

5 PRE-OPERATIONAL TESTING PROGRAM

40 CFR 146.87

TULARE COUNTY CARBON STORAGE PROJECT (TCCSP)

Facility Information

Facility (site) Name: Tulare County Carbon Storage Project (TCCSP)

Facility Operator: TCCSP, LLC.

Facility Contact:



Project Location:



Injection Well Name and Coordinates:

Well Name	Latitude	Longitude
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

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List of Acronyms/Abbreviations

3D	Three Dimensional
Al	Aluminum
AOR	Area of Review
APHA	American Public Health Association
Ar	Argon
ASTM	American Society for Testing and Materials
Ba	Barium
Br	Bromine
Ca	Calcium
CBL	Cement Bond Log
Cd	Cadmium
Cl	Chlorine
Co	Cobalt
CO ₂	Carbon Dioxide

Cr	Chromium
Cu	Copper
DIC	Dissolved Inorganic Carbon
DTS	Distributed Temperature Sensing
EPA	Environmental Protection Agency
F	Fluorine
Fe	Iron
ft	Feet
He	Helium
I	Iodine
ICP-AES	Inductively Coupled Plasma – Atomic Emission Spectrometry
ICP-MS	Inductively Coupled Plasma – Mass Spectrometry
ICP-OES	Inductively Coupled Plasma – Optical Emission Spectrometry
INJ	Injection (referring to injection well)
INJ	Injection (referring to well type)
IZ	In-Zone (referring to monitoring well type)
IZ	In-Zone (referring to monitoring well type)
K	Potassium
Kr	Krypton
Li	Lithium
MD	Measured Depth
MDT	Modular Formation Dynamics Tester
Mg	Magnesium
Mn	Manganese
Mo	Molybdenum
Na	Sodium
Ne	Neon
Ni	Nickel
NO2	Nitrite
NO3	Nitrate
OBS	Observation (referring to above-zone monitoring well type)
OBS	Observation (referring to “Above-Zone” monitoring well type)
P	Phosphorus
P*	Average Pressure
Pb	Lead
PO4	Phosphate
QASP	Quality Assurance and Surveillance Plan
RDT	Reservoir Description Tool
SGW	Shallow Ground Water (referring to monitoring well type)
Rn	Radon
S2-	Sulfide

Si	Silicon
SM	Standard Method
SO4	Sulfate
Sr	Strontium
TCCSP	Tulare County Carbon Storage Project
U.S.	United States
UIC	Underground Injection Control
USDW	Underground Source of Drinking Water
UV	Ultraviolet
V	Vanadium
VSP	Vertical Seismic Profile
WFT	Wireline Formation Tester
Xe	Xenon
Zn	Zinc

5.1 Pre-Operational Testing Program Overview

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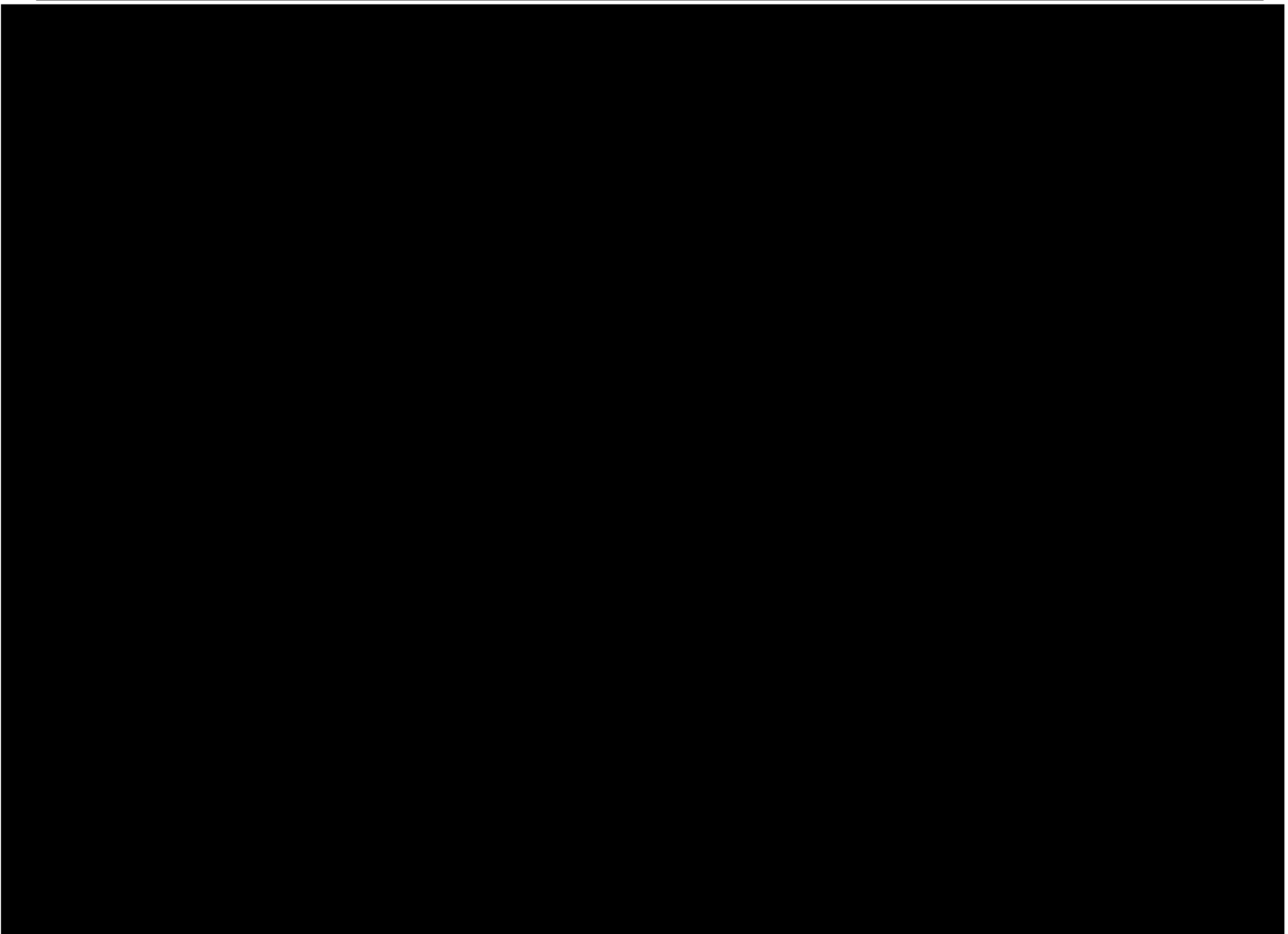
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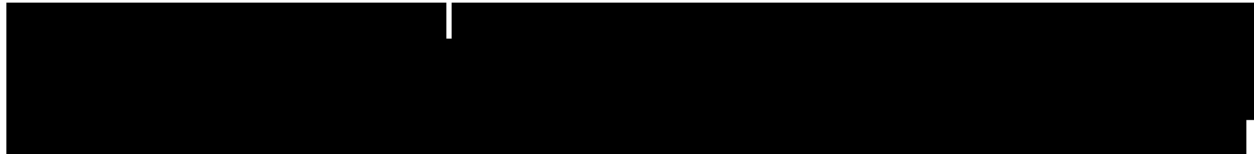
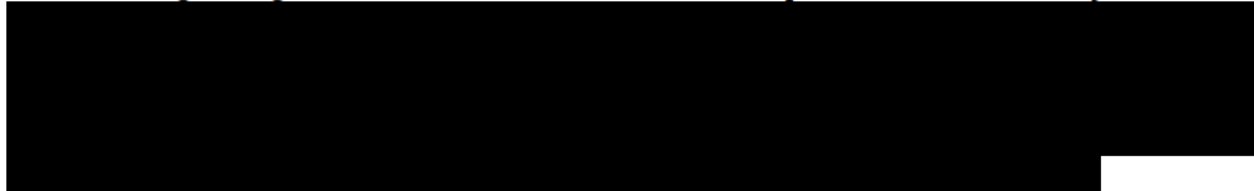
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5.2 Pre-Injection Logging, Sampling, and Testing

The following testing and characterization activities will be performed in TCCSP injection wells



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■ [REDACTED]

■ [REDACTED]

■ [REDACTED]

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5.2.3 Cased-Hole Well Logging Program

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5.2.4 Mechanical Integrity Testing Program

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5.2.4.2 External Mechanical Integrity

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5.2.5 Coring Program

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5.2.8 Hydrogeologic Testing Program

Upon injection well completion and prior to operation, pressure fall-off testing followed by step

[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

5.3 Testing and Monitoring Baseline Data

[REDACTED]

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5.3.1 CO₂ Stream Analysis

[REDACTED]

5.3.2 Mechanical Integrity Testing

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

5.3.4 *Hydrogeologic Testing*

[REDACTED]

5.3.5 *CO₂ Plume and Pressure Front Monitoring*

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[REDACTED]

[REDACTED]

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[REDACTED]

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