

**RECLAMATION DISTRICT NO. 1601  
TWITCHELL ISLAND  
BOARD OF TRUSTEES MEETING  
TUESDAY, NOVEMBER 16, 2021  
9:00 AM  
ENGINEER'S REPORT**

**I. PLAN REVIEW – UNITED STATES GEOLOGICAL SURVEY (USGS)  
DRAINAGE MONITORING**

- A. Review status of USGS's proposal to install monitoring equipment on the Districts terminal drainage Pump Station.

**II. DISTRICTS DRAINAGE PUMP STATIONS**

- A. Review proposal to rehabilitate Pump No 2.

*EXHIBIT A: Email correspondence from KSN Inc. and Moorman Water System's proposal dated Thursday October 28, 2021.*

- B. Review rehabilitation of trash rack. Review difficulty in cleaning canal sump between trash racks.

*EXHIBIT B: Photos from KSN Daily Field Reports*

**III. CALIFORNIA RESOURCES CORPORATION (CRC) CARBON CAPTURE  
AND STORAGE PROJECT.**

- A. Review information related to CRC's Carbon Capture and Storage Project. Review outcome of conversation with Deb (Cosper) Hill, agent for CRC related to the project details

*EXHIBIT C: Email correspondence from Deb (Cosper) Hill with CRC. and information on Carbon Capture and Storage Project.*

# **EXHIBIT A**

## Christopher H. Neudeck

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**From:** Christopher H. Neudeck  
**Sent:** Thursday, October 28, 2021 4:43 PM  
**To:** Rick Carter  
**Cc:** Barry Sgarrella; Jesse Barton; Jack D. Wilbur  
**Subject:** RD 1601 - Twitchell Island Proposals for Rehab of Pump No 2  
**Attachments:** scan13.pdf

**Importance:** High

Rick,

Please find attached costs to date and proposals for moving forward with Pump No. 2 from Moorman's. Greg Moorman has assembled his costs to pull and bring the pump to the shop and disassemble for inspection on the 1<sup>st</sup> page then he sets forth several options to consider on pages 2 & 3. With the 1<sup>st</sup> option Greg recommends heating up the rotor to see if that is creating an issue with the rotation of the pump and determine whether that is associated with the reduction in the flow rate and then test and advise. If this test is OK then dip and bake windings and balance rotor and re assemble. If this option 1 is not OK then you have two additional options and the 1st is to buy a new GE motor to replace the old less efficient motor or 2 replace the whole pump system motor, column and pump. My suggestion is to at least try the 1<sup>st</sup> option to heat up the rotor and see whether there are any irregularities and then proceed. Greg and I spoke about how typically older motors, despite their inefficiencies, are typically the work horses, but Twitchell's pump is very old and may have mechanical malfunctions. Regardless please review this proposal and let's discuss and if necessary, refine for our next Board of Trustees meeting.

# Invoice



2120 WILCOX RD.  
 STOCKTON, CA 95215  
**Phone: 931-3210**  
 Fax: (209) 931-1243  
 CONTRACTORS LIC. # 468816

WELL DRILLING  
 PUMP SALES • SERVICE • INSTALLATION  
 SPRINKLER SYSTEMS  
 WATER TREATMENT EQUIPMENT  
 moormanswater@sbcglobal.net

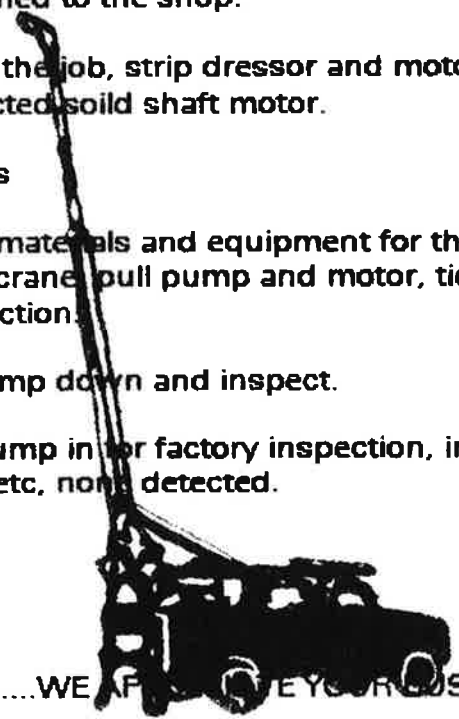
Rec Dist 1601  
 C/O Jack Wilbur  
 711 N Pershing Ave  
 Stockton, CA 95203

209-481-8571  
 Job Address: 1601 Twitchell Island Road

▶ PLEASE PAY FROM THIS INVOICE AND NOTE JOB NUMBER ON YOUR CHECK. ◀

INVOICE DATE	CUSTOMER'S ORDER NUMBER	JOB NUMBER	
10/28/2021	Jack	16056	

Quantity	Size	Description	Price
		<b>NO MATERIALS REQUIRED</b>	
		LABOR: Loaded materials and equipment for the job, drove to the job, check drain pump and motor, ran system, checked syphone breaker, gaskets, voltage, flow meters, suggest doing a pump test and wanted to be there during test, rechecked the system and returned to the shop.	660.00
		LABOR: Drove to the job, strip dressor and motor down, ready to pull, disconnected soild shaft motor.	830.00
		50 Ton crane fees	1100.00
		LABOR: Loaded materials and equipment for the job, drove to the job, setup crane, pull pump and motor, tie down and bring in for inspection.	1400.00
		LABOR: Strip pump down and inspect.	525.00
		LABOR: Bring pump in for factory inspection, impellor for possible defects etc, none detected.	375.00



THANK YOU.....WE APPRECIATE YOUR BUSINESS!!!!

Non Prevailing Labor	4890.00
TERMS: Net 20 days from date of invoice.	
<b>Total</b>	<b>\$4,890.00</b>

**A FINANCE CHARGE OF 1-1/2% PER MONTH WILL BE CHARGED ON ALL PAST DUE ACCOUNTS, WHICH IS AN ANNUAL PERCENTAGE RATE OF 18%.**

# Proposal



2120 WILCOX RD.  
 STOCKTON, CA 95215  
**Phone: 931-3210**  
 Fax: (209) 931-1243  
 CONTRACTORS LIC. # 468816

WELL DRILLING  
 PUMP SALES • SERVICE • INSTALLATION  
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 moormanswater@sbcglobal.net

Rec District 1601  
 C/O Jack Wilbur  
 711 N Pershing Ave  
 Stockton, CA 95203

10/28/2021

209-481-8571

Job Location: 1601 Twitchell Island Road

### REPAIR OPTIONS

- |   |   |                   |
|---|---|-------------------|
| 1 | A) - Disassemble motor, inspect, heat rotor up and test, advise with results  | \$1,650.00        |
| 1 | B) If test good, Rec Dist wants dip and bake winding, balance rotor, assemble, test, paint, minor materials   | \$2,130.00        |
|   | 2 - bearings unknown cost till disassembly, old motor machine work etc maybe required not included still old inefficient motor with easy rat access | \$6,000.00        |
|   | <b>Possible total</b>   | <b>\$9,780.00</b> |

OR

- |   |  |             |
|---|--|-------------|
| 2 | New GE 125 HP hollow shaft motor 900 RPM, 460 volt 3 phase<br>1 - Motor adapter plate, (old motor to new motor fit)<br>1 - New head shaft with nut and key way                           |             |
|   | Lump sum price with materials, sales tax, labor, machine work and freight.....   | \$20,880.00 |
| 3 | Check shafts and bearings for straightness and prep assembly, reassemble pump, installation with prevailing wage labor, suction screen adaptations, load up, mobilize, 5 hours crane fee | \$8,100.00  |

No repairs to column, old motor, **no warranties**

Options may 'not' be possible

Work to date Not Included.

*We Propose* hereby to furnish material and labor -- complete in accordance with above specifications, for the sum of: As above

**Net 20 days from the date of the invoice.**  
**Subject to credit approval.**

**A FINANCE CHARGE OF 1-1/2% PER MONTH WILL BE CHARGED ON ALL PAST DUE ACCOUNTS, WHICH IS AN ANNUAL PERCENTAGE RATE OF 18%.**

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra cost will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workmen's Compensation Insurance.

Authorized Signature   
 Note: This proposal may be withdrawn by us if not accepted within **30** days.

**Acceptance of Proposal** The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above. Collection cost for unpaid balance to be the customers responsibility. Equipment rights and access retained until paid in full.

SEE REVERSE SIDE FOR ADDITIONAL TERMS & CONDITIONS

Date of Acceptance \_\_\_\_\_

Signature \_\_\_\_\_

Signature \_\_\_\_\_

# Proposal



2120 WILCOX RD.  
STOCKTON, CA 95215  
Phone: 931-3210  
Fax: (209) 931-1243  
CONTRACTORS LIC. # 468816

WELL DRILLING  
PUMP SALES • SERVICE • INSTALLATION  
SPRINKLER SYSTEMS  
WATER TREATMENT EQUIPMENT  
moormanswater@sbcglobal.net

Rec District 1601 - Twitchell Island  
C/O Jack Wilbur  
711 N Pershing Ave  
Stockton, CA 95203

Island  
10/28/2021

209-481-8571

Job Location: 1601 Twitchell Island Road

- 1 Disassemble old motor and test (only)
- 1 125 HP GE motor Hollow shaft motor, 460 volt, 3 phase
- 1 24' Column assembly with new oil tube and shaft, sand blasted and epoxy coated
- 1 Head shaft, nut, oiler
- 1 Stainless steel suction bell liner
- 1 Suction screen adaptations, clean up and prep
- 1 Splice kit
- 1 Electrical adaptations

Lump sum price with materials, sales tax, labor to install above materials, crane fees, freight and prevailing wage..... **\$73,930.00**

Work to date Not Included.

*We Propose* hereby to furnish material and labor -- complete in accordance with above specifications, for the sum of: As above

**Net 20 days from the date of the invoice.  
Subject to credit approval.**

**A FINANCE CHARGE OF 1-1/2% PER MONTH WILL BE CHARGED ON ALL PAST DUE ACCOUNTS, WHICH IS AN ANNUAL PERCENTAGE RATE OF 18%.**

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra cost will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workmen's Compensation Insurance.

Authorized Signature \_\_\_\_\_

Note: This proposal may be withdrawn by us if not accepted within **30** days.

**Acceptance of Proposal** The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above. Collection cost for unpaid balance to be the customers responsibility. Equipment rights and access retained until paid in full.

SEE REVERSE SIDE FOR ADDITIONAL TERMS & CONDITIONS

Signature \_\_\_\_\_

Date of Acceptance \_\_\_\_\_

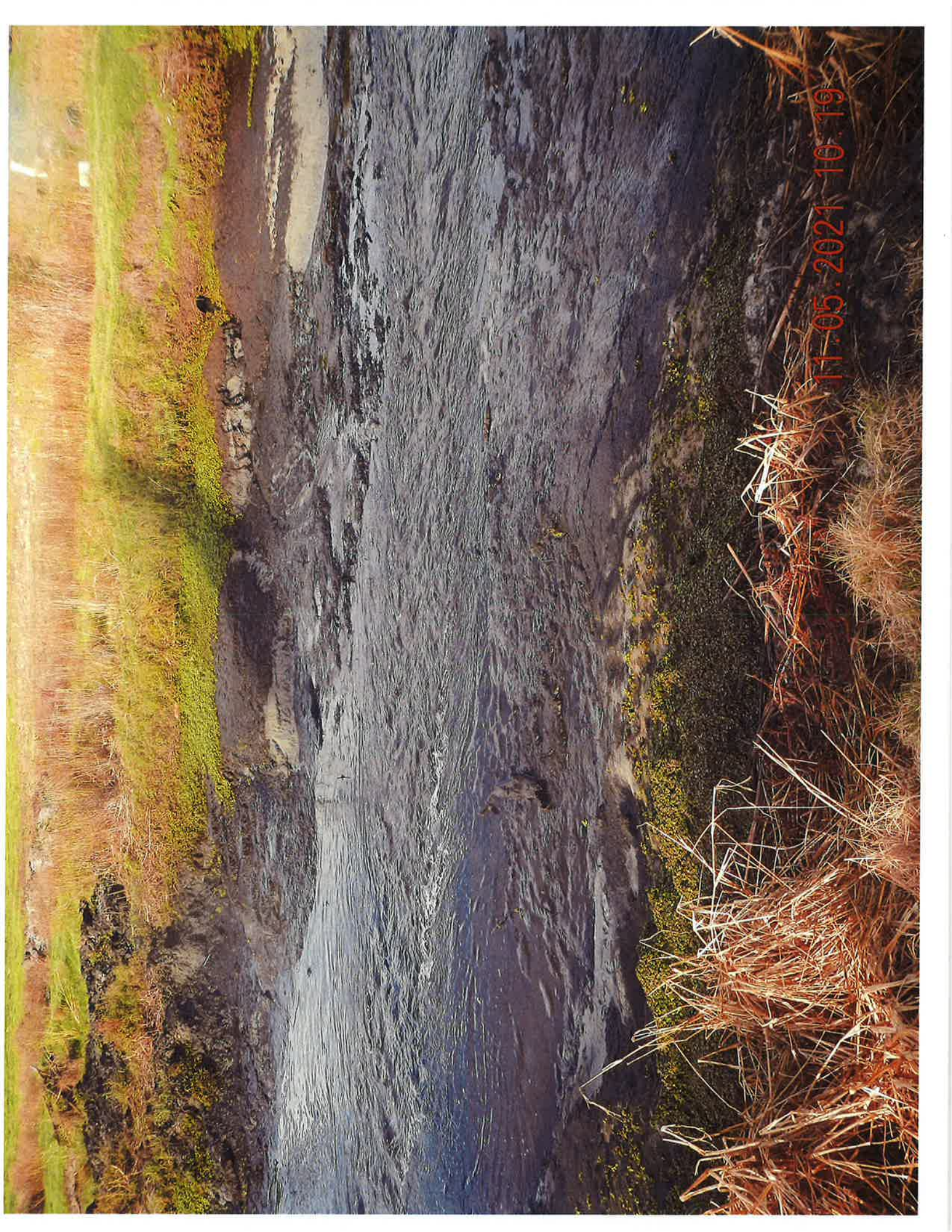
Signature \_\_\_\_\_

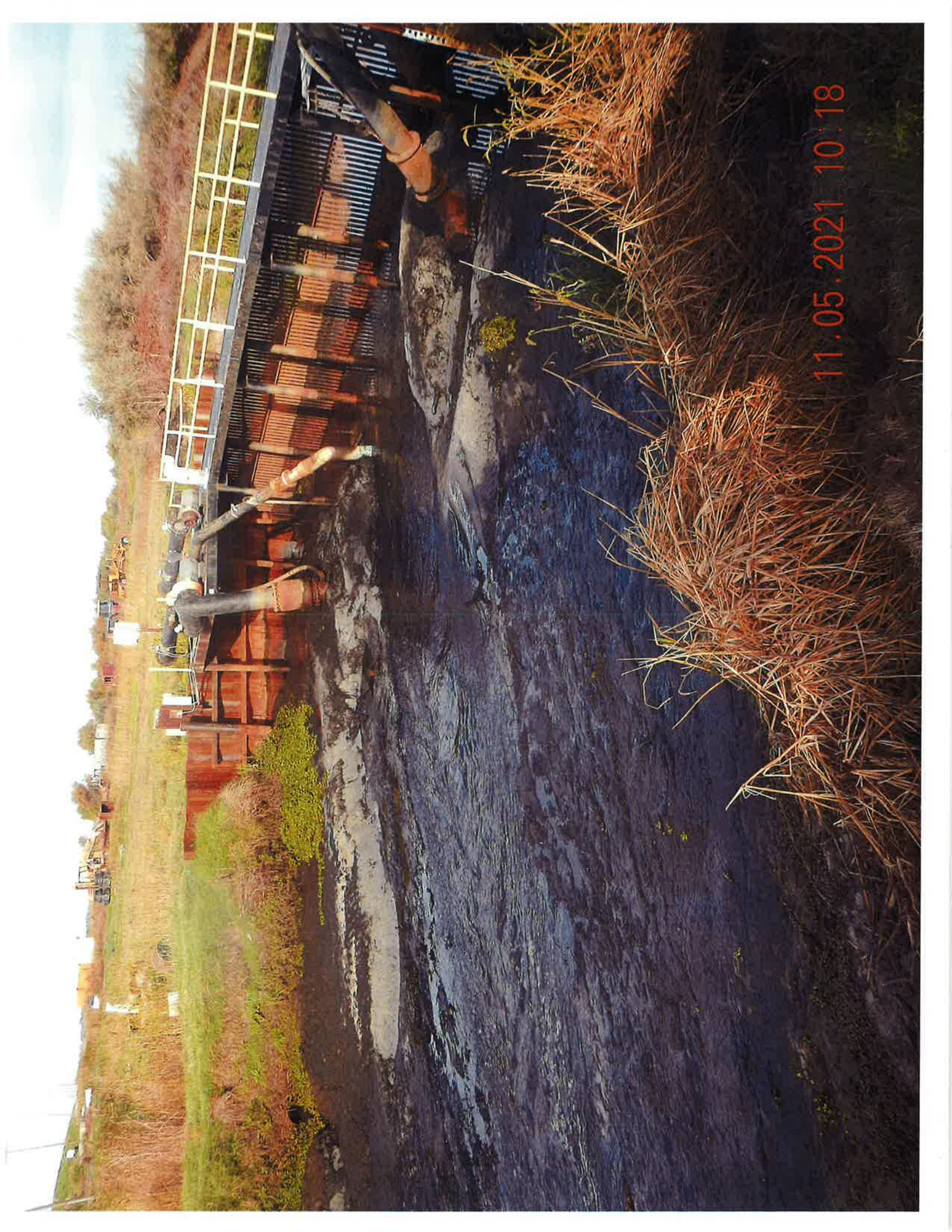
# EXHIBIT B



11.05.2021 10:22







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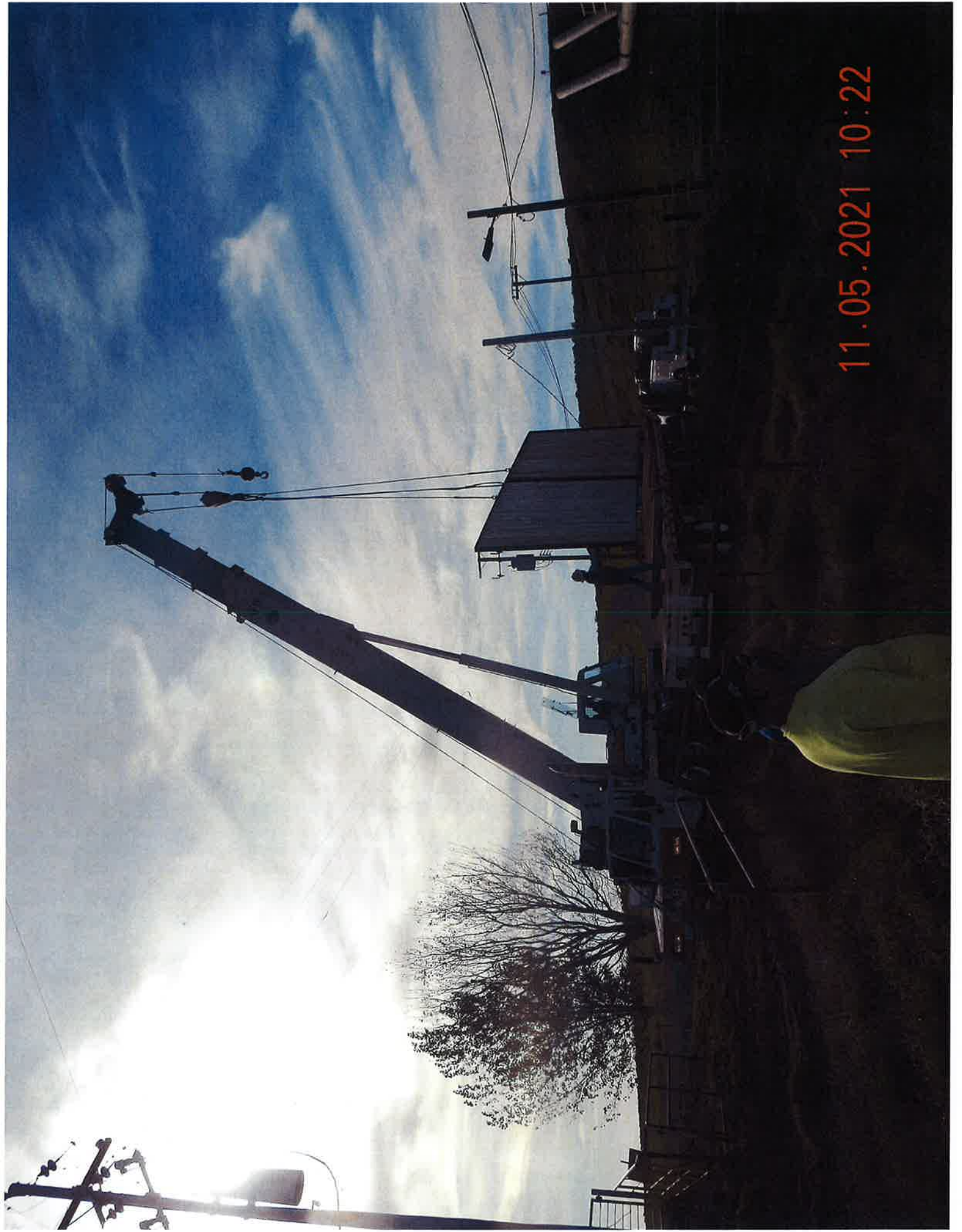


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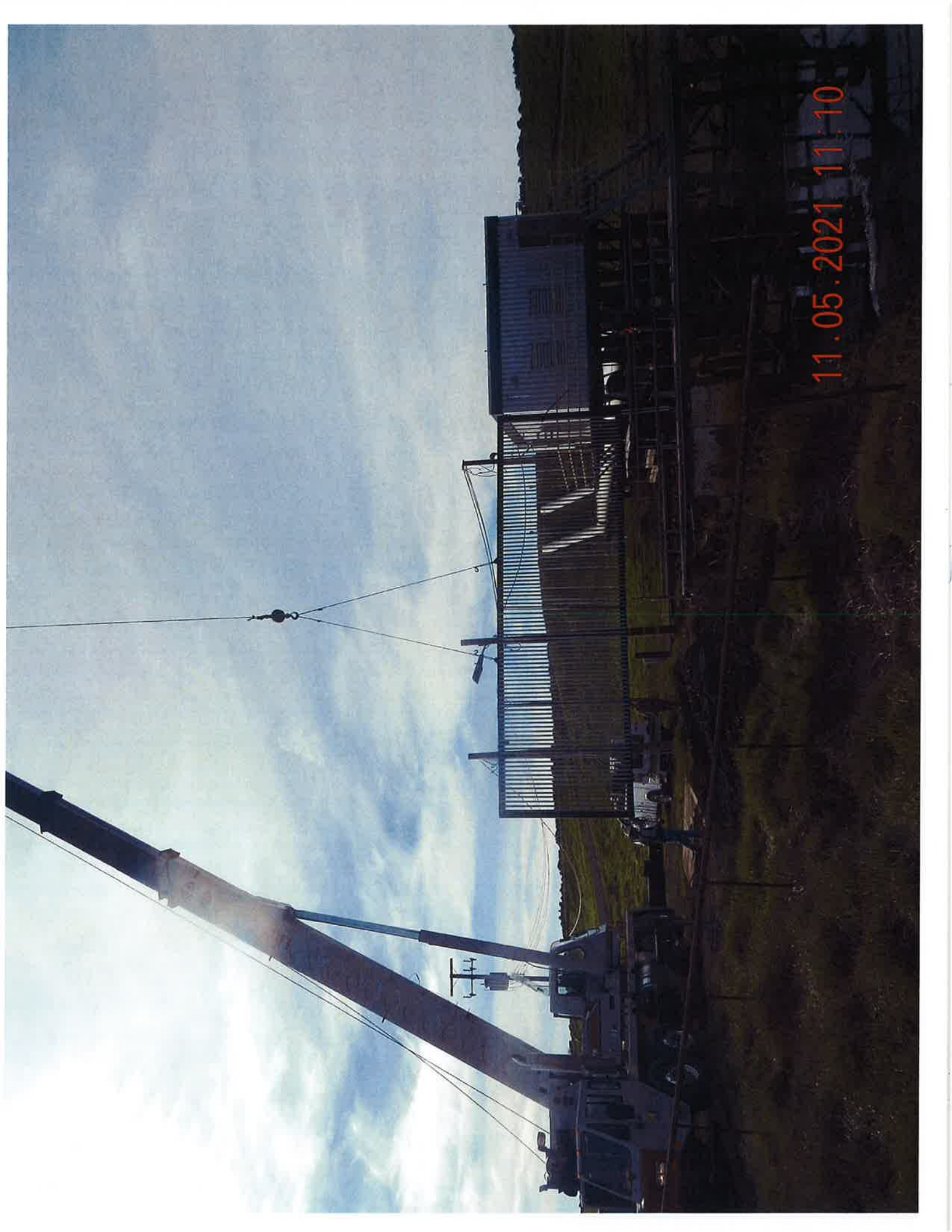


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11.05.2021 11:10







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11.05.2021 11:19



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11.05.2021 11:40



11.05.2021 11:13



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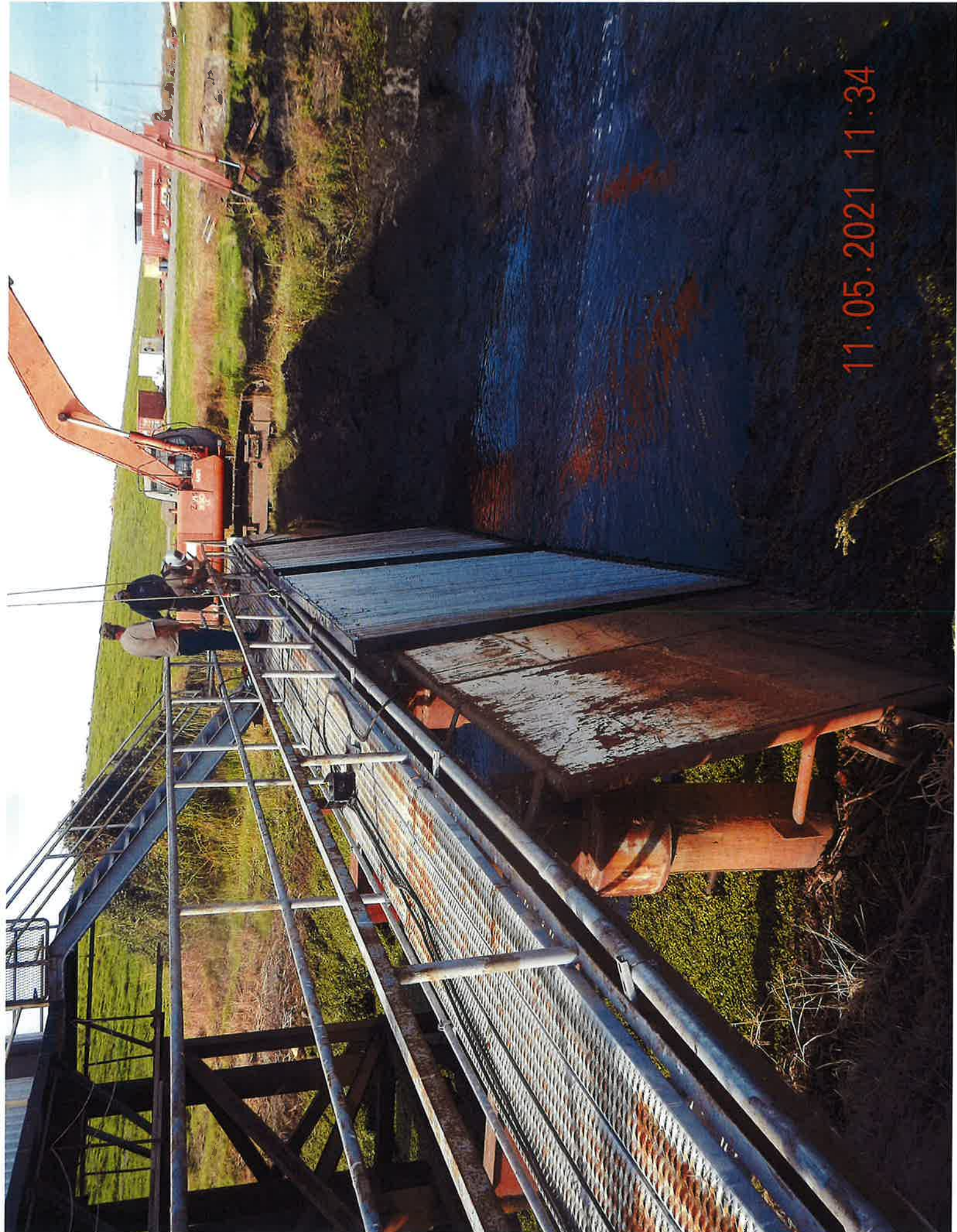




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11.05.2021 11:34



11.05.2021 11:39



11.05.2021 11:49

# EXHIBIT C

## Christopher H. Neudeck

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**From:** Deb Hill <debcosper@gmail.com>  
**Sent:** Tuesday, November 9, 2021 1:16 PM  
**To:** Christopher H. Neudeck  
**Subject:** California Resources Corporation (CRC) - Carbon, Capture and Storage Project  
**Attachments:** Reclamation District 1601\_CCS Owner Contact Letter and brochure\_11-8-2021\_2nd attempt.pdf

**CAUTION:** This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good Afternoon Mr. Neudeck,

RE: Reclamation District 1601 - See attached

I spoke with Rick Carter last week who gave me your contact information. I am forwarding to you some information concerning the above (Carbon, Capture and Storage Project). I mailed a letter and brochure in October and it was returned as undeliverable. Hence I am attaching a brief, general information packet for your review. Once you have had a moment to review, please give me a call or I can check back with you next week.

Again, thanks for your time and I look forward to speaking with you.

Deb (Casper) Hill  
Agent for  
California Resources Corporation  
[debcosper@gmail.com](mailto:debcosper@gmail.com)  
(337) 349-0224

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California Resources Production Corporation  
Attn: Land Department  
900 Old River Rd.  
Bakersfield, California 93311

November 8, 2021

Reclamation District 1601  
ATTN: Mr. Chris Neudeck  
2360 Twitchell Island Road  
Isleton, CA 95641  
Email: [cneudeck@ksninc.com](mailto:cneudeck@ksninc.com)

Subject: Surface Easement Agreement – Rio Vista Project  
APN 157-0130-026-0000 (“**Property**”)  
APN 157-0130-027-0000  
539.50 acres, more or less  
Contra Costa County, CA

Dear Mr. Neudeck:

Based on present records in Contra Costa County, CA, California Resources Production Corporation (“**CRPC**”), a subsidiary of California Resources Corporation, believes you are present owner of a portion/all of the Property which is included in a possible carbon capture and sequestration (“**CCS**”) project in and around the Rio Vista Gas Field (“**Project**”) where CRPC is the current operator. CRPC is scoping and planning various aspects associated with the Project and would appreciate an opportunity to speak with you.

Enclosed you will find a general CCS brochure which is intended to be broadly educational and a helpful information resource for real property owners and various stakeholders of the Project.

Upon your receipt of this letter and reviewing the brochure, please contact me by phone or email listed in the signature below. Thank you for your time and consideration, and we look forward to developing a relationship with you and further discussing the Project for our mutual benefit.

Sincerely,

*Deb Hill*

Deb Hill  
Agent for  
California Resources Production Corporation  
P: (337) 349-0224  
E: [debcosper@gmail.com](mailto:debcosper@gmail.com)

# CARBON CAPTURE & STORAGE

It's good for the environment  
It's good for Californians

California is a leader in addressing climate change. With some of the strongest decarbonization goals in the country—40% emission reductions by 2030, carbon neutrality by 2045, and net-negative emissions thereafter—the state is committed to pursuing innovative technology solutions to achieve its emission reductions and mitigate climate change. One technology, **carbon capture and storage (CCS)**, is a real solution for removing carbon dioxide (CO<sub>2</sub>) from the air and helping California meet the emissions reduction goals under the Paris Climate Accord.

## What is CCS?

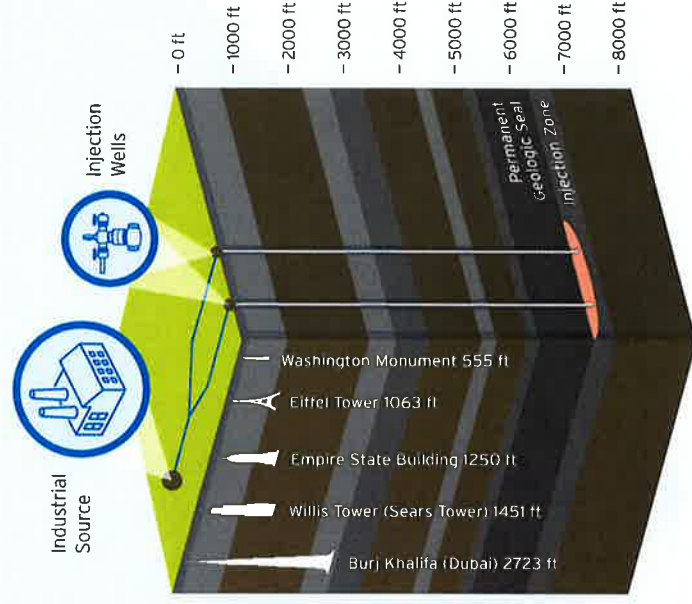
CCS is the proven process of safely removing CO<sub>2</sub> from industrial processes and transporting and permanently storing it underground. CCS is recognized as a key technology in reducing greenhouse gas emissions around the world by many national and global organizations such as the U.S. Government Accountability Office, the International Energy Agency (IEA), and the Intergovernmental Panel on Climate Change (IPCC). CCS is one of the best positioned technologies to mitigate climate change by offering both immediate decarbonization benefits and a long-term solution to reach and maintain carbon neutrality.

CCS involves three major steps: **capturing CO<sub>2</sub> at the source, compressing it for transportation and injecting it deep into a rock formation** where it is safely and permanently stored and monitored.

**Capture:** Multiple technologies have been developed to separate CO<sub>2</sub> from industrial flue gases and other gases produced at facilities such as power plants, refineries, and processing plants. These facilities are commonly retrofitted to existing emissions-generating plants, capturing up to 95% of the targeted CO<sub>2</sub>.

**Transportation:** After CO<sub>2</sub> is captured and compressed into liquid form, it is transported for permanent underground injection. Transportation is commonly done by truck or pipeline. In some cases, existing oil and gas pipelines and existing pipeline corridors can be used to minimize surface disturbance and impact. CO<sub>2</sub> transport is a safe and well-established process using proven technology. More than 50 pipelines stretch 4,000 miles across the US, transporting more than 60 million tons of CO<sub>2</sub> annually.

**Storage:** CO<sub>2</sub> is injected into deep underground rock formations at depths of more than a mile. These storage-capable formations include depleted oil and gas reservoirs as well as deep saline aquifers, and generally feature permeable zones capped by thick regional shale zones to permanently store the injected CO<sub>2</sub>. Permanent storage is assured via long-term measurement and monitoring with oversight by local, state and federal regulatory agencies.



## What are the benefits of CCS?

CCS provides significant immediate and permanent CO<sub>2</sub> emissions reductions while sustaining the production and economic benefits of existing facilities and infrastructure. It is also necessary to meet the state's carbon neutrality goal and its role as a signatory of the Paris Climate Accord.



The IEA calls CCS "one of the only technology solutions that can significantly reduce emissions from...power generation and deliver the deep emissions reductions needed across key industrial processes... all of which will remain vital building blocks of modern society." The agency also estimates that CCS could be responsible for removing as much as 20% of total CO<sub>2</sub> emissions from industrial and energy production facilities.

## Is CCS safe?

According to the Global CCS Institute, CCS is "a proven technology that has been in safe operation for over 45 years." All components of CCS are proven technologies that have been used for decades on a commercial scale. Monitoring, verification, accounting, and assessment make storage of CO<sub>2</sub> safe, effective, and permanent in various types of geologic formations.

The U.S. Environmental Protection Agency (EPA) is responsible for establishing and enforcing regulations associated with injecting and storing CO<sub>2</sub> underground. In 2010, the EPA established a new class of well, Class VI, to accommodate and validate the safe implementation of CCS technology.

Complementing the industry-wide oversight provided by federal and regional agencies, California Resources Corporation (CRC) has a proven track record of utilizing prevailing design, construction, and maintenance practices while safely operating in 100+ oil and gas fields with 8,000+ miles of piping infrastructure throughout California.

## How many years do CCS projects remain operational?

The typical CCS life cycle is estimated to be 20-30 years of active capture and injection followed by 50+ years of sustained measurement, monitoring, and verification of the permanently stored CO<sub>2</sub> volumes.

## Why is CRC contacting me?

CRC is an oil and natural gas exploration and production company committed to environmentally sustainable and responsible development of our properties. CRC explores for, produces, gathers, processes and markets crude oil, natural gas and natural gas liquids, while also pursuing emissions-reducing projects. CRC is 1) seeking to re-purpose depleted oil and gas reservoirs with existing infrastructure and operations to convert into CCS projects, and 2) exploring for other reservoirs and saline aquifers which can be utilized for CCS projects. **CRC and its representatives will meet with property owners** to explain the CCS storage process and discuss agreements that CRC would like to acquire to secure the rights necessary for CCS projects.

For more information about the permanence and safety of CCS, visit the U.S. Department of Energy's National Energy Technology Laboratory page at <https://netl.doe.gov/coal/carbon-storage/fags/permanence-safety>.

