to reconsideration by the water judge on the question of injury to the vested rights of others for a period of 5 years after Nauta Pit #2 is completed pursuant to CRS 37-92-36+(6).
- 11. This plan of augmentation meets all applicable requirements of C. R. S. Sections 37-92-103(9), 302(1)(2) and 305(8).

IT IS ORDERED that the foregoing plan of augmentation is approved subject to the terms and conditions set forth above. MAY 29 152

D&/ED:

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, 1992. BY THE COURT: ۰.

ROBERT A. BEHRMAN Water Judge Water Division No. 1 State of Colorado

Original Gravel Pit Application (Permit Never Finalized)

-		RECEIVED .			
	SEE INSTRUCTIONS ON REVERSE SIDE	JUL 1 3 1990			
	RAVEL PIT WELL PERMIT APPLICATION				
þ .	TYPE OF PERMIT				
	NEW PIT(S)				
	X PIT(S) EXIST, CONSTRUCTED AFTER DEC. 31, 1980	8 7-13-90 3:38 P			
	REACTIVATION OF PRE JAN. 1, 1981 PIT(S)	032472 60.00			
2	OWNER	NNXOD6 F9813			
		CVLAUC 79.00			
	NAME(S) <u>Charles R. Nauta and Connie L. Nauta</u>	PITU10 F00660 S/T 130.00			
	Mailing Address <u>832 Wood Street</u> City, St Zip Fort Collins, CO 80521	TTL 138.00			
	Phone (303) 482-9537	CHEQUE 130.00			
		CHG 0.00 ITH 2			
3.	ADDRESS OF LOCAL CONTACT (If different than #2)	CL-1 145465			
	NAME(S) <u>John E. Reid, Attorney at Law</u>				
	Mailing Address 215 West Oak. Suite 720	An 8/28/90			
	City, St. Zip <u>Fort Collins, Colorado 80521</u>				
	Phone (303) 482-3633	315485			
4.	GENERAL LOCATION OF PIT(S): COUNTY LARINER	-			
	SE 1/4 SW 1/4, Sec. 35 Twp. 8 XN. S., Range 69 E. W. 6th P.M.				
5.	Total number of water surface acres (to be) exposed 6.50. T	otal Number of Pits One (1)			
6.	Estimated total depth of pit 12 feet Estimated depth to ground	water_1.5 feet.			
7.	(a) Estimated date to begin excavation <u>October 1985</u> , to comp	lete excavation approximately 15 yrs.			
	ATTACHMENTS: (Check which have been attached.)				
	(a) X Scaled map of pit area tied to a Section or 1/4 Corner (Required).				
{	(b) Copy of the reclamation permit if applicable.				
	(c) Copy of Pre 1/15/89 Water Conservancy Dist. or Water User As	soc. Augmentation Agreement 3 applicable			
	(d) X Copy of proposed Augmentation or Temporary Supply Plan if applicable.				
	(E) Copy of Court approved Augmentation Plan if applicable.				
	() X Other Owner's check for \$130.00 payable to	Office of the State Enginee			
9.	9. Detailed description of the use and method of diversion of any water withdrawn from the pond.				
	<u>Three sources of water consumption are associated with Nauta Pit #2 consisting of</u>				
1	moisture loss in materials extracted, water used in dust suppression and surface evaporation.				
10.	10 I (we) have read the statements made herein and know the contents thereof, and that they are true to my (our)				
knowledge. [Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a class 1 misdemeanor.]					
Name/Title mass type or print Signature () (as the D Chauge Date					
Į	Charles R. Nauta Connie L. Nauta July 5, 1990				
Γ	For Office Use only				
Court Case No Div Co. <u>35</u> wD <u>03</u> Basin MD Use					
L					

Governor



State Engineer

OFFICE OF THE STATE ENGINEER DIVISION OF WATER RESOURCES

> 1313 Sherman Street-Room 818 Denver, Colorado 80203 (303) 866-3581

> > August 23, 1990

Charles R. Nauta 832 Wood Street Fort Collins, CO 80521

RE: Gravel Pit Well Permit Application, Receipt No. 315485

Dear Mr. Nauta:

This letter is to acknowledge receipt of the above referenced gravel pit well permit application and supporting documentation. Before we can act on your permit application, the proposed substitute supply plan must be reviewed since the ground water is hydraulically connected to an over-appropriated stream system. The provisions of Senate Bill 120 which require the registration of gravel pits pursuant to C.R.S. 37-90-137(11) also anticipates that the services of outside consultants will be required in the evaluation of any proposed substitute supply plan.

It is the policy of this office that if it appears that we will not be able to act on an application in a timely manner, due to some delay in evaluation of the substitute supply plan, we will return the application to the applicant to await completion of the evaluation of that plan. As the Well Permit Evaluation Section anticipates that there will be some delay in the evaluation of the substitute supply plans, we are returning your permit application to you, to be held until such time as your substitute supply plan has been approved by the Engineering Section of this office.

All supporting documentation attached to your application is being retained in our files. When you have received approval of your substitute supply plan, please return the original gravel pit well permit application to this office with appropriate amendments, if necessary, to agree with the approved plan.

Feel free to contact this office if you have any questions.

Sincerely,

mother Mustry

Mr. Kris Murthy, P.E. Water Resources Engineer Ground Water Section

Enclosure