

July 25, 2024

Joshua Godwin, P.E.
Project Manager
Colorado Water Conservation Board
1313 Sherman St., Rm. 718
Denver, CO 80203

Re: FINAL REPORT
Ogilvy Irrigating and Land Company – Seeley Reservoir Maintenance Project
CMS112083 and CMS112163

Dear Joshua:

On behalf of Ogilvy Irrigating and Land Company (“OILC”), I am providing this letter summarizing the referenced project. The project is now at substantial completion with only site re-seeding work remaining.

Timeline of Events

The following is a timeline of significant items completed for this project.

1. 2/11/2019 – CWCB Water Plan Grant contract finalized for an amount of \$1,415,740.00.
2. 2/15/2019 – CWCB Loan contract finalized for an amount of \$2,274,520.00, including 1% service fee, with a term of 30 years and rate of 1.7% per annum.
3. 11/2019 – Prepared report from SWCA Environmental Consultants on the wetland delineation of the project area was completed and provided to OILC and U. S. Army Corps of Engineers (“USACE”)
4. 12/10/2019 – USACE provided notification to OILC that in accordance with Section 404 of the Clean Water Act, Seeley Reservoir was determined to be an excluded waterway and is therefore not jurisdictional. The jurisdictional determination is valid for a period of five years, or until 12/10/2024.
5. 1/2020 – COVID-19 pandemic begins in the United States causing significant disruptions to the progression of the project and significant construction cost increases.
6. 3/20/2020 – OILC received Floodplain Development permit from Weld County for the project.
7. 9/28/2022 – OILC and Ogilvy Augmentation Company (“OAC”) acquire Loloff Reservoir, a reclaimed and lined gravel pit with a storage capacity of 1,998 acre-feet.
8. 11/11/2022 – OILC entered into agreement with PDC to allow deposition of dredged materials onto PDC properties located immediately south of Seeley Reservoir.
9. 12/13/2022 – During the annual shareholder meeting of the OILC, shareholders confirmed the selection of Four C Sons, Inc. as the primary contractor for the Seeley Dredge project.

10. 2/3/2023 – OILC receives traffic control plan from Area Wide Protective to close WCR 66/AA St. to facilitate the hauling of dredge materials from Seeley Reservoir to the PDC site.
11. 4/11/2023 – Drone survey of Seeley Reservoir dredge area was completed to establish baseline topography. Access easements staked.
12. 6/27/23 – CWCB Grant contract deadline extended from 6/30/23 to 12/21/25.
13. 12/12/2023 – OILC enters written contract with Four C Sons to perform the work.
14. 12/13/2023 – Four C Sons begins mobilizing to the project site and initiates clearing, grubbing, water handling, excavation and hauling work.
15. 5/1/2024 – Four C Sons completes the sediment removal and hauling work. Work continues with the sediment basin construction and final grading.
16. 5/10/24 - A comprehensive final survey of the site was conducted. The results of the survey show a net volume of 706,416 cubic yards of sediment removed from the reservoir.
17. 7/1/2024 – Four C Sons completes the sediment basin. Work continues for the final grading and re-seeding.
18. 7/16/2024 – OILC receives finalized amendment to loan contract increasing the funds available for the removal of an additional 125,000 cubic yards of sediment and construction of sediment basin at the inlet of the reservoir.

Summary of Export Volumes

The final survey of the site was conducted by Lat40 Inc. by use of an aerial drone. The results of the survey concluded that a total of 706,416 cubic yards of sediment was removed from the reservoir. Intermediate surveys were conducted throughout the project. The following table summarizes the surveys and the calculated net export, average export volume per day, and cumulative export volume.

Survey Date	# Days Between Surveys	Note	Incremental Net Export (cy)	Export Volume per Day (cy/day)	Cumulative Net Export (cy)
5/11/2023		Baseline survey completed			-
12/26/2023		Approx. start of project			-
1/5/2024	10	Surveyed topo	38,115	3,812	38,115
1/25/2024	20	Surveyed topo	71,947	3,597	110,062
2/8/2024	14	Surveyed topo	40,560	2,897	150,622
3/6/2024	27	Surveyed topo	174,463	6,462	325,085
4/4/2024	29	Surveyed topo	214,421	7,394	539,506
5/10/2024	36	Surveyed topo - FINAL	166,910	4,636	706,416

A copy of the final survey is attached.

Agencies and Contractors

SWCA Environmental Consultants were contracted to prepared draft submittal documents for the Seeley Lake Reservoir Maintenance Project, including an aquatic resources inventory report, preconstruction notification, and cover letter. Subsequently, the U.S. Army Corps of Engineers determined that Seeley Reservoir is an excluded waterway and was therefore not jurisdictional. No permit was required from the Corps for the Seeley Reservoir Maintenance Project.

Area Wide Protective (“AWP”) was contracted for road closures and traffic control during the project. AWP posted message boards on December 18, 2023 and AA Street was closed beginning December 26, 2023 to accommodate the hauling from Seeley Reservoir to the PDC site located of AA Street.

AGPROfessionals (“AGPRO”) was contracted to prepare grading plans and acquire the necessary permits for the project. AGPRO corresponded with Colorado Division of Reclamation, Mining and Safety (“DRMS”) about the project. DRMS personnel determined that the removal of sediment from the reservoir did not trigger a need for permitting, but that a DRMS permit would be required for the reclamation of the sediment stockpile areas. AGPRO is currently working with OILC and Four C Sons to obtain the necessary permit from DRMS.

Can-Do Concrete Construction, Inc. was contracted to construct the concrete flume structure at the sediment basin outfall to Seeley Reservoir.

La40 Surveying was contracted to perform surveying throughout the project. The surveys were utilized to confirm the net volume of sediment removed from the site. In general, the surveyed volumes tracked very closely to the contractor volumes that were based upon load counts and weights. The final volume determined by the surveyor was less than 1% different than that determined by the contractor. A copy of the final survey is attached.

Costs

The project has not incurred any significant cost overruns. The most recent pay request (#12) shows a total project cost of \$4,415,533.42, with a total of \$252,206.58 remaining available on the CWCB loan. This remaining amount is expected to be more than sufficient to cover the remaining costs for this project, which are primarily grading and re-seeding.

Issues Resolved

There were no significant issues during the project. The contractor encountered significant volumes of water inflow during the project but successfully channeled the water and installed pumps to route the water around the working areas.

Joshua Godwin, P.E.

July 25, 2024

Page 4

The project was not completed in time to capture spring runoff and re-fill the reservoir. To address this issue, the OILC has planned to transfer water from other sources and/or exchange water stored in Loloff Reservoir into Seeley Reservoir. By doing so, the water level will be increased such the boating and recreation can be enjoyed for the remainder of the season.

Photos

Attached are various photos taken throughout the project.

Sincerely,

NOCO ENGINEERING, INC.

Douglas C. Seely, P. E.

Attachments: Site survey
Photos

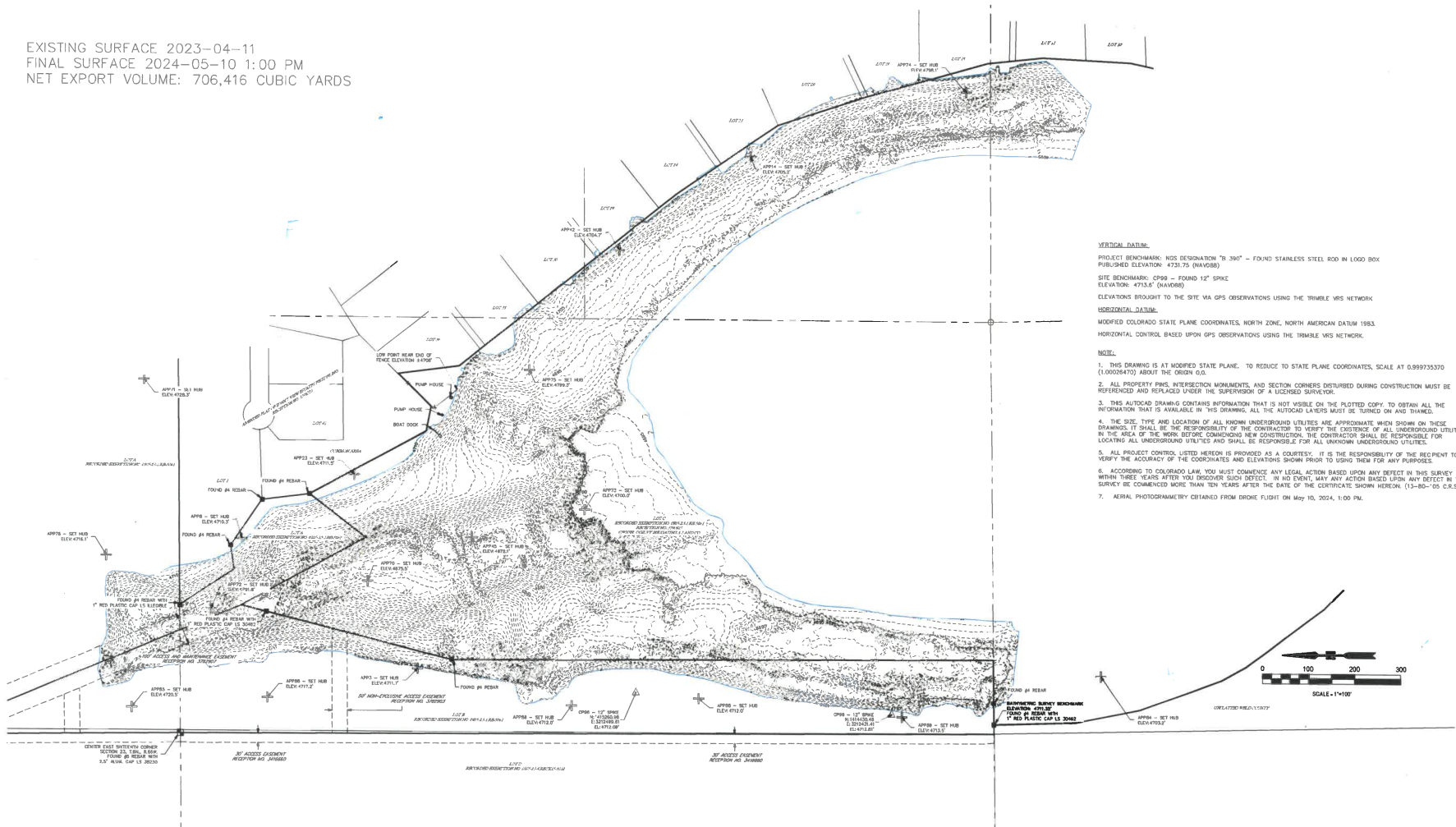
Cc: Dan Brown
Scott Cockroft

Final Site Survey

TOPOGRAPHIC SURVEY NET EXPORT

Part of the SE1/4 of Section 23, SW1/4 of Section 24, NW1/4 of Section 25, and NE1/4 of Section 26,
Township 6 North, Range 66 West of the 6th P.M., County of Weld, State of Colorado

EXISTING SURFACE 2023-04-11
FINAL SURFACE 2024-05-10 1:00 PM
NET EXPORT VOLUME: 706,416 CUBIC YARDS



VERTICAL DATUM:

PROJECT BENCHMARK: NGS DESIGNATION "B 390" - FOUND STAINLESS STEEL ROD IN LOG BOX

PUBLISHED ELEVATION: 4731.75 (NAVD83)

SITE BENCHMARK: CP98 - FOUND 12" SPIKE

ELEVATION: 4713.6' (NAVD83)

ELEVATIONS BROUGHT TO THE SITE VIA GPS OBSERVATIONS USING THE TRIMBLE VMS NETWORK

HORIZONTAL DATUM:

MODIFIED COLORADO STATE PLANE COORDINATES, NORTH ZONE, NORTH AMERICAN DATUM 1983.

HORIZONTAL CONTROL BASED UPON GPS OBSERVATIONS USING THE TRIMBLE VMS NETWORK.

NOTES:

1. THIS DRAWING IS AT MODIFIED STATE PLANE. TO REDUCE TO STATE PLANE COORDINATES, SCALE AT 0.999735370 (1.00026470) ABOUT THE ORIGIN 0,0.
2. ALL PROPERTY FINE INTERSECTION MONUMENTS, AND SECTION CORNERS DETURBED DURING CONSTRUCTION MUST BE REFERENCED AND REPLACED UNDER THE SUPERVISION OF A LICENSED SURVEYOR.
3. THIS AUTOCAD DRAWING CONTAINS INFORMATION THAT IS NOT VISIBLE ON THE PLOTTED COPY. TO OBTAIN ALL THE INFORMATION THAT IS AVAILABLE IN THIS DRAWING, ALL THE AUTOCAD LAYERS MUST BE TUNED ON AND THAWED.
4. THE SIZE, TYPE, AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK BEFORE COMMENCING NEW CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
5. ALL PROJECT CONTROL LISTED HEREON IS PROVIDED AS A COURTESY. IT IS THE RESPONSIBILITY OF THE RECIPIENT TO VERIFY THE ACCURACY OF THE COORDINATES AND ELEVATIONS SHOWN PRIOR TO USING THEM FOR ANY PURPOSES.
6. ACCORDING TO COLORADO LAW, YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU DISCOVER SUCH DEFECT. IN NO EVENT, MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS AFTER THE DATE OF THE CERTIFICATE SHOWN HEREON (13-60-05 C.R.S.).
7. AERIAL PHOTOGRAPHY OBTAINED FROM DROHE FLIGHT ON May 10, 2024, 1:00 PM.

LEGEND

	VOLUME COMPARISON BOUNDARY
	EXISTING CONTOUR
	EXISTING CONTOUR INDEX
	CONTROL POINT
	AERIAL CONTROL PANEL POINT (APP)



Kyle E. Ruiz-On Behalf of LAT40°, Inc.
Colorado Licensed Professional
Land Surveyor No. 38307



LAT40°, Inc.
Professional Land Surveyors
6250 W. 10th Street, Unit 2
Greeley, CO 80634
O: 970-515-5294

REVISIONS	
DESCRIPTION:	DATE:

TOPOGRAPHIC SURVEY

SEELEY LAKE (2024-05-20)

SECTION 23 & 24, T.6N., R.66W.

NOCO ENGINEERING

8209 W. 20TH ST, STE A, GREELEY CO

DRAWN BY: SS	SCALE: AS NOTED	DATE: 05-16-2024
CHECKED BY: KR	PROJECT #: 2023004	SHEET: 5 OF 5

Photos



Pump setup for dewatering – 12/13/23



Water bypass channel – 12/13/23



Delivery of timber construction mats – 12/13/23



Sediment removal operations – 1/10/24



Sediment hauling operations to PDC Site – 1/10/24



Sediment stockpile at PDC Site – 1/10/24



Sediment removal work – 2/23/24



Sediment removal work - 2/23/24



Sediment removal work – 2/23/24



Final grading at SW area of site – 7/25/24



Final grading at PDC site - 7/25/24



Final grading at NW area of site – 7/25/24



Sediment Basin – 4/15/24



Sediment Basin - 7/25/24



Sediment Basin Flume – 6/28/24