

Texas Commission on Environmental Quality



Registration for Industrial Solid Waste Management Facility Issued Under Provisions of Texas Health and Safety Code ANN. Chapter 361 and Chapter 5 of the Texas Water Code

CCR Registration No.: CCR113

Facility Operator: Gibbons Creek Environmental Redevelopment Group, LLC
12824 FM 244
Anderson, TX 77830

Facility Owner: Gibbons Creek Environmental Redevelopment Group, LLC
12824 FM 244
Anderson, TX 77830

Facility Name: Gibbons Creek Steam Electric Station
12824 FM 244
Anderson, TX 77830

Registered Agent for Service: C T Corporation System
1999 Bryan Street, Suite 900, Dallas, TX 75201

The registrant is authorized to operate a Coal Combustion Residuals (CCR) Unit(s) to dispose of and/or manage CCR generated from the combustion of coal at electric utilities and independent power producers in accordance with the limitations, requirements, and other conditions set forth herein. This registration is granted subject to the rules and Orders of the Commission and laws of the State of Texas. Nothing in this registration exempts the registrant from compliance with other applicable rules and regulations of the Texas Commission on Environmental Quality (TCEQ). This registration will be valid until canceled, amended, or revoked by the Commission.

Approved, Issued and Effective in accordance with Title 30 Texas Administrative Code (30 TAC) Chapter 352.

Issued Date: November 14, 2025

A handwritten signature in cursive script, appearing to read "K. Keel".

For the Commission

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I. Facility Description

A. Location of Facility

The Registration is issued to Gibbons Creek Environmental Redevelopment Group, LLC (hereafter called the registrant) to operate a CCR Unit(s) located at 12824 FM 244, in Anderson, Grimes County, Texas.

Coordinates:

Latitude: 30°37'05" N

Longitude: 96°04'56" W

Attachment A "Registration Boundary and CCR Unit Map" and supporting documents are contained in the registration application and are incorporated by reference in Section I.B. of this registration.

B. Incorporated Application Materials

This registration is based on, and the registrant shall follow the registration application submittals chronicled in Attachment B "Registration Application Revision Chronology" of this registration. These application materials are incorporated into this registration by reference as if fully set out herein. Any and all revisions to this registration shall become conditions of the registration upon the date of approval by the Commission.

II. Authorized CCR Waste Management.

A. Waste Management Unit(s)

The registrant is authorized to manage or dispose of CCR waste in registered unit(s) listed in Table I.6. - "CCR Units." Unit(s) shall include associated structures, appurtenances, or improvements as described in the registration application.

A Facility may consist of one or several CCR units as defined in Title 40 Code of Federal Regulations (CFR), Part 257, Section (§)257.53 and adopted in 30 TAC, Chapter 352, §352.3.

B. Changes, Additions, or Expansions

Any proposed CCR waste management unit change must be authorized in accordance with TCEQ rules in 30 TAC Chapter 352 (Coal Combustion Residuals Waste Management) and 30 TAC Chapter 305 (Consolidated Permits). Changes to an existing registration will be classified and processed as minor or major amendments in accordance with 30 TAC §352.131.

III. Design, Construction, and Operation

- A.** CCR waste management unit design, construction, and operation must comply with this registration, the regulations in 30 TAC Chapter 352, and the registration application and application revisions as incorporated by reference in Section I.B. of this registration.

- B.** CCR waste management unit shall be designed, constructed, operated, and maintained to prevent the release and migration of any waste, contaminant, or pollutant, and to prevent discharge to or inundation of the areas surrounding the unit.
- C.** As applicable, the registrant shall comply with groundwater monitoring and corrective action requirements in accordance with 40 CFR §257.91 through 40 CFR §257.98 and 30 TAC Chapter 352 Subchapter H.

IV. Financial Assurance

- A.** Authorization to operate the Facility is contingent upon compliance with provisions contained within this registration and maintenance of financial assurance in accordance with 30 TAC Chapter 352, Subchapter I and 30 TAC Chapter 37, Subchapters A - D.
- B.** Within 90 days after the executive director's approval of the registration, a financial assurance mechanism acceptable to the executive director must be established and submitted to the executive director in current dollars in an amount not less than \$3,524,682.07 (2022 dollars), to perform post-closure care maintenance pursuant to 30 TAC §352.1101 and 30 TAC §352.1241.
- C.** Whenever the current cost estimate increases to an amount greater than the amount being provided in the financial assurance mechanism(s), the owner and/or operator shall increase the dollar amount of the financial assurance within 60 days in accordance with 30 TAC §37.141. Continuous financial assurance coverage must be provided in accordance with 30 TAC Chapter 352, Subchapter I, until all requirements of the post-closure care have been completed, and the Facility is released from post-closure care obligations.
- D.** Financial assurance for post-closure care cost, including any adjustments after registration issuance, shall be corrected for inflation during the active life of the Facility according to the methods described by 30 TAC Sections §§37.131 and 37.141.

V. CCR Unit Closure, Retrofit and Post-Closure Care

Closure, retrofit and post-closure care of CCR unit are required to comply with the requirements of 40 CFR Part 257, Subpart D and 30 TAC Chapter 352, as applicable.

A. CCR Unit Closure Shall Commence

Applicable for units that have not initiated and completed closure:

1. Upon direction of the TCEQ for violations of this registration or violations terms or violation of State or Federal regulations;
2. Upon the issuance of an emergency order to the registrant in accordance with applicable requirements of 30 TAC 305 Subchapter B or 30 TAC §§305.21 and 305.29, and §§5.501 and 5.512 of the Texas Water Code;
3. Upon abandonment of the unit or Facility by the registrant; or
4. Upon registrant's notification to the TCEQ.

B. Completion Requirements:

CCR unit closure, retrofit and post-closure care activities shall be conducted and completed in accordance with the registration application submittals as incorporated by

reference in Section I.B. of this registration and the applicable State and Federal regulations in 40 CFR Part 257, Subpart D and 30 TAC Chapter 352.

For any changes to closure and post-closure plans, the registrant shall submit a written request for an amendment to authorize changes in accordance with 30 TAC §352.131. The written request shall include a copy of the amended closure and /or post-closure plan(s) for review and approval by the executive director prior to initiating closure and post-closure care activities.

VI. Standard Registration Conditions

- A. This registration is based on the initial registration application submittal and subsequent revisions, amendments, corrections, and changes dated as referenced in Section I.B. of this registration. These application submittals are hereby approved subject to the terms of this registration, any orders of the TCEQ, and are incorporated into this registration by reference as if fully set out herein. Any and all revisions to these elements shall become conditions of this registration upon the date of approval by the Commission. The registrant shall comply with the registration application submittals, maintain the Application and all supporting documentation at the Facility (operating record) and make them available for inspection by TCEQ personnel.
- B. Failure to comply with any registration condition may constitute a violation of the registration, the rules of the Commission, and the Texas Solid Waste Disposal Act and is grounds for an enforcement action, for registration amendment, revocation, or suspension.
- C. After construction of a new or laterally expanding CCR unit, and prior to accepting waste, the registrant is required to obtain and submit to the executive director a pre-opening certification by a qualified Texas-licensed Professional Engineer that the unit complies with the registration conditions. The registrant shall contact the executive director and region office in writing and request a pre-opening inspection pursuant to 30 TAC §352.851.

If the executive director has inspected the amended or newly constructed CCR unit and finds it is in compliance with the conditions of the registration; or if within fifteen (15) days of submission of the written request for a pre-opening inspection, the registrant has not received notice from the executive director of the intent to inspect, waiving prior inspection; then the registrant may commence operation or acceptance of waste.

- D. Entry onto the Facility by authorized TCEQ personnel for the purpose of CCR unit inspection shall be allowed.
- E. The provisions of this registration are severable. If any registration provision or the application of any registration provision to any circumstance is held invalid, the remainder of this registration shall not be affected.
- F. Regardless of the specific designs contained in the registration application or adopted by reference in Section I.B. of this registration, the registrant shall be required to meet all performance standards in the registration, the application, or as required by local, State, and Federal laws or ordinances.
- G. If differences arise between these registration provisions and the Application, these registration provisions shall prevail.
- H. A CCR registration may be issued for the unit's entire active life and post-closure care period but may be revoked or amended at any time if the owner or operator fails to meet the standards established in 30 TAC Chapter 352.

- I. As applicable, the registrant shall comply with recordkeeping, notification and posting of information to the internet pursuant 30 TAC Chapter 352 Subchapter K.

VII. Incorporated Regulatory Requirements

- A. The registrant shall comply with all applicable Federal, State, and local regulations and shall obtain any and all other required permits prior to the beginning of any Facility improvements or operations authorized by this registration.
- B. To the extent applicable to the activities authorized by this registration, the requirements of 30 TAC Chapters 37, 39, 111, 116, 305, and 352; 40 CFR Part 257, Subparts A and D; statutory obligations of the Texas Water Code are hereby made provisions and conditions of this registration.

VIII. Special Provisions

- A. The registrant shall continue to monitor and submit the data from the updated groundwater monitoring system.
 - 1. The Alternate Source Demonstration (ASD) plan is approved.
 - 2. The registrant shall conduct a minimum of eight (8) sampling events to establish new background values for parameters listed in Appendix III (30 TAC §352.941) and Appendix IV (30 TAC §352.951). Registrant shall submit a groundwater report that includes data, statistical evaluation of the data and conclusions to establish updated background values.
 - 3. Post-closure ends for Scrubber Sludge Pond and Ash Ponds A, B, and C when registrant submits and receives TCEQ approval on a groundwater report that, with appropriate data, statistical evaluation, and conclusions, demonstrates the sampling results are below the established background concentration limits.

Table I.6. – CCR Units

CCR Unit No. ¹	Unit Name	N.O.R. No. ¹	Unit Description ³	Capacity	Unit Status ²
001	Site F Landfill	001	Landfill	7,398,346 cy	Closed
004	Scrubber Sludge Pond	004	Surface Impoundment	190,000 cy	Closed
006	Ash Ponds A, B, and C	006	Surface Impoundment	720,000 cy	Closed

¹ Registered Unit No. and N.O.R. No. cannot be reassigned to new units or used more than once.

² Unit Status options: Active, Closed, Inactive (built but not managing waste), Proposed (not yet built), Never Built, Transferred, Post-Closure.

³ If a unit has been transferred, the applicant should indicate which facility/permit it has been transferred to in the Unit Description column.

Table I.6.A. – Wastes Management Information

Waste No. ¹	Waste Type	Source
1	Dewatered scrubber sludge	Wet Scrubber
2	Fly ash	Electro-static precipitator
3	Fly ash mixed with dewatered scrubber sludge	Air pollution control devices
4	Plant Production Refuse	Clean up and plant maintenance
5	Bottom ash	Ash residue in bottom of boiler
6	Class 2 and Class 3 Combustion Waste	Boiler
7	Nonhazardous sand blasting material	Generated from removing paint or rust
8	Scrubber sludge filtrate	Processing scrubber sludge

number of wastes

Table IV.A. – Landfills Characteristics

Registered Unit No.*	Landfill	N.O.R. No.	Waste Nos. ¹	Rated Capacity	Dimensions ²	Distance from lowest liner to groundwater	Action Leakage Rate (if required)	Unit manages CCR Waste and non-CCR Waste (state all that apply)
001	Site F Landfill	001	1, 2, 3, 4, 5, 6, 7, 8	7,398,346 cy	2,390' x 2,570' x 33'	8-feet	N/A	Dewatered scrubber sludge, fly ash, fly ash mixed with dewatered, plant production refuse, bottom ash, Class 2 and Class 3 combustion waste, nonhazardous sand blasting Material, scrubber sludge filtrate

¹ From Table I.6.A., first column

² Dimensions should be provided as average length, width and depth, also include the surface acreage for the unit.

* from Table I.6, first column

Table IV.B. – Landfill Liner System

Registered Unit No*	Landfill	Geomembrane Liner Material	Geomembrane Liner Permeability (cm/sec)	Geomembrane Liner Thickness	Soil Liner Material	Soil Liner Permeability (cm/sec)	Soil Liner Thickness
001	Site F Landfill	N/A	N/A	N/A	Clay	1×10^{-7} cm/sec	3-feet

* This number should match the Registered Unit No. given on Table IV.A.

Table V.A. – Surface Impoundment Characteristics

Registered Unit No.*	Surface Impoundment Name	N.O.R. No.	Waste Nos. ¹	Rated Capacity	Dimensions ²	Distance from lowest liner to groundwater	Action Leakage Rate (if required)	Unit manages CCR Waste and non-CCR Waste (state all that apply)
004	Scrubber Sludge Pond	004		190,000 cy	750' x 425' x 20'	8-feet	N/A	Unit has been closed and all CCR and non-CCR wastes were removed and disposed at the Site F Landfill
006	Ash Ponds A, B, and C	006		720,000 cy	1820' x 245' x 20' (each pond)	8-feet	N/A	Unit has been closed and all CCR and non-CCR wastes were removed and disposed at the Site F Landfill

¹ From Table I.6.A., first column

² Dimensions should be provided as average length, width, and depth, also include the surface acreage for the unit.

*from Table I.6 first column

Table V.B. – Surface Impoundments Liner System

Registered Unit No.*	Surface Impoundment Name	Geomembrane Liner Material	Geomembrane Liner Permeability (cm/sec)	Geomembrane Liner Thickness	Soil Liner Material	Soil Liner Permeability (cm/sec)	Soil Liner Thickness
004	Scrubber Sludge Pond	Hypalon	1×10^{-12} cm/sec	36-mil	N/A	N/A	N/A
006	Ash Ponds A, B, and C	N/A	N/A	N/A	Clay	Varies on-site	Varies on-site

* This number should match the Registered Unit No. given on Table V.A.

Table VI.A. – Groundwater Monitoring Network System(s)

Waste Management Unit/Area Name ¹	Site F Landfill					
Well Number(s):	SFL MW-1S(R)-Contingency	SFL MW-2	SFL MW-3	SFL MW-4S	SFL MW-5	SFL MW-6
Hydrogeologic Unit Monitored	Site F Landfill (Shallow)	Site F Landfill (Shallow)	Site F Landfill (Shallow)	Site F Landfill (Shallow)	Site F Landfill (Shallow)	Site F Landfill (Shallow)
Type (e.g., point of compliance, background, observation, etc.)	Background	Compliance	Compliance	Compliance	Compliance	Background
Up or Down Gradient	Up/Cross	Down	Down	Down	Down	Up
Casing Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Slot Size (in.)	0.01 in	0.01 in	0.01 in	0.01 in	0.01 in	0.01 in
Top of Casing Elevation (Ft, Mean Sea Level [MSL])	275.44	268.31	275.00	269.08	276.25	286.66
Grade or Surface Elevation (Ft, MSL)	272.2	265.69	271.65	265.9	273.33	283.49
Well Depth (Ft, Below Grade Surface [BGS])	27	50	25	30	25	20
Well Depth (Ft, Below Top of Casing [BTOC])	30.24	52.62	28.35	33.18	27.92	23.17
Screen Interval						
From (Ft, BGS)	16.7	15.99	19.45	10.70	16.03	14.49
To (Ft, BGS)	26.7	20.99	24.45	20.70	21.03	19.49
Screen Interval						
From (Ft, BTOC)	19.94	18.61	22.80	13.88	18.95	17.66
To (Ft, BTOC)	29.94	23.61	27.80	23.88	23.95	22.66

¹ From Tables in Section I; MSL: Mean Sea Level; BGS: Below Grade Surface; BTOC: Below Top of Casing

Table VI.A. – Groundwater Monitoring Network System(s)

Waste Management Unit/Area Name ¹	Site F Landfill					
Well Number(s):	SFL MW-7S	SFL MW-8S	MNW-15	MNW-17		
Hydrogeologic Unit Monitored	Site F Landfill (Shallow)	Site F Landfill (Shallow)	Site F Landfill (Shallow)	Site F Landfill (Shallow)		
Type (e.g., point of compliance, background, observation, etc.)	Compliance	Compliance	Compliance	Water Level Only		
Up or Down Gradient	Down	Down	Down	Up		
Casing Diameter and Material	2" PVC	2" PVC	2" PVC	4" PVC		
Screen Diameter and Material	2" PVC	2" PVC	2" PVC	4" PVC		
Screen Slot Size (in.)	0.01 in	0.01 in	0.01 in	0.01 in		
Top of Casing Elevation (Ft, Mean Sea Level [MSL])	264.47	266.38	257.33	293.72		
Grade or Surface Elevation (Ft, MSL)	261.4	263.1	257.54	293.86		
Well Depth (Ft, Below Grade Surface [BGS])	30	20	35	50		
Well Depth (Ft, Below Top of Casing [BTOC])	33.07	23.28	34.79	49.86		
Screen Interval From (Ft, BGS) To (Ft, BGS)	15.7 25.7	9.7 19.7	22.24 27.24	45.36 50.36		
Screen Interval From (Ft, BTOC) To (Ft, BTOC)	18.77 28.77	12.98 22.98	22.03 27.03	45.22 50.22		

¹ From Tables in Section I.; MSL: Mean Sea Level; BGS: Below Grade Surface; BTOC: Below Top of Casing

Table VI.A. – Groundwater Monitoring Network System(s)

Waste Management Unit/Area Name ¹	Site F Landfill					
Well Number(s):	SFL MW-2D	SFL MW-3D	SFL MW-4	SFL MW-5D	SFL MW-6D	SFL MW-7
Hydrogeologic Unit Monitored	Site F Landfill (Deep)	Site F Landfill (Deep)	Site F Landfill (Deep)	Site F Landfill (Deep)	Site F Landfill (Deep)	Site F Landfill (Deep)
Type (e.g., point of compliance, background, observation, etc.)	Compliance	Compliance	Compliance	Compliance	Compliance	Compliance
Up or Down Gradient	Down	Down	Down	Down	Down	Down
Casing Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Slot Size (in.)	0.01 in	0.01 in	0.01 in	0.01 in	0.01 in	0.01 in
Top of Casing Elevation (Ft, Mean Sea Level [MSL])	262.63	275.13	269.53	277.02	286.01	264.63
Grade or Surface Elevation (Ft, MSL)	259.4	271.9	266.46	273.7	283	264.83
Well Depth (Ft, Below Grade Surface [BGS])	55	60	40	64	80	55
Well Depth (Ft, Below Top of Casing [BTOC])	58.23	63.23	43.07	67.32	83.01	54.8
Screen Interval						
From (Ft, BGS)	43.7	48.7	34.46	52.7	60.7	50.03
To (Ft, BGS)	53.7	58.7	39.46	62.7	70.7	55.03
Screen Interval						
From (Ft, BTOC)	46.93	51.93	37.53	56.02	63.71	49.83
To (Ft, BTOC)	56.93	61.93	42.53	66.02	73.71	54.83

¹ From Tables in Section I.; MSL: Mean Sea Level; BGS: Below Grade Surface; BTOC: Below Top of Casing

Table VI.A. – Groundwater Monitoring Network System(s)

Waste Management Unit/Area Name ¹	Site F Landfill					
Well Number(s):	SFL MW-8D	MNW-11	MNW-15D	MNW-16	MNW-18	
Hydrogeologic Unit Monitored	Site F Landfill (Deep)	Site F Landfill (Deep)	Site F Landfill (Deep)	Site F Landfill (Deep)	Site F Landfill (Deep)	
Type (e.g., point of compliance, background, observation, etc.)	Compliance	Water Level Only	Compliance	Water Level Only	Background	
Up or Down Gradient	Down	Down	Down	Up	Up	
Casing Diameter and Material	2" PVC	2" PVC	2" PVC	4" PVC	4" PVC	
Screen Diameter and Material	2" PVC	2" PVC	2" PVC	4" PVC	4" PVC	
Screen Slot Size (in.)	0.01 in	0.01 in	0.01 in	0.01 in	0.01 in	
Top of Casing Elevation (Ft, Mean Sea Level [MSL])	266.24	267.95	258.52	263.19	270.76	
Grade or Surface Elevation (Ft, MSL)	263.1	268.12	255.3	263.33	270.91	
Well Depth (Ft, Below Grade Surface [BGS])	45	50	50	39	50	
Well Depth (Ft, Below Top of Casing [BTOC])	48.14	49.83	53.22	38.86	49.85	
Screen Interval						
From (Ft, BGS)	32.7	42.42	43.7	35.53	46.21	
To (Ft, BGS)	42.7	47.42	48.7	40.53	51.21	
Screen Interval						
From (Ft, BTOC)	35.84	42.25	46.92	35.39	46.06	
To (Ft, BTOC)	45.84	47.25	51.92	40.39	51.06	

¹ From Tables in Section I.; MSL: Mean Sea Level; BGS: Below Grade Surface; BTOC: Below Top of Casing

Table VI.A. – Groundwater Monitoring Network System(s)

Waste Management Unit/Area Name ¹	Scrubber Sludge Pond (SSP) & Ash Ponds (AP)					
Well Number(s):	AP MW-1	AP MW-2	AP MW-3	AP MW-4S	AP MW-5	AP MW-7S
Hydrogeologic Unit Monitored	SSP & AP (Shallow)	SSP & AP (Shallow)	SSP & AP (Shallow)	SSP & AP (Shallow)	SSP & AP (Shallow)	SSP & AP (Shallow)
Type (e.g., point of compliance, background, observation, etc.)	Compliance	Water Level Only	Compliance	Compliance	Compliance	Compliance
Up or Down Gradient	Down	Down/Cross	Down/Cross	Down	Down	Down
Casing Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Slot Size (in.)	0.01 in	0.01 in	0.01 in	0.01 in	0.01 in	0.01 in
Top of Casing Elevation (Ft, Mean Sea Level [MSL])	271.56	274.97	274.68	273.92	274.13	279.58
Grade or Surface Elevation (Ft, MSL)	270.0	272.0	271.46	270.8	271.16	276.4
Well Depth (Ft, Below Grade Surface [BGS])	35	35	40	35	40	35
Well Depth (Ft, Below Top of Casing [BTOC])	36.56	37.97	43.22	38.12	42.97	38.18
Screen Interval From (Ft, BGS) To (Ft, BGS)	18.5 23.5	12.2 17.2	34.46 39.46	24.7 34.7	30.46 35.46	24.7 34.7
Screen Interval From (Ft, BTOC) To (Ft, BTOC)	20.06 25.06	15.17 20.17	37.68 42.68	27.82 37.82	33.43 38.43	27.88 37.88

¹ From Tables in Section I.; MSL: Mean Sea Level; BGS: Below Grade Surface; BTOC: Below Top of Casing

Table VI.A. – Groundwater Monitoring Network System(s)

Waste Management Unit/Area Name ¹	Scrubber Sludge Pond (SSP) & Ash Ponds (AP)					
Well Number(s):	AP PZ-1	AP PZ-4S	SSP/AP MW-1			
Hydrogeologic Unit Monitored	SSP & AP (Shallow)	SSP & AP (Shallow)	SSP & AP (Shallow)			
Type (e.g., point of compliance, background, observation, etc.)	Background	Compliance	Water Level Only			
Up or Down Gradient	Up	Down/Cross	Up			
Casing Diameter and Material	2" PVC	2" PVC	2" PVC			
Screen Diameter and Material	2" PVC	2" PVC	2" PVC			
Screen Slot Size (in.)	0.01 in	0.01 in	0.01 in			
Top of Casing Elevation (Ft, Mean Sea Level [MSL])	265.67	273.69	272.53			
Grade or Surface Elevation (Ft, MSL)	262.70	270.7	269.33			
Well Depth (Ft, Below Grade Surface [BGS])	35	35	40			
Well Depth (Ft, Below Top of Casing [BTOC])	37.97	37.99	43.2			
Screen Interval From (Ft, BGS) To (Ft, BGS)	21.0 26.0	24.7 34.7	29.53 39.53			
Screen Interval From (Ft, BTOC) To (Ft, BTOC)	23.97 28.97	27.69 37.69	32.73 42.73			

¹ From Tables in Section I.; MSL: Mean Sea Level; BGS: Below Grade Surface; BTOC: Below Top of Casing

Table VI.A. – Groundwater Monitoring Network System(s)

Waste Management Unit/Area Name ¹	Scrubber Sludge Pond (SSP) & Ash Ponds (AP)					
Well Number(s):	SSP MW-1	SSP MW-2	SSP MW-3	SSP MW-4S	SSP MW-5S	SSP MW-6S (REH-01)
Hydrogeologic Unit Monitored	SSP & AP (Shallow)	SSP & AP (Shallow)	SSP & AP (Shallow)	SSP & AP (Shallow)	SSP & AP (Shallow)	SSP & AP (Shallow)
Type (e.g., point of compliance, background, observation, etc.)	Water Level Only	Compliance	Compliance	Compliance	Background	Background
Up or Down Gradient	Up	Down	Down	Down	Up	Up
Casing Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Slot Size (in.)	0.01 in	0.01 in	0.01 in	0.01 in	0.01 in	0.01 in
Top of Casing Elevation (Ft, Mean Sea Level [MSL])	281.18	283.66	283.65	284.38	283.77	271.03
Grade or Surface Elevation (Ft, MSL)	279	280.62	280.95	281.1	280.7	268.9
Well Depth (Ft, Below Grade Surface [BGS])	28	45	45	33	40	32.5
Well Depth (Ft, Below Top of Casing [BTOC])	30.18	48.04	47.7	36.28	43.07	34.63
Screen Interval						
From (Ft, BGS)	24.7	38.52	39.45	22.7	29.7	22.5
To (Ft, BGS)	29.7	43.52	44.45	32.7	39.7	32.5
Screen Interval						
From (Ft, BTOC)	26.88	41.56	42.15	25.98	32.77	24.63
To (Ft, BTOC)	31.88	46.56	47.15	35.98	42.77	34.63

¹ From Tables in Section I.; MSL: Mean Sea Level; BGS: Below Grade Surface; BTOC: Below Top of Casing

Table VI.A. – Groundwater Monitoring Network System(s)

Waste Management Unit/Area Name ¹	Scrubber Sludge Pond (SSP) & Ash Ponds (AP)					
Well Number(s):	AP MW-1D	AP MW-3D	AP MW-4	AP MW-5D	AP MW-6	AP MW-7D
Hydrogeologic Unit Monitored	SSP & AP (Deep)	SSP & AP (Deep)	SSP & AP (Deep)	SSP & AP (Deep)	SSP & AP (Deep)	SSP & AP (Deep)
Type (e.g., point of compliance, background, observation, etc.)	Compliance	Compliance	Compliance	Compliance	Water Level Only	Compliance
Up or Down Gradient	Down	Down/Cross	Down	Down	Up	Down
Casing Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Slot Size (in.)	0.01 in	0.01 in	0.01 in	0.01 in	0.01 in	0.01 in
Top of Casing Elevation (Ft, Mean Sea Level [MSL])	272.04	273.67	274.16	273.76	277.78	279.42
Grade or Surface Elevation (Ft, MSL)	269.02	270.5	270.93	270.7	274.74	276.4
Well Depth (Ft, Below Grade Surface [BGS])	40	55	50	52	50	53
Well Depth (Ft, Below Top of Casing [BTOC])	43.02	58.17	53.23	55.06	53.04	56.02
Screen Interval						
From (Ft, BGS)	34.52	44.7	44.53	41.7	41.04	42.7
To (Ft, BGS)	39.52	54.7	49.53	51.7	46.04	52.7
Screen Interval						
From (Ft, BTOC)	37.54	47.87	47.76	44.76	44.08	45.72
To (Ft, BTOC)	42.54	57.87	52.76	54.76	49.08	55.72

¹ From Tables in Section I.; MSL: Mean Sea Level; BGS: Below Grade Surface; BTOC: Below Top of Casing

Table VI.A. – Groundwater Monitoring Network System(s)

Waste Management Unit/Area Name ¹	Scrubber Sludge Pond (SSP) & Ash Ponds (AP)					
Well Number(s):	AP PZ-2	AP PZ-3	AP PZ -4			
Hydrogeologic Unit Monitored	SSP & AP (Deep)	SSP & AP (Deep)	SSP & AP (Deep)			
Type (e.g., point of compliance, background, observation, etc.)	Water Level Only	Water Level Only	Compliance			
Up or Down Gradient	Down/Cross	Down	Down/Cross			
Casing Diameter and Material	2" PVC	2" PVC	2" PVC			
Screen Diameter and Material	2" PVC	2" PVC	2" PVC			
Screen Slot Size (in.)	0.01 in	0.01 in	0.01 in			
Top of Casing Elevation (Ft, Mean Sea Level [MSL])	274.91	259.11	273.65			
Grade or Surface Elevation (Ft, MSL)	271.71	255.76	271.39			
Well Depth (Ft, Below Grade Surface [BGS])	40	40	45			
Well Depth (Ft, Below Top of Casing [BTOC])	43.2	43.35	47.26			
Screen Interval From (Ft, BGS) To (Ft, BGS)	34.51 39.51	34.46 39.46	38.49 43.49			
Screen Interval From (Ft, BTOC) To (Ft, BTOC)	37.71 42.71	37.81 42.81	40.75 45.75			

¹ From Tables in Section I.; MSL: Mean Sea Level; BGS: Below Grade Surface; BTOC: Below Top of Casing

Table VI.A. – Groundwater Monitoring Network System(s)

Waste Management Unit/Area Name ¹	Scrubber Sludge Pond (SSP) & Ash Ponds (AP)					
Well Number(s):	SSP MW-2D	SSP MW-3D	SSP MW-4	SSP MW-5D	SSP MW-6D	
Hydrogeologic Unit Monitored	SSP & AP (Deep)	SSP & AP (Deep)	SSP & AP (Deep)	SSP & AP (Deep)	SSP & AP (Deep)	
Type (e.g., point of compliance, background, observation, etc.)	Compliance	Compliance	Compliance	Background	Background	
Up or Down Gradient	Down	Down	Down	Up	Up	
Casing Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	
Screen Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	
Screen Slot Size (in.)	0.01 in	0.01 in	0.01 in	0.01 in	0.01 in	
Top of Casing Elevation (Ft, Mean Sea Level [MSL])	283.0	284.13	283.86	283.96	271.08	
Grade or Surface Elevation (Ft, MSL)	279.7	281.3	280.86	280.7	268.0	
Well Depth (Ft, Below Grade Surface [BGS])	60	57	50	60	50	
Well Depth (Ft, Below Top of Casing [BTOC])	63.3	59.83	53.0	63.26	53.08	
Screen Interval From (Ft, BGS) To (Ft, BGS)	49.7 59.7	51.7 56.7	42.96 47.96	49.7 59.7	39.7 49.7	
Screen Interval From (Ft, BTOC) To (Ft, BTOC)	53.0 63.0	54.53 59.53	45.96 50.96	52.96 62.96	42.78 52.78	

¹ From Tables in Section I.; MSL: Mean Sea Level; BGS: Below Grade Surface; BTOC: Below Top of Casing

Table VI.C.1. – Groundwater Detection Monitoring Parameters^{1,2}

Name of CCR Unit	Site F Landfill, Scrubber Sludge Pond, Ash Ponds			
Registered CCR Unit No.	001, 004, 006			
Parameters ²	Sampling Frequency	Analytical Method	Practical Quantification Limit (units) ⁴	Concentration Limit ³ (units)
Site F Landfill (Shallow)				
Boron	Semi-Annual	EPA6010D	0.08 (mg/L)	0.62 (mg/L)
Calcium	Semi-Annual	EPA6010D	0.5 (mg/L)	1,510 (mg/L)
Chloride	Semi-Annual	EPA 9056A	2.5 (mg/L)	4,070 (mg/L)
Fluoride	Semi-Annual	EPA 9056A	0.25 (mg/L)	1.16 (mg/L)
Field pH	Semi-Annual	Field Measured	N/A	3.5 - 4.46 (SU)
Sulfate	Semi-Annual	EPA 9056A	25 (mg/L)	2,890 (mg/L)
Total Dissolved Solids (TDS)	Semi-Annual	SM2540C	20 (mg/L)	14,400 (mg/L)
Site F Landfill (Deep)				
Boron	Semi-Annual	EPA6020B	0.08 (mg/L)	0.598 (mg/L)
Calcium	Semi-Annual	EPA6020B	0.5 (mg/L)	538 (mg/L)
Chloride	Semi-Annual	EPA 9056A	2.5 (mg/L)	650 (mg/L)
Fluoride	Semi-Annual	EPA 9056A	0.25 (mg/L)	0.25 (mg/L)
Field pH	Semi-Annual	Field Measured	N/A	6.01 - 7.67 (SU)
Sulfate	Semi-Annual	EPA 9056A	25 (mg/L)	2,980 (mg/L)
Total Dissolved Solids (TDS)	Semi-Annual	SM2540C	20 (mg/L)	4,920 (mg/L)
Scrubber Sludge Pond and Ash Ponds				
Boron	Semi-Annual	EPA6010D	0.08 (mg/L)	1.41 (mg/L)
Calcium	Semi-Annual	EPA6010D	0.5 (mg/L)	745 (mg/L)
Chloride	Semi-Annual	EPA 9056A	2.5 (mg/L)	1,750 (mg/L)
Fluoride	Semi-Annual	EPA 9056A	0.25 (mg/L)	0.5 (mg/L)
Field pH	Semi-Annual	Field Measured	N/A	5.25 - 6.32 (SU)
Sulfate	Semi-Annual	EPA 9056A	25 (mg/L)	3,300 (mg/L)
Total Dissolved Solids (TDS)	Semi-Annual	SM2540C	20 (mg/L)	8,340 (mg/L)

Table VI.C.1. – Groundwater Detection Monitoring Parameters^{1,2}

¹CCR units under assessment monitoring must conduct sampling and analysis for parameters required under detection monitoring.

² If there is a determination of a statistically significant increase over the background value for any Appendix III constituent adopted by reference in 30 TAC §352.1421 at any monitoring well, and If the owner or operator does not make an alternative source demonstration under 30 TAC §352.941 satisfactory to the executive director, then the owner or operator shall initiate an assessment monitoring program as required in 40 CFR §257.94(e). If the owner or operator does make an alternative source demonstration under 30 TAC §352.941 that is satisfactory to the executive director, then the owner or operator may continue to monitor in accordance with the detection monitoring program established under 30 TAC §352.941.

³The concentration limit is the basis for determining whether a release has occurred from the CCR unit/area.

⁴PQL may be substituted with NELAC approved alternate laboratory limits.

Table VI.D-2. – Groundwater Assessment Monitoring Parameters¹

Name of CCR Unit	Site F Landfill, Scrubber Sludge Pond, Ash Ponds				
Registered CCR Unit No.	001, 004, 006				
Parameter(s) ²	Sampling Frequency of Detected Appendix IV ⁴ Parameters	Sampling Frequency Appendix IV ⁵	Analytical Method	Practical Quantification Limit (units) ⁶	Concentration Limit ³ (units)
Site F Landfill (Shallow)					
Antimony	Semi-annual	Annually	EPA 6020B	0.002 (mg/L)	0.006 (mg/L)
Arsenic	Semi-annual	Annually	EPA 6020B	0.001 (mg/L)	0.0431 (mg/L)
Barium	Semi-annual	Annually	EPA 6020B	0.01 (mg/L)	2 (mg/L)
Beryllium	Semi-annual	Annually	EPA 6020B	0.001 (mg/L)	0.0933 (mg/L)
Cadmium	Semi-annual	Annually	EPA 6020B	0.001 (mg/L)	0.0144 (mg/L)
Chromium	Semi-annual	Annually	EPA 6020B	0.002 (mg/L)	0.1 (mg/L)
Cobalt	Semi-annual	Annually	EPA 6020B	0.0005 (mg/L)	0.136 (mg/L)
Fluoride	Semi-annual	Annually	EPA 9056A	0.25 (mg/L)	4 (mg/L)
Lead	Semi-annual	Annually	EPA 6020B	0.001 (mg/L)	0.0171 (mg/L)
Lithium	Semi-annual	Annually	EPA 6010D	0.005 (mg/L)	1.34 (mg/L)
Mercury	Semi-annual	Annually	EPA 7470A	0.0002 (mg/L)	0.002 (mg/L)
Molybdenum	Semi-annual	Annually	EPA 6020B	0.005 (mg/L)	0. 1 (mg/L)

Selenium	Semi-annual	Annually	EPA 6020B	0.005 (mg/L)	0.0525 (mg/L)
Thallium	Semi-annual	Annually	EPA 6020B	0.001 (mg/L)	0.00552 (mg/L)
Radium 226+228	Semi-annual	Annually	EPA 901.1 / 903.0	5 (pCi/L)	32.6 (pCi/L)
Site F Landfill (Deep)					
Antimony	Semi-annual	Annually	EPA 6020B	0.002 (mg/L)	0.006 (mg/L)
Arsenic	Semi-annual	Annually	EPA 6020B	0.001 (mg/L)	0.01 (mg/L)
Barium	Semi-annual	Annually	EPA 6020B	0.01 (mg/L)	2 (mg/L)
Beryllium	Semi-annual	Annually	EPA 6020B	0.001 (mg/L)	0.004 (mg/L)
Cadmium	Semi-annual	Annually	EPA 6020B	0.001 (mg/L)	0.005 (mg/L)
Chromium	Semi-annual	Annually	EPA 6020B	0.002 (mg/L)	0.1 (mg/L)
Cobalt	Semi-annual	Annually	EPA 6020B	0.0005 (mg/L)	0.006 (mg/L)
Fluoride	Semi-annual	Annually	EPA 9056A	0.25 (mg/L)	4 (mg/L)
Lead	Semi-annual	Annually	EPA 6020B	0.001 (mg/L)	0.015 (mg/L)
Lithium	Semi-annual	Annually	EPA 6010D	0.005 (mg/L)	0.543 (mg/L)
Mercury	Semi-annual	Annually	EPA 7470A	0.0002 (mg/L)	0.002 (mg/L)
Molybdenum	Semi-annual	Annually	EPA 6020B	0.005 (mg/L)	0.1 (mg/L)
Selenium	Semi-annual	Annually	EPA 6020B	0.005 (mg/L)	0.05 (mg/L)
Thallium	Semi-annual	Annually	EPA 6020B	0.001 (mg/L)	0.002 (mg/L)
Radium 226+228	Semi-annual	Annually	EPA 901.1 / 903.0	5 (pCi/L)	9.82 (pCi/L)
Scrubber Sludge Pond and Ash Ponds					
Antimony	Semi-annual	Annually	EPA 6020B	0.002 (mg/L)	0.006 (mg/L)
Arsenic	Semi-annual	Annually	EPA 6020B	0.001 (mg/L)	0.01 (mg/L)
Barium	Semi-annual	Annually	EPA 6020B	0.01 (mg/L)	2 (mg/L)
Beryllium	Semi-annual	Annually	EPA 6020B	0.001 (mg/L)	0.004 (mg/L)

Cadmium	Semi-annual	Annually	EPA 6020B	0.001 (mg/L)	0.005 (mg/L)
Chromium	Semi-annual	Annually	EPA 6020B	0.002 (mg/L)	0.1 (mg/L)
Cobalt	Semi-annual	Annually	EPA 6020B	0.0005 (mg/L)	0.006 (mg/L)
Fluoride	Semi-annual	Annually	EPA 9056A	0.25 (mg/L)	4 (mg/L)
Lead	Semi-annual	Annually	EPA 6020B	0.001 (mg/L)	0.015 (mg/L)
Lithium	Semi-annual	Annually	EPA 6010D	0.005 (mg/L)	1.69 (mg/L)
Mercury	Semi-annual	Annually	EPA 7470A	0.0002 (mg/L)	0.002 (mg/L)
Molybdenum	Semi-annual	Annually	EPA 6020B	0.005 (mg/L)	0.1 (mg/L)
Selenium	Semi-annual	Annually	EPA 6020B	0.005 (mg/L)	0.05 (mg/L)
Thallium	Semi-annual	Annually	EPA 6020B	0.001 (mg/L)	0.002 (mg/L)
Radium 226+228	Semi-annual	Annually	EPA 901.1 / 903.0	5 (pCi/L)	5 (pCi/L)

¹If any of the constituents listed in Appendix IV adopted by reference in 30 TAC §352.1431 have been detected at a statistically significant level exceeding the groundwater protection standards, and if the owner or operator does not make an alternative source demonstration under 30 TAC §352.951, satisfactory to the executive director, then the owner or operator shall initiate assessment of corrective measures as required in 40 CFR §257.95(g)(4). If the owner or operator does make an alternative source demonstration under 30 TAC §352.951, that is satisfactory to the executive director, then the owner or operator may continue to monitor in accordance with the assessment monitoring program established under 30 TAC §352.951.

²Parameters to be monitored in the CCR unit(s)

³The concentration limit is the basis for determining whether a release has occurred from the CCR unit/area.

⁴Conduct sampling frequency and analysis as required in 40 CFR §257.95(d) and 30 TAC §352.951. Sample and analyze all Appendix III (see Table VI.C.1) and detected Appendix IV constituents semi-annually.

⁵Conduct sampling frequency and analysis as required in 40 CFR §257.95(b) and 30 TAC §352.951. Sample and analyze all Appendix IV constituents annually.

⁶PQL may be substituted with NELAC approved alternate laboratory limits.

Table VII.A.1. -Units Closure

For each unit to be registered, list the unit components to be decontaminated, the possible methods of decontamination, and the possible methods of disposal of wastes and waste residues generated during unit closure.

Equipment or CCR Unit	Possible Methods of Decontamination ¹	Possible Methods of Disposal ¹
Scrubber Sludge Pond		Closed. CCR material has been removed and hauled to Site F Landfill for disposal.
Ash Ponds A, B, and C		Closed. CCR material has been removed and hauled to Site F Landfill for disposal.
Site F Landfill		Closed by installing compacted clay barrier, overlain with a geomembrane and geocomposite, overlain with an 18-inch infiltration layer and 6-inch erosion layer.

¹ Applicants may list more than one appropriate method.

Table VIII.A.1. – Post-Closure Cost Summary for Existing Registered Units

Unit	Cost
Site F Landfill	\$2,449,406.77
Scrubber Sludge Pond Ash Ponds A, B, and C	\$1,075,275.30
Total Existing Unit Post-Closure Cost Estimate ²	\$3,524,682.07 (in 2022 Dollars) ¹

¹ As units are added or deleted from these tables through future registration amendments, the remaining itemized unit costs should be updated for inflation when re-calculating the revised total cost in current dollars.

² Cost estimate reflects the additional wells that were installed following the submission of the addendum to the application.

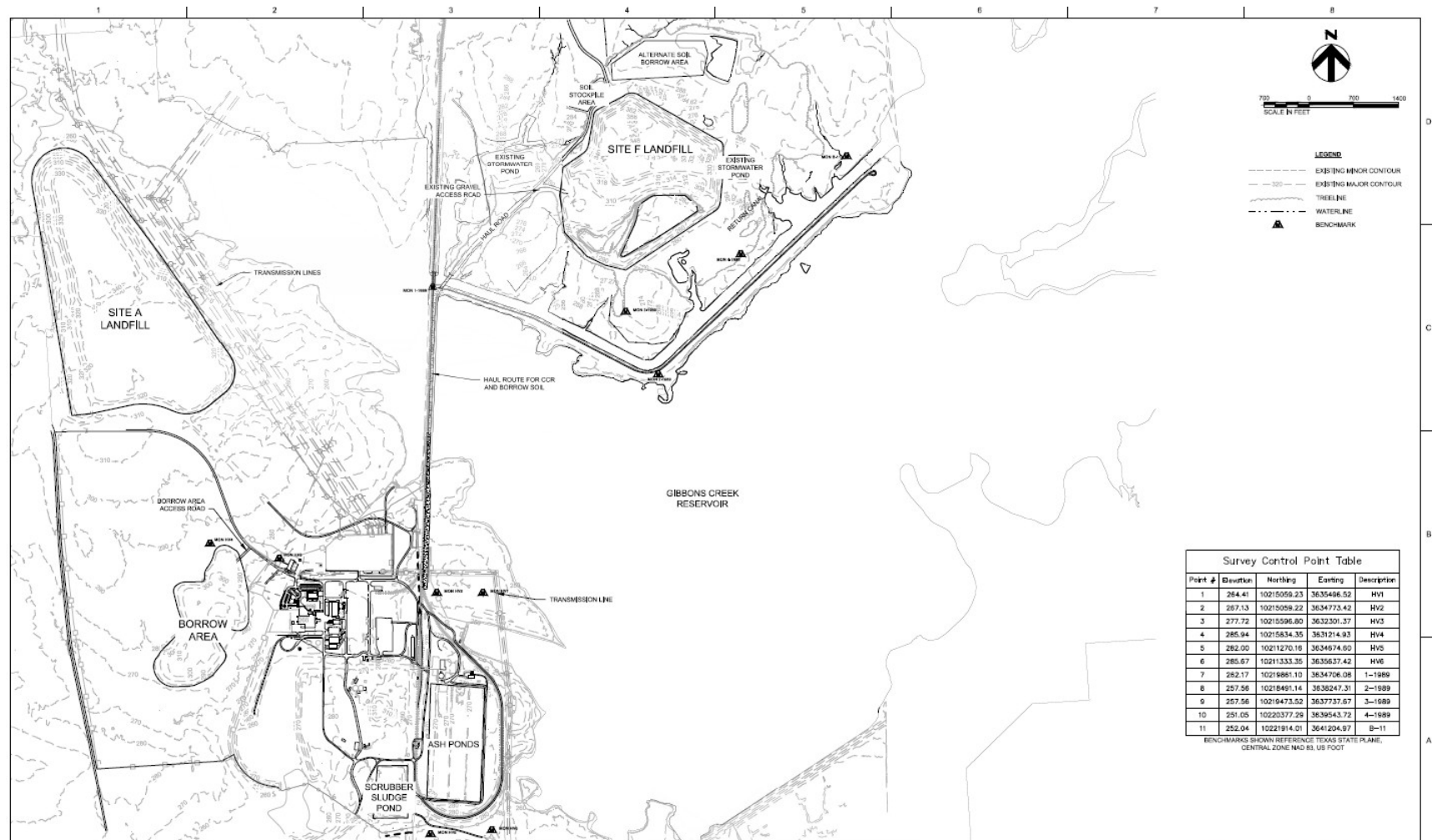
Table VIII.B. – Post-Closure Period

Unit Name	Date Certified Closed	Authorized Post-Closure Period (Yrs.)	Earliest Date Post-Closure Ends ¹
Scrubber Sludge Pond	5/16/2022	*	*
Ash Ponds A, B, and C	5/16/2022	*	*
Site F Landfill	6/05/2025	30 years	6/05/2055

¹ Post-Closure Care shall continue beyond the specified date until the Executive Director has approved the applicant's request to reduce or terminate the post-closure period, consistent with 30 TAC §352.1241 – Post-Closure Care Requirements.

* Final post closure care status and duration is dependent on the groundwater monitoring sampling results and analysis. Post-closure ends for Scrubber Sludge Pond and Ash Ponds A, B, and C when registrant submits and receives TCEQ approval on a groundwater report that demonstrates the sampling results are below the established background concentration limits in accordance with Special Provision VIII.1.

Attachment A – Registration Boundary and CCR Unit Map



ISSUED FOR CONSTRUCTION

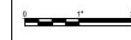
HDR
Firm Registration No. P4754
17115 Preston Road, Suite 300
Dallas, Texas 75248-1229
972.966.4400

PROJECT MANAGER: D. VOGT, P.E.		
1	08/20/21	ISSUED FOR UED
ISSUE	DATE	DESCRIPTION
PROJECT NUMBER: 10292148		



Gibbons Creek Environmental
Redevelopment Group, LLC
SITE F LANDFILL CLOSURE
Anderson, Texas

FACILITY LAYOUT MAP



FILENAME: 01C-05.dwg
SCALE: 1"=700'

SHEET

SHEET INDEX

- SHEET 1 - Tract Map
- SHEET 2 thru 6 - Review of Title Reports
- SHEET 8 - Closed Record info and Line Table
- SHEET 10 - Tract 1
- SHEET 11 - Tract 5
- SHEET 12 - Tract 9
- SHEET 13 - Tract 7
- SHEET 14 - Tract 6
- SHEET 15 - Tract 8
- SHEET 16 - Tract 10
- SHEET 17 - Tract 11
- SHEET 18 - Tract 12A

TRACT 1
3834.054 ACRES

TRACT 2
14.983 ACRES

TRACT 3
125.51 ACRES

TRACT 4
180.98 ACRES

TRACT 5
436.61 ACRES

TRACT 6
423.65 ACRES

TRACT 7
114.39 ACRES

TRACT 8
515.89 ACRES

TRACT 9
76.557 ACRES

TRACT 10
14.983 ACRES

TRACT 11
14.983 ACRES

TRACT 12A
14.983 ACRES

**PLAT OF SURVEY
SHOWING**

PART OF THE Wm. FAIRFAX GRAY SURVEY A - 248
PART OF THE Wm. FAIRFAX GRAY SURVEY A - 247
PART OF THE MARY PETERSON SURVEY A - 369
PART OF THE JOHN C. STURTEVANT SURVEY A - 432
PART OF THE SAMUEL R. MARSHALL SURVEY A - 346
PART OF THE JOHN MILLHANKS SURVEY A - 338
PART OF THE JOHN F. MARTIN SURVEY A - 312
PART OF THE TANDY H. WALKER SURVEY A - 471
PART OF HT & B RR CO. SURVEY A - 275
PART OF THE PHILIP GOODBREAD SURVEY A - 223
PART OF THE Geo. SIDDALL SURVEY A - 506
AND PART OF THE WILLIAM WALKER SURVEY A - 470
GRIMES COUNTY, TEXAS

SHEET 1 OF 18

This is to certify that this map as plat on the following date: 1 through 18 and the survey as shown by these maps, records, or documents are true and correct.

Witness my hand and seal of office on the day of January, 2017.

Daniel Lee Cooper
REGISTERED PROFESSIONAL LAND SURVEYOR NO. 12345

NOTARIAL PUBLIC
My Comm. Expires: 12/31/2018
PHONE: 817-555-1234 FAX: 817-555-5678
OFFICE: 123 Main St., Suite 100, Dallas, TX 75201

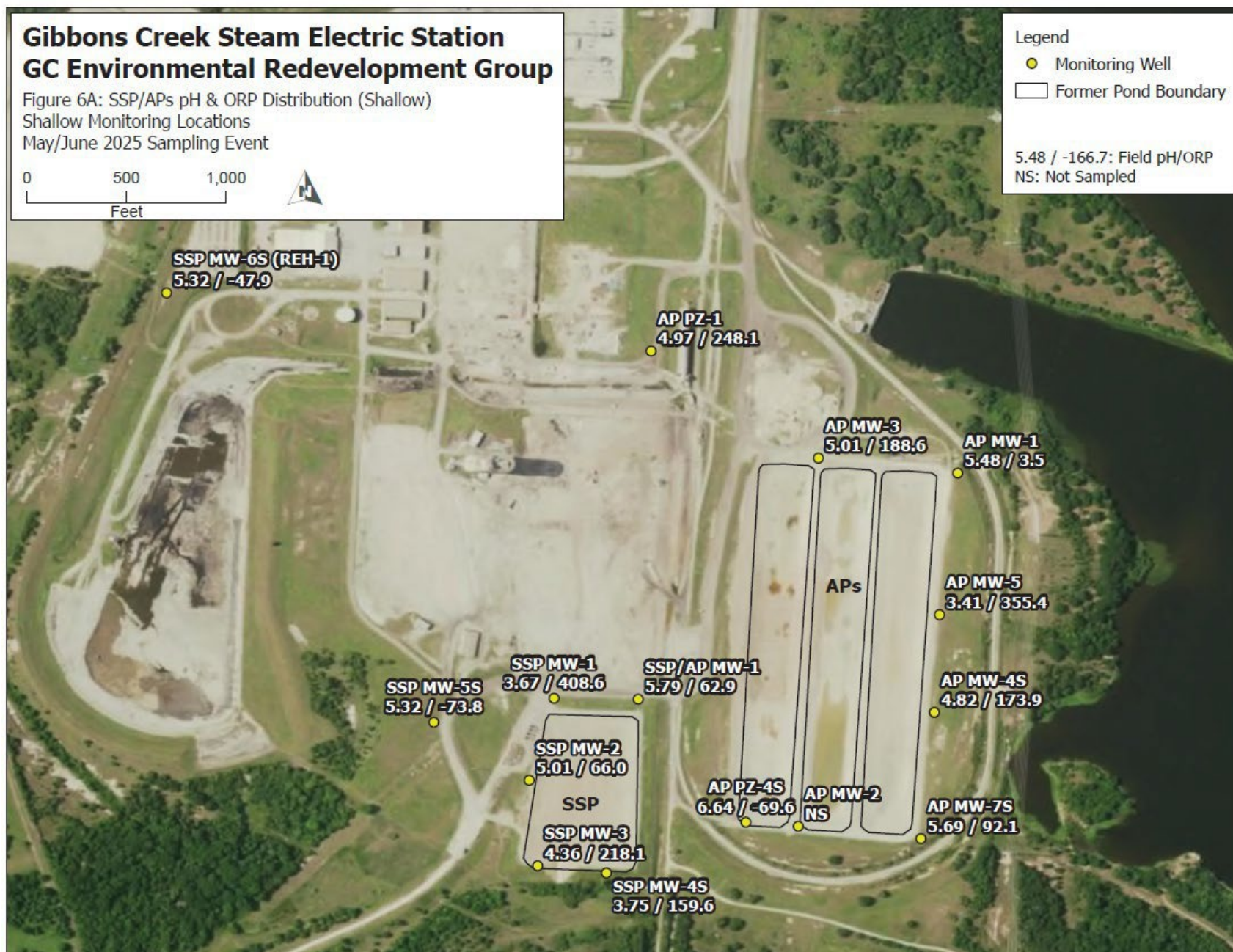
Attachment A – Registration Boundary and CCR Unit Map



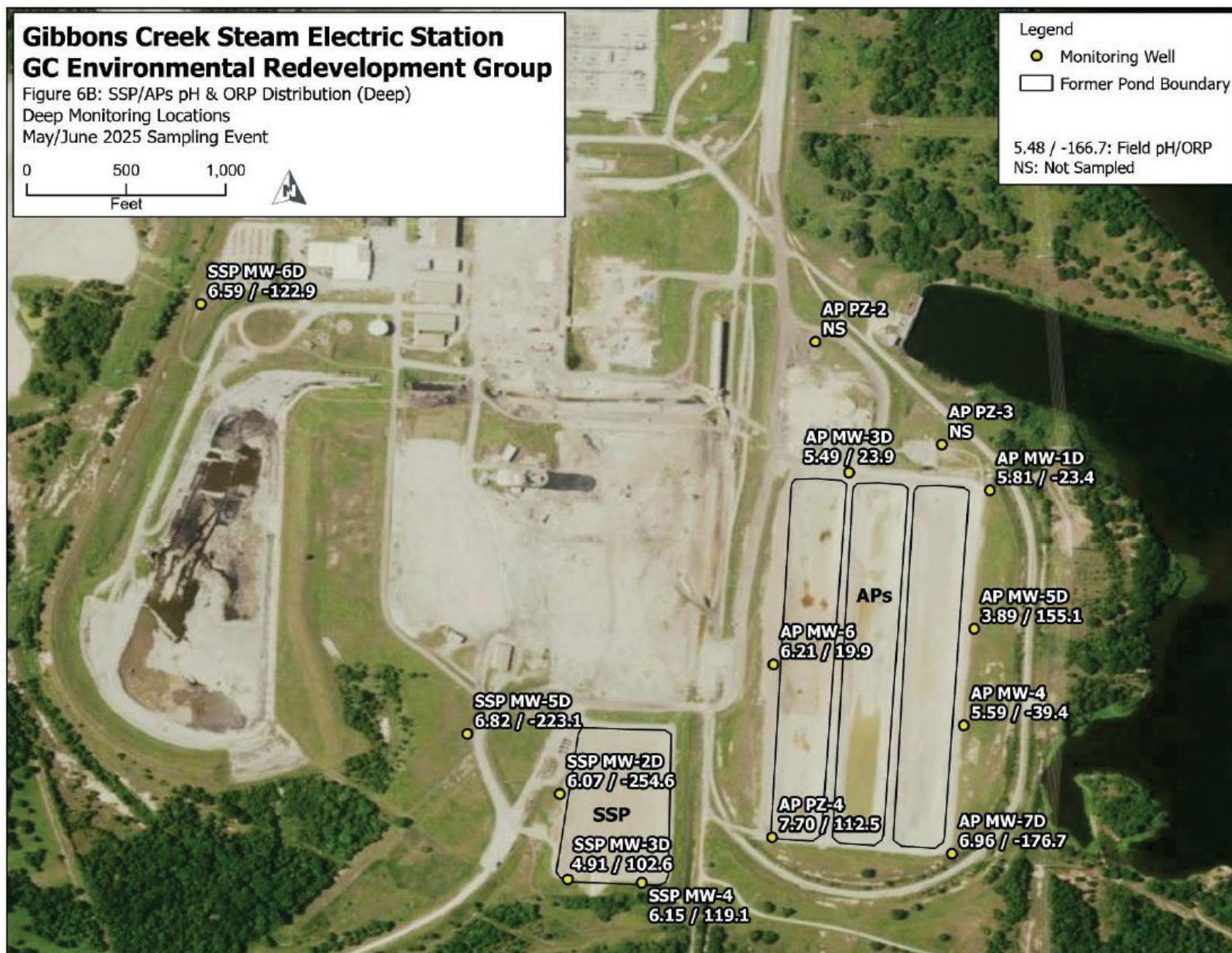
Attachment A – Registration Boundary and CCR Unit Map



Attachment A – Registration Boundary and CCR Unit Map



Attachment A – Registration Boundary and CCR Unit Map



Attachment B – Registration Application Revision Chronology

Classification Type¹	Revision No.	Application Date	Purpose / Description
New	0	January 24, 2022 ²	Initial registration
New	1	May 9, 2022	Technical NOD Response
New	2	September 6, 2022	Technical NOD Response
New	3	November 16, 2022	Technical NOD Response
New	4	October 6, 2023	Technical NOD Response
New	5	April 19, 2024 [*]	Technical NOD Response
New	6	August 4, 2025 [*]	Technical NOD Response

¹ Classification Types: New, Minor Amendment, Major Amendment, Other (indicate).

² Signature Page Date.

^{*} No Signature Page was submitted.