DOCKETED	
Docket Number:	07-AFC-06C
Project Title:	Carlsbad Energy Center - Compliance
TN #:	254823
Document Title:	ANNUAL COMPLIANCE REPORT- 2023
Description:	ANNUAL COMPLIANCE REPORT- 2023
Filer:	Anwar Ali
Organization:	Carlsbad Energy Center LLC
Submitter Role:	Commission Staff
Submission Date:	3/4/2024 2:54:26 PM
Docketed Date:	3/4/2024

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970

March 1, 2024

Anwar Ali, Ph.D. Compliance Project Manager Carlsbad Energy Center Project (07-AFC-06C) California Energy Commission 1516 Ninth Street (MS-2000) Sacramento, CA 95814

RE: CARLSBAD ENERGY CENTER PROJECT, DOCKET NO. 07-AFC-06C CONDITION OF CERTIFICATION, COM-7 ANNUAL COMPLIANCE REPORT, 2023

Dear Dr. Ali:

Carlsbad Energy Center LLC ("Project Owner") submits the 2023 Annual Compliance Report in compliance with the AFC Docket No. 07-AFC-06C, Conditions of Certification (COCs) COM-7 for the amended Carlsbad Energy Center Project (ACECP) located at 4950 Avenida Encinas, Carlsbad, California.

This report includes information that demonstrates the facility met all applicable conditions of certification during this operational period.

If you have any questions or comments, please do not hesitate to contact Ryan Stewart at (760) 710-3943.

Sincerely,

Paul Mattesich Plant Manager Carlsbad Energy Center LLC

- Attached: Carlsbad Energy Center Project (07-AFC-06C), California Energy Commission, Annual Compliance Report, 2023
- Cc: File

Carlsbad Energy Center Project (07-AFC-06C)

California Energy Commission Annual Compliance Report

2023

Submitted by: Carlsbad Energy Center LLC Date Submitted: 03-01-2024

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- Attachment B HAZ-1: Hazardous Materials Business Plan
- Attachment C HAZ-8: Contractor Verification Statement
- Attachment D SOIL&WATER-4: EPS Water Reports
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- Attachment I VIS-1: Surface Treatment Summary
- Attachment J VIS-2/VIS-3: Landscape Maintenance Summary
- Attachment K WASTE-9: Waste Generation Report
- Attachment L Compliance Matrix

I. Summary

a. Project Annual Compliance Summary

The Carlsbad Energy Center Project (CECP) began commercial operation on December 12, 2018. In compliance with the California Energy Commission (Energy Commission) license, Carlsbad Energy Center LLC submits the information herein demonstrating compliance with condition of certification COM-8 Annual Compliance Report requirements.

This annual report includes data required by COM-7 for 2023.

II. Operational Status

a. CECP is commercially operational. No significant changes to operations occurred in 2023.

III. Post-Certification Changes to license 07-AFC-06C

a. There were no changes to license 07-AFC-06C in 2023.

IV. Submittal Deadlines Missed

a. No submittal deadlines were missed in 2023.

V. List of Files to and Permits Issued by Other Governmental Agencies

a. Filings Submitting:

i. No filings to Governmental agencies during 2023.

b. Permits issued:

- i. Department of Environmental Health Annual Permit: DEH2018-HUPFP-004698- expires April 30, 2024
- ii. San Diego Air Pollution Control District: Title V Operating Permit: APCD2021-TVP-00046 with expiration of February 2, 2028.

VI. Evaluation of the Site's Contingency Plan

- a. The site's contingency plan was reviewed for potential updates in 2023.
- b. The emergency contact list was reviewed for accuracy and minor updates were applied.
- c. Various changes were made related to emergency supplies, chemicals, and hazardous materials location.

VII. List of Complaints, Notices of Violation, Official Warnings, Citations Received:

a. The following Complaints, Notices of Violation, Official Warnings, Citations were received in 2023:

On July 23, 2023, CECP experienced an excess emissions exceedance of Unit 6 NOx-pounds per hour shutdown emission limit. The NOx-pounds per hour shutdown emission limit of 0.6 lbs/hr was exceeded with a lbs/hr concentration of 2.497 lbs/hr. CECP was given a Notice of Violation (NOV) by the San Diego County Air Pollution Control District (SDAPCD) on October 27, 2023 (APCD2023-NOV-000807). The SDAPCD issued a Settlement Offer to resolve the NOV on December 19, 2023. CEC accepted the Settlement Offer and the NOV was officially resolved on December 28, 2023.

- b. On October 25, 2023, Robert Ziss submitted a public comment during CECPs Petition to Amend public comment period. In his comment Mr. Ziss stated "The power plant units should only operate during daylight hours. Because the exhaust stacks are only 100 feet tall, the exhaust emissions spread laterally during calm wind conditions and on shore on offshore periods. These conditions occur every day sending pollution into the SDG&E maintainable facility and homes on the north end of Terramar subdivision. Black particular particles are seen on all horizontal house external surfaces. The old air quality study that caused the Encina power plant to require a 400-foot exhaust stack will verify my allegation. This time it is not sulfur from fuel oil but natural gas particulate". Currently, no formal response has been provided to Mr. Ziss.
- c. On November 28, 2023, Ted Viola a citizen of San Diego, notified CECP of "graffiti on the new retaining wall on the south side of the railroad bridge". Mr. Viola was notified that the location of the graffiti was not on CECP property, or Cabrillo Power I LLC's property, rather it was on Encina Wastewater Authority's sewer lift bridge and their sole responsibility. It was recommended that Mr. Viola contact Encina Wastewater Authority with any concerns.

Attachment A BIO-2: Annual Biologist Report



Biological Resources Annual Compliance Report

Carlsbad Energy Center (07-AFC-06C), 2023 Reporting Period PREPARED FOR Carlsbad Energy Center

DATE February 2024

REFERENCE 0683726



DOCUMENT DETAILS

The details entered below are automatically shown on the cover and the main page footer. PLEASE NOTE: This table must NOT be removed from this document.

DOCUMENT TITLE	Biological Resources Annual Compliance Report
DOCUMENT SUBTITLE	Carlsbad Energy Center (07-AFC-06C), 2023 Reporting Period
PROJECT NUMBER	0683726
Date	February 2024
Version	02
Author	Leigh Ann Boswell, Melissa Fowler
Client name	Carlsbad Energy Center

DOCUMENT HISTORY

			ERM APPRC			
VERSION	REVISION	AUTHOR	REVIEWED BY	NAME	DATE	COMMENTS
Draft	01	Dr. Leigh Ann Boswell	Melissa Fowler	Steve Williams	02/12/24	
Final	02	Dr. Leigh Ann Boswell	Melissa Fowler	Steve Williams	02/21/24	



SIGNATURE PAGE

Biological Resources Annual Compliance Report Carlsbad Energy Center (07-AFC-06C), 2023 Reporting Period

D will

Melissa Fowler

Steve Williams, P.G. Partner

Melissa Fowler Designated Biologist

Ley! An Brand

Leigh Ann Boswell, PhD Project Manager

Environmental Resources Management, Inc. 1920 Main Street Suite 300 Irvine, California 92614 T +01 949 623 4700

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ACRONYMS AND ABBREVIATIONS

ACR	Annual Compliance Report
BCC	Bird of Conservation Concern
BLM	Bureau of Land Management
BRMIMP	Biological Resources Mitigation Implementation and Monitoring Plan
CDF	California Department of Forestry & Fire Protection
CDFW	California Department of Fish and Wildlife
CEC	Carlsbad Energy Center
CECP	Carlsbad Energy Center Project
CNDDB	California Natural Diversity Database



СОС	Conditions of Certification
ERM	Environmental Resources Management, Inc.
ESA	Endangered Species Act
MBTA	Migratory Bird Treaty Act
S	Sensitive
SCC	Species of Special Concern
USFS	United States Forest Service
USFWS	United States Fish and Wildlife Service
WEAP	Worker Environmental Awareness Program
WL	Watch List
WOF	Wildlife Observation Form



1. INTRODUCTION

This Annual Compliance Report (ACR) summarizes biological resources monitoring activities and documentation conducted during operations at the Carlsbad Energy Center (CEC; Figure 1) from 1 January through 31 December 2023, in accordance with the July 2015 Biological Resources Mitigation Implementation and Monitoring Plan and California Energy Commission Conditions of Certification (COCs) BIO-6.

1.1 CARLSBAD ENERGY CENTER PROJECT PHASE I OVERVIEW

Tank demolition/removal, site preparation and remediation activities for Phase I of the Amended Carlsbad Energy Center Project (CECP) were completed in November 2015. Phase I berm removal commenced the first week of February 2016 and was completed in mid-May 2016.

1.2 CARLSBAD ENERGY CENTER PROJECT PHASE II OVERVIEW

The California Energy Commission's Compliance Project Manager approved the start of construction on 6 June 2016. Phase II of the Amended CECP began in February 2017 and was completed in October 2018 with complete demobilization in January 2019.

The Construction Closure Report was submitted to the California Energy Commission on March 18, 2019 and was approved on August 20, 2019.

1.3 CONDITIONS OF CERTIFICATION OVERVIEW

The following biological COCs covered by this ACR include, but are not limited to:

- BIO-2 Designated Biologist Duties
- BIO-5 Worker Environmental Awareness Program (WEAP)
- BIO-6 Biological Resources Mitigation Implementation and Monitoring Plan (BRMIMP)
- BIO-7 Impact Avoidance Mitigation Features
- BIO-8 Mitigation Management to Avoid Harassment or Harm

2. OPERATIONS MONITORING SUMMARY

This section summarizes biological monitoring activities conducted by Environmental Resources Management, Inc. (ERM) during the 2023 reporting period. This ACR documents site conditions and biological monitoring events for operations. As previously noted, CECP Phase I and Phase II have been completed.

The frequency and duration of monitoring is dependent upon nesting and migratory seasons and the biological resources located within, as well as transiting through, the work area. Biological monitoring will continue on a quarterly basis (one visit per quarter), as well as on-call monitoring, until the Designated Biologist determines that a change is necessary for the protection of sensitive biological resources or a decrease in monitoring is warranted because of a lack of biological resources within the site.



The Biological Resources Compliance Monitoring Logs are provided in Appendix A. A list of wildlife species observed during the monitoring events are included in Appendix B. Wildlife Observation Forms (WOFs) are provided in Appendix C.

2.1 CARLSBAD ENERGY CENTER PROJECT OPERATIONS MONITORING EVENTS AND COMPLIANCE INSPECTIONS

CEC operational activities are monitored on a quarterly basis. Biological monitoring events occurred on 17 February, 7 April, 18 September, and 27 November 2023. The Biological Resources Compliance Monitoring Logs are provided in Appendix A.

2.2 NESTING BIRDS

On 7 April 2023, three active house finch (*Haemorhous mexicanus*) nests were observed in the cable trays below cooling fans 0TS26/0TC26 by the fuel gas compressors, cooling fans 9TS11/9TC11/9TI11 for Unit 9, and cooling fans 7TS41/TC41/TI41 for Unit 7. A 25' buffer was established around each of the nests, with caution signs placed outside the buffer zones.

On 31 July 2023, an active mourning dove (*Zenaida macroura*) nest with adult was observed on the north side of Unit 10 at the main generator terminal box, built on top of the Unit 10 combustion turbine generator junction box, labeled 10CTG-JB-001. A 25' buffer was established around the nest, with caution signs placed outside the buffer zone. On 8 August 2023, the nest was observed to have been destroyed or raided by predators. No activity was observed, and the inactive nest was removed with Designated Biologist permission.

On 8 August 2023, an active mourning dove nest containing an egg and a hatchling was observed built on the Unit 10 CO_2 bank. A 25' buffer was established around the nest, with caution signs placed outside the buffer zone to warn workers.

On 8 August 2023, an active mourning dove nest containing an egg was observed built on the Unit 8 CO₂ bank. A 25' buffer was established around the nest, with caution signs placed outside the buffer zone to warn workers. On 14 August 2023, the nest was observed to be abandoned and no nesting birds were observed. Pieces of egg were observed on the ground as though the egg had fallen through the metal openings where the nest was built. The inactive nest was removed with Designated Biologist permission.

No additional active nests were identified within the operating site. The Biological Resources Compliance Monitoring Logs are provided in Appendix A and the WOFs are provided in Appendix C.

2.3 SPECIAL STATUS SPECIES

Ten special-status avian species and a single special-status insect species were observed within the site vicinity during the biological monitoring events, which included:

• American peregrine falcon (*Falco peregrinus anatum*; California Department of Forestry & Fire Protection [CDF]: Sensitive [S])



- American white pelican (*Pelecanus erythrorhynchos*; United States Fish and Wildlife Service [USFWS]: Bird of Conservation Concern [BCC]; California Department of Fish and Wildlife [CDFW]: Species of Special Concern [SSC]),
- California brown pelican (*Pelecanus occidentalis californicus*; Bureau of Land Management [BLM]: S; United States Forest Service [USFS]: S)
- Double-crested cormorant (*Nannopterum auritum*; CDFW: Watch List [WL])
- Great blue heron (Ardea herodias; CDF: S)
- Great egret (*Ardea alba*; CDF: S)
- Long-billed curlew (*Numenius americanus*; CDFW: WL)
- Monarch butterfly (*Danaus plexippus*; Federal Endangered Species Act [ESA] Candidate; USFS: S)
- Northern harrier (*Circus hudsonius*; USFWS: BCC; CDFW: SSC)
- Osprey (Pandion haliaetus; CDFW: WL; CDF: S)
- Sharp-shinned hawk (*Accipiter striatus*; CDFW: WL)

Buffer zones were not needed for these special-status species because there were no active nests within operating areas.

A list of wildlife species observed during the monitoring event is included in Appendix B. No observations were submitted to California Natural Diversity Database (CNDDB) because birds in transit (fly-overs) or foraging are not recorded according to CNDDB guidelines¹.

2.4 WILDLIFE DISPLACEMENT, INJURIES, AND MORTALITIES

2.4.1 MIGRATORY BIRD TREATY ACT PROTECTED SPECIES

On 28 March 2023, the remains of a common raven (*Corvus corax*) were found on the ground north of Unit 6. On 2 May 2023, the remains of a house finch were found on the landing of the Unit 9 air intake unit. On 17 May 2023, the remains of an American crow (*Corvus branchyrhynchos*) were found on the roof of the Unit 7 package. On 18 May 2023, the remains of an American crow were found on the west side of the Unit 8/9 switchyard. No additional injured or dead species protected by the Migratory Bird Treaty Act (MBTA) or California Department of Fish and Game Codes (3503, 3503.5) were observed at the site.

A list of avian species observed during the monitoring events is included in Appendix B. The WOFs for the four deceased birds identified on site are provided in Appendix C.

2.4.2 OTHER SPECIES

No other injured or dead wildlife species were observed at the site. A list of wildlife species observed during the monitoring events is included in Appendix B.

¹ CDFW. 2016. Submitting Avian Detections to the CNDDB. Available online at: <u>https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=25731</u>



2.5 HAZARDOUS MATERIAL SPILLS

No hazardous material spills have occurred at the project site during the biological monitoring events.

2.6 TRASH

A small amount of trash was observed behind stockpiled materials in the northeast corner of the Bowl on 18 September 2023 and was reported to the CEC site contact. No other litter was observed within the project site during the biological monitoring events.

2.7 NON-COMPLIANCE REPORT

No formal non-compliance notifications or incident reports were issued.





FIGURE 1 CARLSBAD ENERGY CENTER PROJECT LOCATION MAP



Service Layer Credits: Earl, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community Source: Earl, Maxee, Eartheter Geographics, and the GIS User Community





APPENDIX A BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOGS

Carlsbad Energy Center (CEC) BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG - OPERATIONS

		CONFLIA			OPERATIO	NJ		
Date			Monitor	Time (Begin-End)				
February 17, 2	023		Nikki Bottu	ım		0700-1230		
Temperature (°F)	Humidity (%)	Wind (mph)	Precipitation (Y/N, amount)	Visibility		Weather Comment		
44 (am) 63 (pm)	36	3 W	Ν	10 mi	Cloudy all day	4		
Site Location(s)								
CEC site								
Summary of Biolog The Biological M and nesting birds	onitor conduc	ted a biologi		coring survey fo	or biological cor	nstraints, special-status species,		
Three s OTS250 Observ Observ Special-Status Sp Monar	edium, stick b small, inactive DTC25. red mourning red American Decies Observ ch (<i>Danaus pl</i>	ird nest dete e, empty, stic dove (<i>Zenaic</i> kestrel (<i>Falco</i> ed: <i>exippus</i> ; Uni	da macroura) with n o sparverius) pair on ted Sates Forest Ser	removed from lesting materia lisite. vice [USFS]: Se	structures 10TS I in mouth in ur ensitive [S]) was	511/10TC11, 0TS26/0TC26 and nit 10 area. 5 observed.		
 observ Great b Great c Double [WL]) v 	ed. blue heron (<i>Ar</i> egret (<i>Ardea a</i> e-crested corn vas observed.	rdea herodia Ilba; CDF: S) norant (Nanr	s; California Departr was observed.	ment of Foresti California Depa	ry & Fire Protec	agement [BLM]: S; USFS: S) were tion [CDF]: S) was observed. and Wildlife [CDFW]: Watch List		
Other Biological	Resources Ob	oservations:						
-			ervations were note	ed.				
Other Observati No add	ons/Commen litional observ		noted.					
Items Requiring Ac	ction/Follow-up	0						
• None.								
Wildlife Species O	bserved:							
American coot /	ulica america	(na) America	an crow (Corvus bray	churhunchos)	merican kestr	American peregrine falcon		

American coot (*Fulica americana*), American crow (*Corvus brachyrhynchos*), American kestrel, American peregrine falcon, Anna's hummingbird (*Calypte anna*), black phoebe (*Sayornis* nigricans), bushtit (*Psaltriparus minimus*), California brown pelican, California towhee (*Melozone crissalis*), common raven (*Corvus corax*), double-crested cormorant, European starling (*Sturnus vulgaris*), great blue heron, great egret, house finch (*Haemorhous mexicanus*), monarch butterfly, mourning dove, red-tailed hawk (*Buteo jamaicensis*), song sparrow (*Melospiza melodia*), western fence lizard (*Sceloporus occidentalis*), western gull, white-crowned sparrow (*Zonotrichia leucophrys*) and yellow-rumped warbler (*Setophaga coronata*).



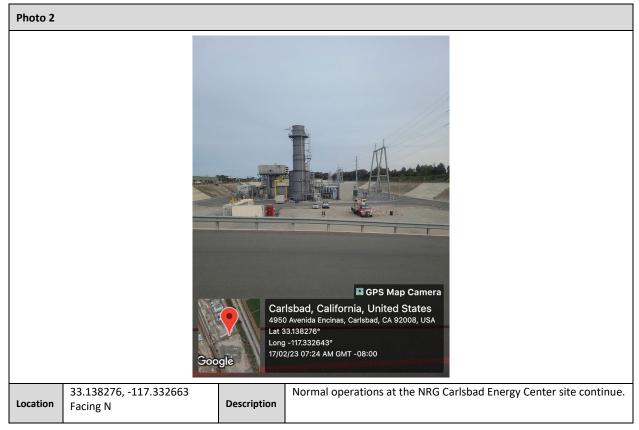
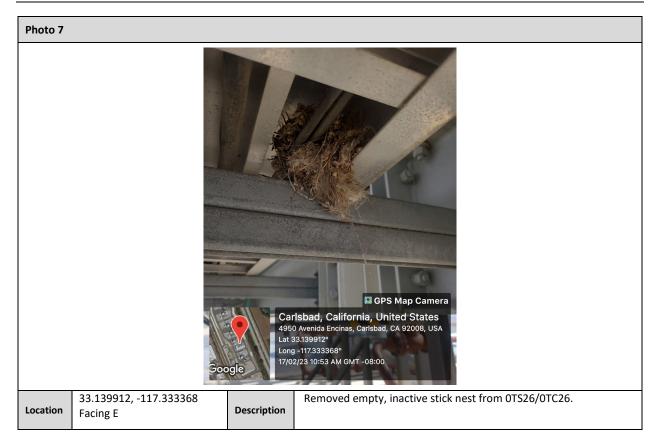


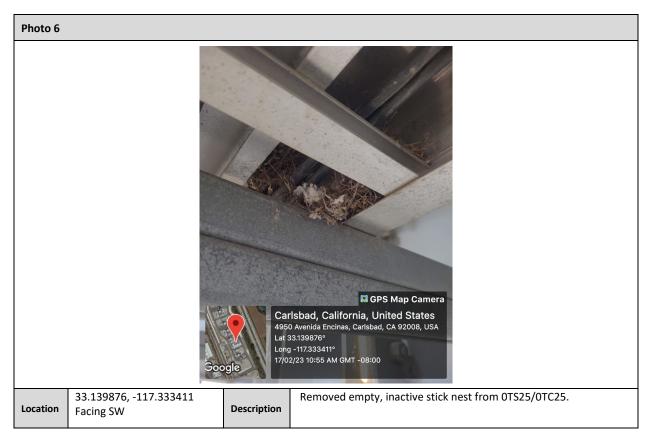
Photo 3			
		495 Lat Long	CPS Map Camera rtsbad, California, United States 0 Avenida Encinas, Carisbad, CA 92008, USA 33139537° 9 - 11733356° 2/23 09:47 AM GMT - 08:00
Location	33.139537, -117.33356 Facing NE	Description	Waste and recycle bins are installed in pairs throughout the project area to eliminate trash and encourage recycling.

Photo 4			
	Goo	Ave Lat Lon	GPS Map Camera thsbad, California, United States nida Encinas, Carlsbad, CA 92008, USA 33.141759° g -117.335495° 20/23 09:13 AM GMT -08:00
Location	33.141759, -117.335495 Facing E	Description	Storm drain covers at the project site prevent debris from entering the storm drain system.



Photo 6			
		Car 4950 Lat 3 Long	GPS Map Camera Hsbad, California, United States D Avenida Encinas, Carlsbad, CA 92008, USA 3313956° 1-117333474° 2/23 10:14 AM GMT - 08:00
Location	33.13956, -117.333474 Facing SW	Description	Removed empty, inactive stick nest from 10TS11/10TC11.





Carlsbad Energy Center (CEC) BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG - OPERATIONS

Date April 7, 202 Temperature (°F)	3		Monitor			Time (Begin-End)			
Temperature	3				Monitor				
			Nikki Bottu	0700-1230					
(1)	Humidity (%)	Wind (mph)	Precipitation (Y/N, amount)	Visibility		Weather Comment			
47 (am) 65 (pm)	72	3 WSW	Ν	10 mi	Partly cloudy all day				
Site Location(s)	<u> </u>								
CEC site									
Summary of Biolog	gical Resources	Monitoring O	bservations						
and nesting birds	s on the CEC s ds Observatio	ite.	rmined inactive in e		-	istraints, special-status species, on of site.			
 Observ 9TS11/ Observ weeks 	ved three activ '9TC11/9TI11, ved an adult fe to fledge.	ve house finc , and 7TS41/1 emale house	C41/TI41. A 25' but	x <i>icanus</i>) nests i ffer was put in to nest in cooli	n cooling fan st place around ea ng fan structure	e OTS26/OTC26. Estimated 3			
			+ weeks to fledge. cubating in cooling	fan structure 7	7TS41/TC41/TI4	1. Estimated 5 weeks to fledge			
Special-Status Sp									
• Double [WL]) v	e-crested corn was observed.	norant (<i>Nann</i>	•	California Depa	rtment of Fish a	: S) was observed. and Wildlife [CDFW]: Watch List			
 Long-b 	illed curlew (/	Numenius an	<i>ericanus</i> ; CDFW: W	L) was observe	ed.				
	Resources OI	bservations:							
Other Biological			een replaced with p						

Items Requiring Action/Follow-up

• Determination of nest status to be inactive before removal.

Wildlife Species Observed:

Allen's hummingbird (*Selasphorus sasin*), American crow (*Corvus brachyrhynchos*), Anna's hummingbird (*Calypte anna*), black phoebe (*Sayornis nigricans*), bushtit (*Psaltriparus minimus*), Canada goose (*Branta canadensis*), common raven (*Corvus corax*), double-crested cormorant, European starling (*Sturnus vulgaris*), great egret, house finch, long-billed curlew, mourning dove (*Zenaida macroura*), orange-crowned warbler (*Vermivora celata*), royal tern (*Thalasseus maximus*), song sparrow (*Melospiza melodia*), western fence lizard (*Sceloporus occidentalis*), western gull (*Larus occidentalis*), and yellowrumped warbler (*Setophaga coronata*).



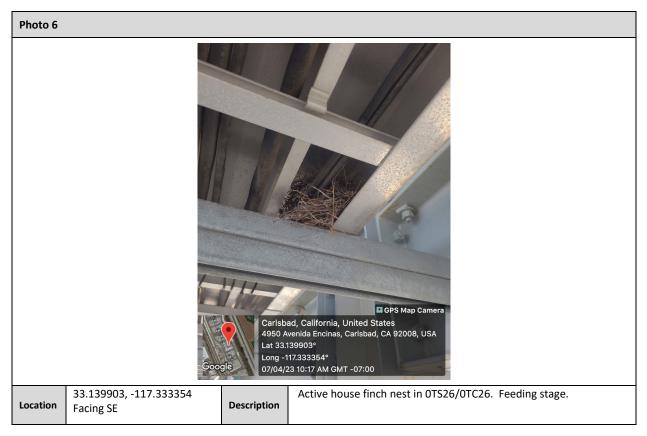
Photo 2

FIIOLO Z			
		4950 A Lat 33. Long -1	d CPS Map Camera ad, California, United States venida Encinas, Carlsbad, CA 92008, USA 139008° 17.333068° 23 09:00 AM GMT -07:00
	3.139008, -117.333068 acing NW	Description	Waste and recycle bins are installed in pairs throughout the project area to eliminate trash and encourage recycling.











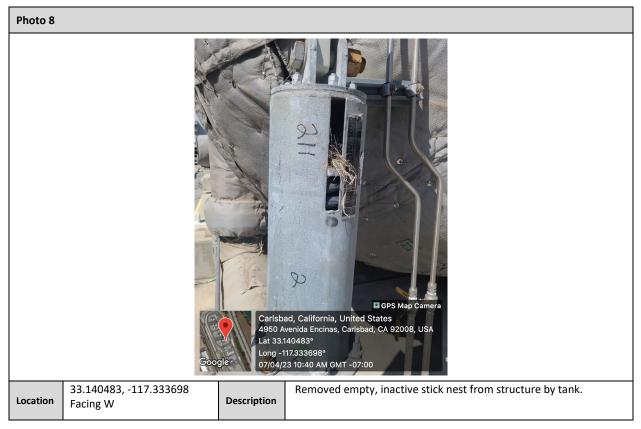


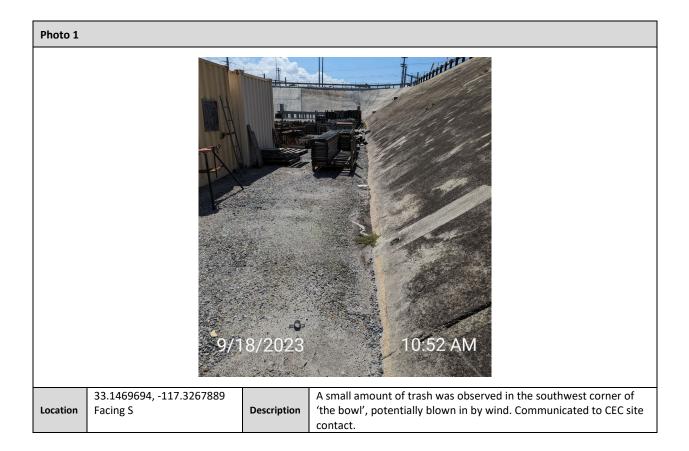


Photo 8			
	Goo	4950 A Lat 33.1 Long -1	e GPS Map Camera ad, California, United States venida Encinas, Carisbad, CA 92008, USA 41404° 17.33423° 23.1119 AM GMT -07:00
Location	33.140483, -117.333698 Facing W	Description	Removed empty, inactive stick nest from structure by tank.

Carlsbad Energy Center (CEC) BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG - OPERATIONS

COMPLIANCE MONITORING LOG - OPERATIONS							
Date			Monitor	Time (Begin-End)			
September 18, 2023			Kay Founta	ain	0830-1500		
Temperature (°F)			Precipitation (Y/N, amount)	Visibility	Weather Comment		
70	70	5	N	10 mi	0% cloud cover		
Site Location(s)							
CEC site							
Summary of Biolog	gical Resources	Monitoring C	bservations				
The Biological M and nesting birds Bird/Nesting Bir	s on the CEC s	ite.	cal resource monito	oring survey fo	or biological constraints, special-status species,		
No act	ive bird nests	or courtship	and nesting behavior	or was observe	ed during the monitoring event.		
 No active bird nests or courtship and nesting behavior was observed during the monitoring event. Special-Status Species Observed: An osprey (Pandion haliaetus; California Department of Forestry and Fire Protection [CDF]: Sensitive [S]; California Department of Fish and Wildlife [CDFW]: Watch List [WL]) was observed. American white pelicans (Pelecanus erythrorhynchos; United States Fish and Wildlife Service [USFWS]: Bird of Conservation Concern [BCC]; CDFW: Species of Special Concern [SSC]) were observed. California brown pelicans (Pelecanus occidentalis californicus; Bureau of Land Management [BLM]: S; U.S. Forest Service [USFS]: S) were observed. A northern harrier (Circus hudsonius; USFWS: BCC; CDFW: SSC) was observed. Sharp-shinned hawk (Accipiter striatus; CDFW: WL) was observed. Other Biological Resources Observations: No observations were noted. Other Observations/Comments: A small amount of trash was found behind some stockpiled materials in the northeast corner of 'the bowl' (Photo 1). Observations were communicated to the CEC site contact. 							
Items Requiring Action/Follow-up None.							
i itolic.							
Wildlife Species O	bserved:						
hummingbird (Co	alypte anna),	belted kingfi	sher (<i>Megaceryle al</i>	<i>lcyon</i>), black ph	nchos), American white pelican, Anna's hoebe (<i>Sayornis nigricans</i>), blue-gray • spider (<i>Araneus diadematus</i>), house finch		

(Haemorhous mexicanus), northern harrier, orange-crowned warbler (Vermivora celata), osprey, red-tailed hawk (Buteo jamaicensis), sharp-shinned hawk, song sparrow (Melospiza melodia), spiny-backed orbweaver spider (Gasteracantha cancriformis) turkey vulture (Cathartes aura), and western fence lizard (Sceloporus occidentalis).







Carlsbad Energy Center (CEC) BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG - OPERATIONS

Date Monitor Ti						Time (Begin-End)	
November 27, 2023 Kal Fountain				iin	0900-1430		
Temperature (°F) Humidity Wind Precipitation (%) (mph) (Y/N, amount)		Visibility		Weather Comment			
60	25	8	N	10 miles	0% cloud cove	er	
Site Location(s)							
CEC site							
Summary of Biolog	gical Resources	Monitoring O	bservations				
The Biological Mo and nesting birds Bird/Nesting Bird	on the CEC s	ite.	cal resource monito	ring survey for	biological const	traints, special-status species,	
-			and nesting behavio	or was observe	d during the mo	nitoring event.	
were o Seven A Species [BCC]) Califorr observe Other Biological No obs Other Observatio A file ca Biologic event. No tras	onarch butter bserved. American whi s of Special Co were observe hia brown pel ed. Resources O l ervations we ons/Commer abinet drawe cal Monitor c	flies (<i>Danaus</i> ite pelicans (<i>I</i> pocern [SSC]; ed. icans (<i>Peleca</i> bservations: re noted. ts: r was left ope losed the dra	Pelecanus erythrorhy United States Fish a nus occidentalis cal en with some sweet: wer and informed t	<i>unchos</i> ; Califori and Wildlife Ser <i>fornicus</i> ; Burea s inside, potent	nia Department rvice [USFWS]: E au of Land Mana tial wildlife attra	st Service [USFS]: Sensitive [S]) of Fish and Wildlife [CDFW]: Bird of Conservation Concern agement [BLM]: S; USFS: S) we	
Items Requiring Ac • None.	tion/Follow-u	p					
Wildlife Species Ob							

mourning dove (*Zenaida macroura*), painted lady (*Vanessa cardui*), red-tailed hawk (*Buteo jamaicensis*), song sparrow (*Melospiza melodia*), turkey vulture (*Cathartes aura*), western fence lizard (*Sceloporus occidentalis*), western gull (*Larus occidentalis*), and yellow-rumped warbler (*Setophaga coronata*).

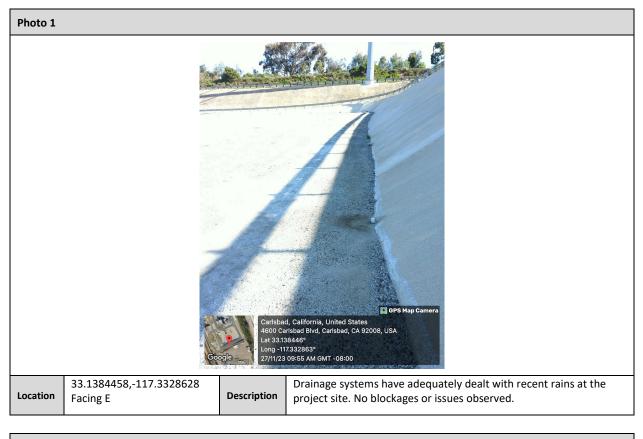


Photo 2						
Carisbady, California, United States California, United States California, United States Las 33385677 Lus 33385677						
	33.1385569,-117.3332828		File cabinet in Bowl was found open with candy inside;			
Location	Facing W	Description	potential wildlife attractant. Biological Monitor closed the			
			drawer and informed the site contact.			

Photos 3	Photos 3				
		4950 Aveni Lat 33.1388 Long -117.3			
Location	33.1388112,-117.33337 Facing W	Description	Safety, organization, and cleanliness BMPs were observed to be followed on site.		

Photo 4			
		4950 Aven Lat 33.139 Long -117.3	California, United States Ida Encinas, Carlsbad, CA 92008, USA
Location	33.139844,-117.333593 Facing E	Description	Trash cans held down and lids tightly fitted.





APPENDIX B OBSERVED WILDLIFE SPECIES LIST

	Observed Wildlife Species List 2023 Carlsbad Energy Center	
Common Name	Scientific Name	Status Federal/State/Other*
Birds		
Allen's hummingbird	Selasphorus sasin	//
American coot	Fulica americana	//
American crow	Corvus brachyrhynchos	//
American kestrel	Falco sparverius	//
American peregrine falcon	Falco peregrinus anatum	FD/SD/CDF:S
American white pelican	Pelecanus erythrorhynchos	BCC/SSC/
Anna's hummingbird	Calypte anna	//
Belted kingfisher	Megaceryle alcyon	//
Black phoebe	Sayornis nigricans	//
Blue-gray gnatcatcher	Polioptila caerulea	//
Bushtit	Psaltriparus minimus	//
California brown pelican	Pelecanus occidentalis californicus	FD/SD/BLM:S, USFS:S
California towhee	Melozone crissalis	//
Canada goose	Branta canadensis	//
Common raven	Corvus corax	//
Common yellowthroat	Geothlypis trichas	//
Double-crested cormorant	Nannopterum auritum	/WL/
European starling	Sturnus vulgaris	//
Great blue heron	Ardea herodias	//CDF:S
Great egret	Ardea alba	//CDF:S
House finch	Haemorhous mexicanus	//
Long-billed curlew	Numenius americanus	/WL/
Mourning dove	Zenaida macroura	//
Northern harrier	Circus hudsonius	BCC/SSC/
Orange-crowned warbler	Vermivora celata	//
Osprey	Pandion haliaetus	/WL/CDF:S
Red-tailed hawk	Buteo jamaicensis	//
Royal tern	Thalasseus maximus	//
Sharp-shinned hawk	Accipiter striatus	/WL/



Song sparrow	Melospiza melodia	//
Turkey vulture	Cathartes aura	//
Western gull	Larus occidentalis	//
White-crowned sparrow	Zonotrichia leucophrys	//
Yellow-rumped warbler	Setophaga coronata	//
Invertebrates	· · · · · ·	
Cross-orbweaver spider	Araneus diadematus	//
Monarch butterfly	Danaus plexippus	FC//USFS:S
Mourning cloak butterfly	Nymphalis antiopa	//
Painted lady butterfly	Vanessa cardui	//
Spiny-backed orbweaver spider	Gasteracantha cancriformis	//

Reptiles

Western fence lizard	Sceloporus occidentalis	//
----------------------	-------------------------	----

Source: California Department of Fish and Wildlife (CDFW). 2024. California Natural Diversity Database. January. Special Animals List. Periodic Publications. Accessed on 26 January 2024. Accessed from: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=109406&inline

Note:

Status Codes:

If status codes are not provided, it indicates that the observed species is not a special-status species.

Federal:

BCC = Birds of Conservation Concern

FC = Federal Candidate

FD = Federally Delisted

FE = Federally listed Endangered: species in danger of extinction throughout a significant portion of its range

FT = Federally listed Threatened: species likely to become endangered within the foreseeable future

State:

FP = Fully Protected

S = Sensitive

SD = State Delisted

SE = State listed as Endangered

SSC = California Species of Special Concern: Species of concern to CDFW because of declining population levels, limited ranges, and/or continuing threats have made them vulnerable to extinction.

ST = State listed as Threatened

WL = Watch List

*Other:

Bureau of Land Management (BLM): Sensitive (S)

California Department of Forestry and Fire Protection (CDF): Sensitive (S) - classifies "sensitive species" as those species that warrant special protection during timber operations.

U.S. Forest Service (USFS): Sensitive (S)





APPENDIX C WILDLIFE OBSERVATION FORMS

WILDLIFE OBSERVATION FORM
To Record Animals Found In Amended Carlsbad Energy Center Project
(Amended CECP) Work Areas
To be filled out by personnel who find active nest sites, dens, and dead or injured wildlife, or other biological resources during daily construction activities.
Name of employee: Scott Edwards
Date: 3/28/23 at 10:15 am
Location of observation: Bird was observed on the ground north of Unit 6 in the Bowl.
Wildlife Species: Common raven (Corvus corax)
Condition of wildlife:
alive dead X
Possible cause of injury or death: No visible injuries were observed, so
death seems to be natural causes.
Where is the animal currently?
Bird left in place while form was filled out and Designated Biologist (DB) was contacted. DB said bird could be disposed of, so bird was then placed in a garbage bag and disposed in the trash.
Is the resource in danger of project (or other) impacts? NA - Bird was dead
Comments:
Please contact the Designated Biologist for questions and to report any wildlife, nest, or den in the project
area that could be disturbed. The Designated Biologist will advise personnel on measures required by
California Department of Fish and Wildlife (CDFW) and United States Fish and Wildlife Service (USFWS) to protect fish, wildlife and vegetation from construction impacts.
DESIGNATED BIOLOGIST:
Melissa Fowler; Melissa.Fowler@erm.com; Cell: (714) 768-1173; Office (949) 623-4700
COMPANY: ERM-West, Inc.
ADDRESS: 1920 Main Street, Suite 300, Irvine, CA 92614

WILDLIFE OBSERVATION FORM
To Record Animals Found In Amended Carlsbad Energy Center Project
(Amended CECP) Work Areas
To be filled out by personnel who find active nest sites, dens, and dead or injured wildlife, or other biological resources during daily construction activities.
Name of employee: Roy Labayog
Date: 2 May 2023
Location of observation: Landing of the Unit 9 air intake unit.
Wildlife Species: House finch (Haemorhous mexicanus)
Condition of wildlife:
alive dead x
Possible cause of injury or death: Possible predation.
Where is the animal currently?
Bird was left in place while form was filled out and Designated Biologist (DB) was contacted. DB said bird could be disposed of, so bird was then placed in a garbage bag and disposed in the trash.
Is the resource in danger of project (or other) impacts?
NA - Bird was dead when first observed.
Comments:
Please contact the Designated Biologist for questions and to report any wildlife, nest, or den in the project area that could be disturbed. The Designated Biologist will advise personnel on measures required by California Department of Fish and Wildlife (CDFW) and United States Fish and Wildlife Service (USFWS) to protect fish, wildlife and vegetation from construction impacts.
DESIGNATED BIOLOGIST: Melissa Fowler; Melissa.Fowler@erm.com; Cell: (714) 768-1173; Office (949) 623-4700
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(Amended CECP) Work Areas
To be filled out by personnel who find active post sites, dons, and dead or injured wildlife, or other biological resources
To be filled out by personnel who find active nest sites, dens, and dead or injured wildlife, or other biological resources during daily construction activities.
Name of employee: Anthony Kalis
Date: 17 May 2023
Location of observation: Bird was found on the roof of the Unit 7 package.
Wildlife Species: American crow (Corvus brachyrhynchos)
Condition of wildlife:
alive dead X
Possible cause of injury or death: Unknown, no external trauma was observed.
Where is the animal currently?
Bird was left in place while form was filled out and Designated Biologist (DB) was contacted. DB said bird could be disposed of, so bird was then placed in a garbage bag and disposed in the trash.
Is the resource in danger of project (or other) impacts?
NA - Bird was dead when first observed.
Comments:
Please contact the Designated Biologist for questions and to report any wildlife, nest, or den in the project
area that could be disturbed. The Designated Biologist for questions and to report any wildine, nest, or den in the project area that could be disturbed. The Designated Biologist will advise personnel on measures required by California Department of Fish and Wildlife (CDFW) and United States Fish and Wildlife Service (USFWS) to protect fish, wildlife and vegetation from construction impacts.
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WILDLIFE OBSERVATION FORM
To Record Animals Found In Amended Carlsbad Energy Center Project
(Amended CECP) Work Areas
To be filled out by personnel who find active nest sites, dens, and dead or injured wildlife, or other biological resources during daily construction activities.
Name of employee: Hamid Hamidreza
Date: 18 May 2023
Location of observation: Bird was found on the west side of the Unit 8/9 switchyard.
Wildlife Species: American crow (Corvus brachyrhynchos)
Condition of wildlife:
alive dead X
Possible cause of injury or death: Unknown, no external trauma was observed.
Where is the animal currently?
Bird was left in place while form was filled out and Designated Biologist (DB) was contacted. DB said bird could be disposed of, so bird was then placed in a garbage bag and disposed in the trash.
Is the resource in danger of project (or other) impacts?
NA - Bird was dead when first observed.
Comments:
Disconsistent the Design stad Dislociet for exactions and to see at an utility and an in the ansist
Please contact the Designated Biologist for questions and to report any wildlife, nest, or den in the project area that could be disturbed. The Designated Biologist will advise personnel on measures required by California Department of Fish and Wildlife (CDFW) and United States Fish and Wildlife Service (USFWS) to protect fish, wildlife and vegetation from construction impacts.
DESIGNATED BIOLOGIST:
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WILDLIFE OBSERVATION FORM
To Record Animals Found In Amended Carlsbad Energy Center Project
(Amended CECP) Work Areas
To be filled out by personnel who find active nest sites, dens, and dead or injured wildlife, or other biological resources during daily construction activities.
Name of employee: Ryan Stewart
Date: 31 July 2023
Location of observation: Active nest with adult observed on the north side of Unit 10 at the MGTB cabinet, on top of the 10CTG-JB-001 junction box.
Wildlife Species: Mourning dove (Zenaida macroura)
Condition of wildlife:
alive X dead
Possible cause of injury or death: NA - no injury or death
Where is the animal currently?
Adult was observed on top of the active nest.
Is the resource in danger of project (or other) impacts?
No. Once observed, a 25' buffer zone was established around the nest to prevent disturbance or harm from project work.
Comments:
A 25' buffer zone was established around the nest and the site was monitored for
any changes. On 8 August 2023, the next was observed to have been destroyed
or raided by predators. No further activity was observed at that location.
Diagon contact the Designated Dialogist for questions and to report any wildlife next or day in the project
Please contact the Designated Biologist for questions and to report any wildlife, nest, or den in the project area that could be disturbed. The Designated Biologist will advise personnel on measures required by
California Department of Fish and Wildlife (CDFW) and United States Fish and Wildlife Service (USFWS) to
protect fish, wildlife and vegetation from construction impacts. DESIGNATED BIOLOGIST:
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WILDLIFE OBSERVATION FORM
To Record Animals Found In Amended Carlsbad Energy Center Project
(Amended CECP) Work Areas
To be filled out by personnel who find active nest sites, dens, and dead or injured wildlife, or other biological resources during daily construction activities.
Name of employee: Ryan Stewart
Date: 8 August 2023
Location of observation: Active nest with adult, egg, and hatchling observed on the Unit 10 CO2 bank.
Wildlife Species: Mourning dove (Zenaida macroura)
Condition of wildlife:
alive X dead
Possible cause of injury or death: NA - no injury or death
Where is the animal currently?
Adult, egg, and live hatchling were observed at the nest.
Is the resource in danger of project (or other) impacts?
No. Once observed, a 25' buffer zone was established around the nest to prevent disturbance or harm from project work.
Comments:
A 25' buffer zone was established around the nest and the site was monitored for any changes.
Please contact the Designated Biologist for questions and to report any wildlife, nest, or den in the project
area that could be disturbed. The Designated Biologist will advise personnel on measures required by
California Department of Fish and Wildlife (CDFW) and United States Fish and Wildlife Service (USFWS) to protect fish, wildlife and vegetation from construction impacts.
DESIGNATED BIOLOGIST:
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WILDLIFE OBSERVATION FORM
To Record Animals Found In Amended Carlsbad Energy Center Project
(Amended CECP) Work Areas
To be filled out by personnel who find active nest sites, dens, and dead or injured wildlife, or other biological resources during daily construction activities.
Name of employee: Ryan Stewart
Date: 8 August 2023
Location of observation: Active nest with adult and egg observed on the Unit 8 CO2 bank.
Wildlife Species: Mourning dove (Zenaida macroura)
Condition of wildlife:
alive X dead
Possible cause of injury or death: NA - no injury or death
Where is the animal currently?
Adult and egg were observed at the nest.
Is the resource in danger of project (or other) impacts?
No. Once observed, a 25' buffer zone was established around the nest to prevent disturbance or harm from project work.
Comments: A 25' buffer zone was established around the nest and the site was
monitored for any changes. On 14 August 2023, the nest was observed to be abandoned.
Egg appears to have fallen through the metal openings and egg shell pieces were observed
on the ground. No adults were observed around the area and the inactive nest was removed with Designated Biologist permission.
Please contact the Designated Biologist for questions and to report any wildlife, nest, or den in the project
area that could be disturbed. The Designated Biologist of questions and to report any wildine, nest, or den in the project
California Department of Fish and Wildlife (CDFW) and United States Fish and Wildlife Service (USFWS) to
protect fish, wildlife and vegetation from construction impacts. DESIGNATED BIOLOGIST:
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ERM HAS OVER 160 OFFICES ACROSS THE FOLLOWING COUNTRIES AND TERRITORIES WORLDWIDE

Argentina	The Netherlands	ERM's Irvine Office
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Germany	Singapore	
Ghana	South Africa	
Guyana	South Korea	
Hong Kong	Spain	
India	Switzerland	
Indonesia	Taiwan	
Ireland	Tanzania	
Italy	Thailand	
Japan	UAE	
Kazakhstan	UK	
Kenya	US	
Malaysia	Vietnam	
Mexico		
Mozambique		

Attachment B HAZ-1: Hazardous Materials Business Plan

California Environmental Reporting System (CERS)

Site Identification

Carlsbad Energy Center Projec	
	4950 Avenida Encinas
	Carlsbad, CA 92008
	County

Submittal Status

San Diego

Submitted on 2/9/2023 by Ryan Stewart of Carlsbad Energy Center Project (Carlsbad, CA)

Submittal was *Accepted*; Processed on 2/21/2023 by *Manon Maschue* for San Diego County Department of Environmental Health and Quality Comments by regulator: Thank you for your submittal. I am accepting this submittal based on completeness. However, be advised that all information submitted will be verified during field inspections, and that it is your responsibility to ensure that all reported information is accurate. For questions: Manon.Maschue@sdcounty.ca.gov, 858-518-7390 or the CERS Help Desk: 858-505-6990.

Hazardous Materials

Does your facility have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or is regulated under more restrictive inventory local reporting requirements (shown below if present); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?

Underground Storage Tank(s) (UST)

Does your facility own or operate underground storage tanks?

Hazardous Waste	
s your facility a Hazardous Waste Generator?	Yes
Does your facility treat hazardous waste on-site?	No
s your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	No
Does your facility consolidate hazardous waste generated at a remote site?	No
Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?	No
Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate n any single calendar month greater than 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.	Νο
s your facility a Household Hazardous Waste (HHW) Collection site?	No

Excluded and/or Exempted Materials

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	No
Aboveground Petroleum Storage	
Does your facility own or operate aboveground petroleum storage tanks or containers AND: * have a total aboveground petroleum storage capacity of 1,320 gallons or more, OR	Yes

* have one or more petroleum tanks in an underground area?

Regulated Substances

Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental **Yes** Release prevention Program (CalARP)?

Additional Information

No additional comments provided.

Business Activities

CERS ID 10765651

EPA ID Number CAR000256545

No

Print	ed on 3/23	3/2023 9:	56 AM	

Carlsbad, CA 92008

Identification					
NRG Energy Services			Beginning Date	Ending Date	
Operator Phone	Business Phone	Business Fax			
760) 710-3950	(760) 710-3950		Dun & Bradstreet	SIC Code	Primary NAICS
Facility/Site Mailing	Address		Primary Emergency	Contact	
4950 Avenida Encinas			Control Room		
CARLSBAD, CA 92008-43	301		Title		
			Control Room		
			Business Phone	24-Hour Phone	Pager Number
			(760) 710-3950	(760) 710-3950	
Dwner			Secondary Emergend	cy Contact	
Carlsbad Energy Center			Paul Mattesich		
(760) 710-3945			Title		
4950 Avenida Encinas			Plant Manager		
Carlsbad, CA 92008			Business Phone	24-Hour Phone	Pager Number
			(760) 710-3945	(805) 616-5836	
Billing Contact			Environmental Conta	act	
David Brown			Ryan Stewart		
(760) 710-3952	david.brown1@nrg.c	om	(760) 710-3943	Ryan.Stewart@nrg.	com
4950 Avenida Encinas			4950 Avenida Encinas		
CARLSBAD, CA 92008			CARLSBAD, CA 92008		
Name of Signer		Signer Title		Document Prepare	er
Paul Mattesich		Plant Manag	ger	Paul Mattesich	
Additional Information					
Updated to add Ryan St	ewart as the Environmenta	al site contact.			
Locally-collected Fiel	de				
•		l by your local regulator(s).			
	mig neius may be required	i by your local regulator(s).			
Property Owner			Assessor Parcel Number	(APN)	
Carlsbad Energy Cent	er		210-010-47-00		
Phone			Number of Employees		
(760) 710-3950			18		
Mailing Address			Facility ID		
4950 Avenida Encinas	5		37-000-004698		

California Environmental Reporting System (CERS)

Submitted on 2/9/2023 by Ryan Stewart of Carlsbad Energy Center Project (Carlsbad, CA)

Manon.Maschue@sdcounty.ca.gov, 858-518-7390 or the CERS Help Desk: 858-505-6990.

Submittal was Accepted; Processed on 2/21/2023 by Manon Maschue for San Diego County Department of Environmental Health and Quality

be verified during field inspections, and that it is your responsibility to ensure that all reported information is accurate. For questions:

Comments by regulator: Thank you for your submittal. I am accepting this submittal based on completeness. However, be advised that all information submitted will

Facility/Site

Submittal Status

Carlsbad Energy Center Project
4950 Avenida Encinas
Carlsbad, CA 92008

CERS ID 10765651

Business Owner Operator

			Hazardou	s Materials	And Wastes	s Inventory	y Matrix I	Report						
CERS Business/Org. Facility Name	Carlsbad E	nergy Center Project nergy Center Project a Encinas, Carlsbad 92008	nter Project							CERS ID 10765651 Facility ID 37-000-004698 Status Submitted on 2/9/2023 2:06 PM				
					Quantities		Annual Waste	Federal Hazard		Hazardous Component (For mixture only)				
DOT Code/Fire Haz. (Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.			
DOT: 8 - Corrosives Solids)	s (Liquius and	Corrshield MD4100	Liquid P Type	75 torage Container lastic/Non-metali	5 ic Drum	55 Pressue Ambient Temperature Ambient	Waste Code	- Physical Corrosive To Metal - Health Carcinogenicity - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity	Sodium Nitrite	20%	7632-00-0			
DOT: 3 - Flammabl Combustible Liquic Combustible Liquic	ls	Diesel Fuel, #2 <u>CAS No</u> 68334-30-5	Liquid S ^I Type	600 torage Container teel Drum, Can ays on Site: 365	500	500 Pressue Ambient Temperature Ambient		 Physical Flammable Health Carcinogenicity Health Acute Toxicity Health Skin Corrosion Irritation Health Serious Eye Damage Eye Irritation 						
DOT: 3 - Flammabl Combustible Liquic Flammable Liquid,	ls	Gasoline CAS No 86290-81-5	Liquid C Type	200 corage Container an ays on Site: 365	5	100 Pressue Ambient Temperature Ambient	Waste Code	- Physical Flammable						

			Hazardo	ous Materials	And Waste	s Inventory	y Matrix I	Report				
		nergy Center Project nergy Center Project			Chemical Loca	tion			CERS ID 10765 Facility ID 37-00		18	
49	950 Avenida	Encinas, Carlsbad 92008							Status Submit	t ed on 2/9	9/2023 2:06 PM	
					Quantities		Annual Waste	aste Federal Hazard	Hazardous Components (For mixture only)			
DOT Code/Fire Haz. Class		Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.	
DOT: 8 - Corrosives (Li	iquids and	Lead Acid Batteries	Gallons	s 195	13	195		- Physical	Sulfuric Acid	30%	7664-93-9 🗸	
Solids)		CAS No	State Liquid	Storage Container Other		Pressue Ambient	Waste Code	. ,	Lead	70%	7439-92-1	
Corrosive			Туре			Temperature		Explosive				
			Mixture	Days on Site: 365		Ambient		- Health Carcinogenicity				
								- Health Acute				
								Toxicity				
								- Health				
								Reproductive				
								Toxicity - Health Skin				
								- Health Skin Corrosion				
								Irritation				
								- Health Serious				
								Eye Damage Eye				
								Irritation				
								- Health Specific				
								Target Organ				
OOT: 2.1 - Flammable	Casas		<u> </u>					Toxicity - Physical				
	Gases	Liquefied Petroleum Gas (lpg)	Gallons		5	25	Waste Code					
lammable Gas		CAS No	State Gas	Storage Container Cylinder		Pressue > Ambient	waste Code	- Physical Gas				
		74-98-6		Cymruer		Temperature		, Under Pressure				
			Type Pure	Days on Site: 365		Ambient			-			
DOT: 9 - Misc. Hazardo	ous	Natural Gas Knockout Tank Oil	Gallons		55	200	800	- Health	Benzene	0%	71-43-2	
Materials		Waste	State	Storage Container		Pressue	Waste Code	Carcinogenicity				
		CAS No	Liquid _	Aboveground Tank Tank Wagon	k, Steel Drum,	Ambient	331					
			Type Waste	Talik Wagoli		Temperature Ambient						
OOT: 2.2 - Nonflamma	able Gases	Nitrogen	Cu. Fee		304	3600		- Physical Gas				
		CAS No	State	Storage Container		Pressue	Waste Code	Under Pressure				
		7727-37-9	Gas	Cylinder		> Ambient						
			Type Pure	Days on Site: 365		Temperature Ambient						
		Simple Green	Gallons	1	330	220			C9-11 Alcohols Ethoxylated	5%	68439-46-3	
			State	Storage Container		Pressue	Waste Code		Sodium Citrate	5%	68-04-2	
		CAS No	Liquid	Tote Bin		Ambient			Sodium Carbonate	1%	497-19-8	
			Туре			Temperature			Citric Acid	1%	77-92-9	
				Days on Site: 365		Ambient			Tetrasodium Glutamate Diacet		51981-21-	

		H	lazardo	ous Materials A	And Waste	s Inventory	y Matrix	Report				
acility Name	Carlsbad E	nergy Center Project nergy Center Project Encinas, Carlsbad 92008	Chemical Location						CERS ID 10765651 Facility ID 37-000-004698 Status Submitted on 2/9/2023 2:06 P			
OT Code/Fire Haz. Clas		Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard	Hazardous Co (For mixtu Component Name	•	EHS CAS No.	
OT: 2.2 - Nonflamm		CARBON DIOXIDE, COMPRESSED GAS CAS No 124-38-9	Cu. Fee State Gas Type	,	143	400 Pressue > Ambient Temperature Ambient		Categories - Physical Gas ode Under Pressure		20 aa t		
		Nytro 11 GBXUS Transformer Oil	State Liquid Type	s 49000 Storage Container Aboveground Tank Days on Site: 365	9062	49000 Pressue Ambient Temperature Ambient	" Waste Code	- Health Skin Corrosion - Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	Hydrotreated Light Naphthenic Distillate Hydrotreated Middle Naphthenic Distillate Solvent-dewaxed light paraffinic 2,6-ditertiary butyl-4-methyl phenol	60% 40% 40% 0%	64742-53-6 64742-46-7 64742-56-9 128-37-0	

		Hazardous	Materials	And Waste	s Inventory	/ Matrix	Report			
Facility Name Carlsbad	Energy Center Project Energy Center Project da Encinas, Carlsbad 92008			Chemical Loca		s through	nout Facility		10765651 37-000-00469 Submitted on 2/9	-
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Status Component Name	Hazardous Component (For mixture only) % Wt	
DOT: 2.2 - Nonflammable Gases	Sulfur Hexafluoride CAS No 2551-62-4	Gas Ot Type	2951 prage Container ther ays on Site: 365	575	2951 Pressue > Ambient Temperature > Ambient		- Physical Gas le Under Pressure - Health Simple Asphyxiant			

		Hazardoı	us Materials A	And Waste	s Inventory	y Matrix	Report			
Facility Name Carlsbad	Energy Center Project Energy Center Project da Encinas, Carlsbad 92008			Chemical Loca Ammonia				CERS ID Facility I Status	10765651 37-000-004698 Submitted on 2/9	
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	s EHS CAS No.
DOT: 2.2 - Nonflammable Gases		Gallons State S Liquid A Type	15000 Itorage Container Aboveground Tank Days on Site: 365	16067	15000 Pressue Ambient Temperature Ambient	Waste Code	- Health Skin	Ammonia	19%	7664-41-7

		Hazardou	us Materials	And Waste	s Inventor	y Matrix	Report			
Facility Name	Carlsbad Energy Center Project Carlsbad Energy Center Project 4950 Avenida Encinas, Carlsbad 92008			Chemical Loca Fuel Gas (ation Compressor	ſS		Facility ID	10765651 37-000-004698 Submitted on 2/9/	
DOT Code/Fire Haz. C	Class Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories		azardous Components (For mixture only) % Wt	EHS CAS No.
	SAE 40 wt Engine Oil - Compressors CAS No	Liquid C Type	275 Storage Container Other Days on Site: 365	55	220 Pressue Ambient Temperature Ambient	Waste Cod	- Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	1-DECENE, HOMOPOLY HYDROGENATED TRIPHENYL PHOSPHATE		68037-01-4 115-86-6

CERS Business/Org. Facility Name	Carlsbad Energy Center Project Carlsbad Energy Center Project 4950 Avenida Encinas, Carlsbad 92008			Chemical Loca Hazardou	ation Is Waste Sto	orage Area	I	Facility ID 3	0765651 7-000-004698 ubmitted on 2/9	
				Quantities		Annual Waste	Federal Hazard	Haza	ardous Component For mixture only)	
DOT Code/Fire Haz. C		Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
DOT: 3 - Flammable	WIISC ACTOSOIS WASLE	Pounds	100	100	20	25	- Physical			
Combustible Liquid	CAS No	State	Storage Container		Pressue		Flammable			
		Liquid	Steel Drum		Ambient		- Physical Gas			
Flammable Liquid,	Class I-B	Туре			Temperature	352	Under Pressure			
		Waste	Days on Site: 365		Ambient		- Health Skin			
							Corrosion Irritation			
							- Health Serious			
							Eye Damage Eye			
							Irritation			
							- Health			
							Aspiration Hazard			
DOT: 9 - Misc. Haza	rdous USED OIL	Gallons	165	55	110	165	- Health Hazard	Waste Petroleum Hydroc	arbons	Mixture
Materials	CAS No	State	Storage Container		Pressue		Not Otherwise			
	CASINO		Steel Drum		Ambient	Waste Code	Classified			
		Туре			Temperature	221				
		Waste	Days on Site: 365		Ambient					
DOT: 9 - Misc. Haza	rdous Used Oil With Benzene	Gallons	165	55	55	495	- Health	Waste Petroleum Hydroc	arbons 98%	Mixture
Materials			Storage Container		Pressue		Carcinogenicity			
	CAS No		Steel Drum		Ambient	Waste Code	- Health Hazard	Benzene	2%	71-43-2
		Туре			Temperature	221	Not Otherwise			
			Days on Site: 365		Ambient		Classified			
DOT: 9 - Misc. Haza	rdous Waste Air Filters	Pounds	500	500	500	500	- Health Hazard			
Materials	Waste An Thers		Storage Container	500	Pressue	500	Not Otherwise			
	CAS No		Box		Ambient	Waste Code	Classified			
		Туре			Temperature	352				
			Days on Site: 90		Ambient					
OT: 3 - Flammable	and Waste Lab Pack	Pounds	20	20	20	20	- Physical			
Combustible Liquid			Storage Container	20	Pressue	20	Flammable			
	CAS No		Plastic/Non-metali	c Drum	Ambient	Waste Code				
Flammable Liquid,	Class I-A	Туре	. astic, non metall		Temperature	551	***			
			Days on Site: 90		Ambient					
OOT: 9 - Misc. Haza	rdous Waste Oil Filters	Pounds	800	800	500	1500	- Health Hazard			
Materials	waste on Thters		Storage Container	000	Pressue	1300	Not Otherwise			
	CAS No		Box		Ambient	Waste Code				
		Туре			Temperature	352				
		TAbe			remperature					

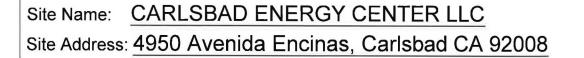
	1	Hazardo	us Materials A	And Waste	s Inventory	Matrix	Report				
CERS Business/Org. Carlsbad Energy Center Project Facility Name Carlsbad Energy Center Project 4950 Avenida Encinas, Carlsbad 92008			Chemical Location Hazardous Waste Storage Area						CERS ID 10765651 Facility ID 37-000-004698 Status Submitted on 2/9/2023 2:06 PM		
DOT Code/Fire Haz. Class DOT: 9 - Misc. Hazardous Materials DOT: 9 - Misc. Hazardous Materials	Common Name Waste Oil Filters with Benzene CAS No WASTE OILY DEBRIS CAS No	Solid Type Waste Pounds State Solid	Max. Daily 500 Storage Container Box Days on Site: 90 800 Storage Container Steel Drum	Quantities Largest Cont. 500 150	Avg. Daily 500 Pressue Ambient Temperature Ambient 300 Pressue Ambient	Annual Waste Amount 500 Waste Code 352 2000 Waste Code 352	Federal Hazard Categories - Health Carcinogenicity - Health Hazard Not Otherwise Classified - Health Hazard Not Otherwise Classified	Component Name Benzene	Hazardous Components (For mixture only) % Wt EHS CAS No. 2% 71-43-2		
DOT: 9 - Misc. Hazardous Materials	Waste Oily Debris with Benzene	Pounds State Solid State	Days on Site: 365 450 Storage Container Steel Drum Days on Site: 365	150	Temperature Ambient 150 Pressue Ambient Temperature Ambient	1000 Waste Code 181	- Health Carcinogenicity - Health Hazard Not Otherwise Classified	Oil with Benzene	10%		
	Waste Oily Water	Liquid Type	330 Storage Container Steel Drum Days on Site: 180	55	55 Pressue Ambient Temperature Ambient	1300 Waste Code 223	- Health Hazard Not Otherwise Classified	Water Oil			
DOT: 4.1 - Flammable Solids Flammable Solid	Waste Paint Debris	Solid Type	250 Storage Container Steel Drum, Fiber D Days on Site: 180	250 Drum	100 Pressue Ambient Temperature Ambient	500 Waste Code 331	- Physical Flammable				
	Waste Spent Dessicant	Pounds State S Solid Type	10 Storage Container Plastic/Non-metali Days on Site: 90	10 c Drum	5 Pressue Ambient Temperature Ambient	15 Waste Code	- Health Hazard Not Otherwise Classified				

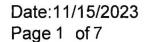
		Hazardoı	us Materials A	And Waste	s Inventory	y Matrix I	Report			
CERS Business/Org. Facility Name						CERS ID 10765651 Facility ID 37-000-004698 Status Submitted on 2/9/2023 2:06 PM				
DOT Code/Fire Haz. C	lass Common Name Hydraulic Lube Oil CAS No	Liquid S Type	Max. Daily 500 Storage Container Steel Drum, Other Days on Site: 365	Quantities Largest Cont. 55	Avg. Daily 330 Pressue Ambient Temperature Ambient	Annual Waste Amount Waste Code	Federal Hazard Categories - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Hazard Not Otherwise Classified	Hazardous C (For mixte Component Name 2,6-DI-TERT-BUTYL-P-CRESOL NAPHTHALENESULFONIC ACID, DINONYL-, CALCIUM PHOSPHORODITHIOIC ACID, MIXED 0,0-BIS(2-ETHYL	•	EHS CAS No. 128-37-0 57855-77-3 68442-22-8
DOT: 3 - Flammable Combustible Liquid		Liquid S Type	48000 Storage Container Steel Drum, Other Days on Site: 365	7400	46000 Pressue Ambient Temperature Ambient	Waste Code	- Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	2,6-DI-TERT-BUTYLPHENOL	1%	128-39-2
Combustible Liquid	Synthetic Lube Oil , Class II CAS No	Liquid S Type	2000 Storage Container Steel Drum, Other Days on Site: 365	195	1500 Pressue Ambient Temperature Ambient	Waste Code	 Physical Hazard Not Otherwise Classified Health Hazard Not Otherwise Classified 	N-PHENYL-1-NAPHTHYLAMINE 9,10-ANTHRACENEDIONE, 1,4- DIHYDROXY- ALKYLATED DIPHENYL AMINES TRICRESYL PHOSPHATE	1% 0% 5% 3%	90-30-2 81-64-1 68411-46-1 1330-78-5

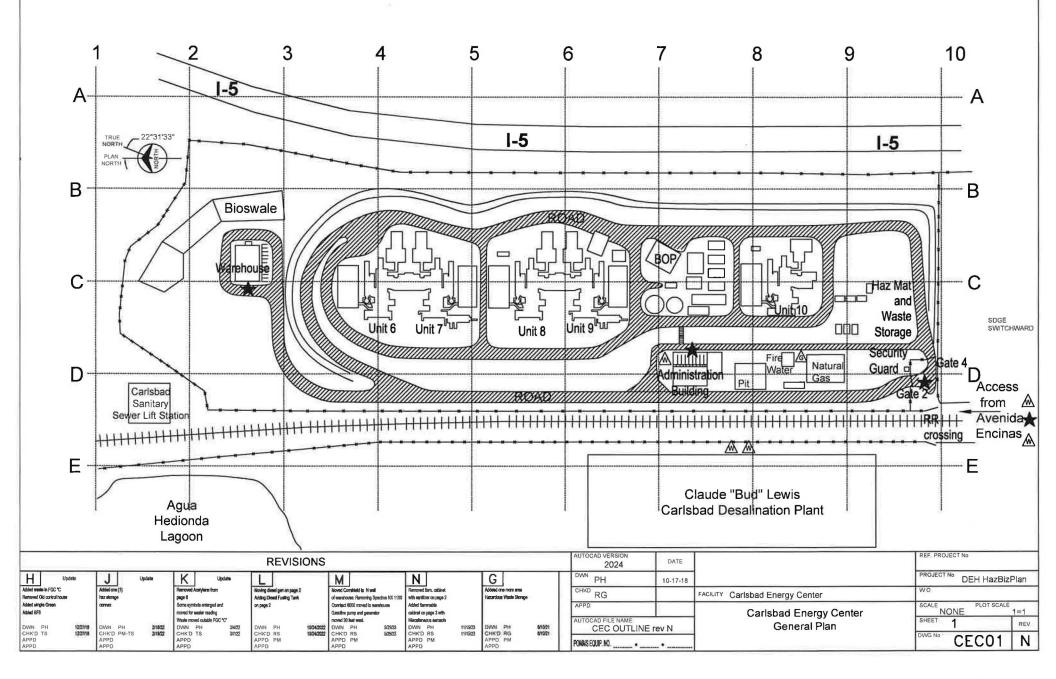
		Hazardous N	Aaterials A	And Waste	s Inventory	/ Matrix I	Report			
ERS Business/Org.	Carlsbad Energy Center Project			Chemical Loca	ition			CERS ID	10765651	
acility Name	Carlsbad Energy Center Project			Unit CEM	S, Compress	ed Gas St	orage	Facility	D 37-000-004698	1
	4950 Avenida Encinas, Carlsbad 92008							Status	Submitted on 2/9/	2023 2:06 PM
						Annual			Hazardous Components	5
OT Code/Fire Haz. (Class Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Waste Amount	Federal Hazard Categories	Component Name	(For mixture only) % Wt	EHS CAS No.
	CEMS GAS, CO	Cu. Feet	3840	240	1920		- Physical	Carbon Monoxide	0%	630-08-0
			ge Container	240	Pressue	Waste Code	Flammable	Nitrogen	100%	7727-37-9
	CAS No	Gas Cylind	ō		> Ambient		- Physical Gas	Nitric Oxide	0%	🖌 10102-43-9
		Туре			Temperature		Under Pressure			
		Mixture Days	on Site: 365		Ambient		- Health Acute Toxicity			
							- Health			
							Reproductive			
							Toxicity			
							- Health Specific			
							Target Organ			
							Toxicity - Health Simple			
							Asphyxiant			
	CEMS GAS, NO	Cu. Feet	3840	240	2400		- Physical Gas	Nitrogen	100%	7727-37-9
	CAS No		ge Container		Pressue	Waste Code	Under Pressure	Nitric Oxide	0%	🖌 10102-43-9
	CAS NO	Gas Cylind			> Ambient		- Physical Oxidizer	Carbon Monoxide	0%	630-08-0
		Туре			Temperature		- Health Skin			
		Mixture Days	on Site: 365		Ambient		Corrosion			
							Irritation			
							- Health Serious			
							Eye Damage Eye			
							Irritation			
							- Health Specific			
							Target Organ Toxicity			
	CEMS GAS, O2	Cu. Feet	3840	240	2400		- Physical Gas	Nitrogen	80%	7727-37-9
	CAS No		ge Container	-	Pressue	Waste Code	Under Pressure	Oxygen	20%	7782-44-7
	CASINO	Gas Cylind			> Ambient					
		Туре			Temperature					
		Mixture Days	on Site: 365		Ambient					

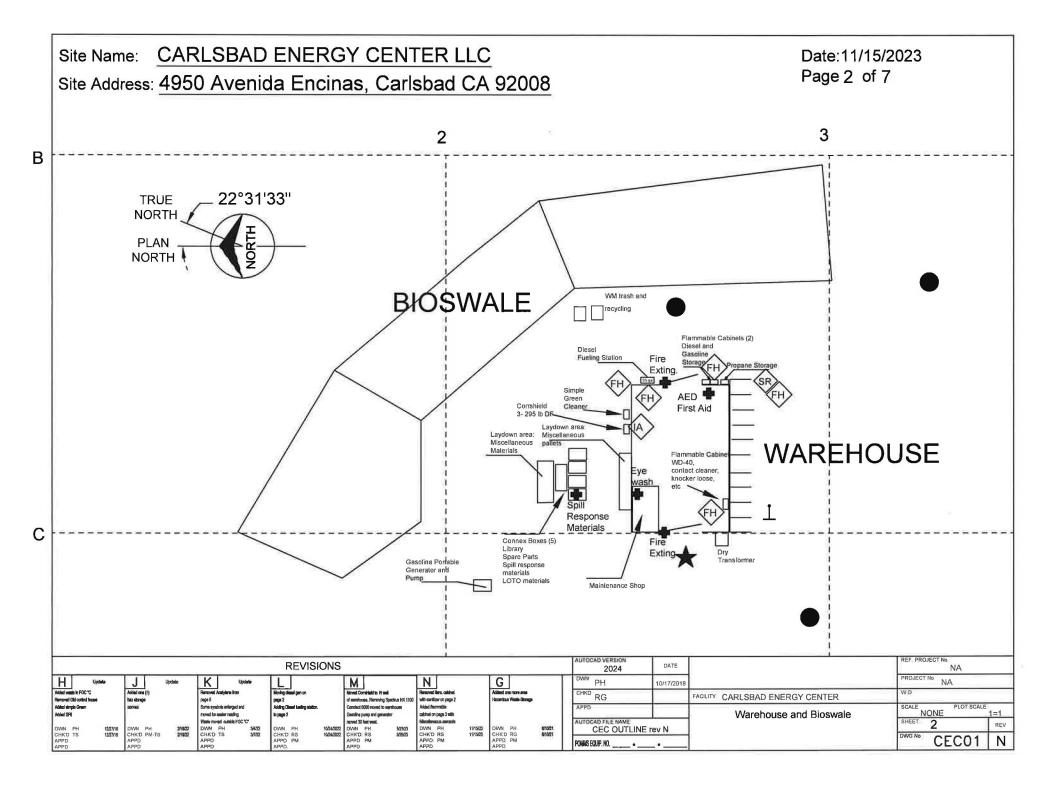
Hazardous Materials And Wastes Inventory Matrix Report										
Facility Name Carlsbad E	nergy Center Project nergy Center Project a Encinas, Carlsbad 92008			Chemical Loca Water Tar				CERS ID Facility IE Status	10765651 37-000-004698 Submitted on 2/9	
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	EHS CAS No.
DOT: 8 - Corrosives (Liquids and Solids) Corrosive, Oxidizing, Class 2	Sodium Hypochlorite 12.5% CAS No 7681-52-9	Gallons State St Liquid T Type	2310 torage Container ote Bin, Other hays on Site: 365	330	1320 Pressue Ambient Temperature Ambient		- Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	Sodium Hypochlorite	13%	7681-52-9

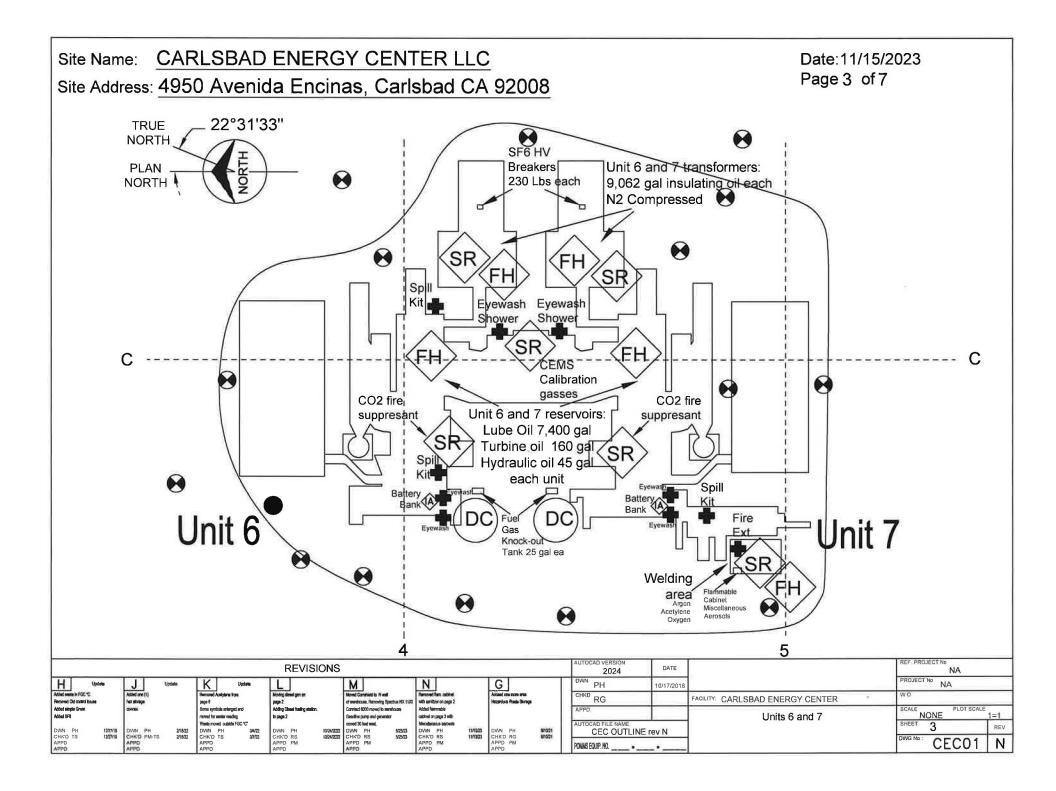
Hazardous Materials And Wastes Inventory Matrix Report										
CERS Business/Org. Carlsbad Facility Name Carlsbad 4950 Avenie		Chemical Location Welding Area						CERS ID 10765651 Facility ID 37-000-004698 Status Submitted on 2/9/2023 2:06 PM		
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories		Hazardous Componen (For mixture only) % Wt	-
DOT: 2.1 - Flammable Gases Jnstable (Reactive), Class 2, Flammable Gas	Acetylene <u>CAS No</u> 74-86-2	Gas Cy Type	435 prage Container linder ays on Site: 365	145	145 Pressue > Ambient Temperature Ambient	Waste Code	- Physical Flammable - Physical Gas Under Pressure			
OT: 2.2 - Nonflammable Gases	Argon Compressed CAS No 7440-37-1	Gas Cy Type	732 prage Container /linder ays on Site: 365	244	244 Pressue > Ambient Temperature Ambient	Waste Code	- Physical Gas Under Pressure			
DOT: 2.2 - Nonflammable Gases Dxidizing, Class 2	Oxygen Gas <u>CAS No</u> 7782-44-7	Gas Cy Type	732 prage Container /linder ays on Site: 365	244	244 Pressue > Ambient Temperature Ambient	Waste Code	- Physical Gas Under Pressure - Physical Oxidize	r		

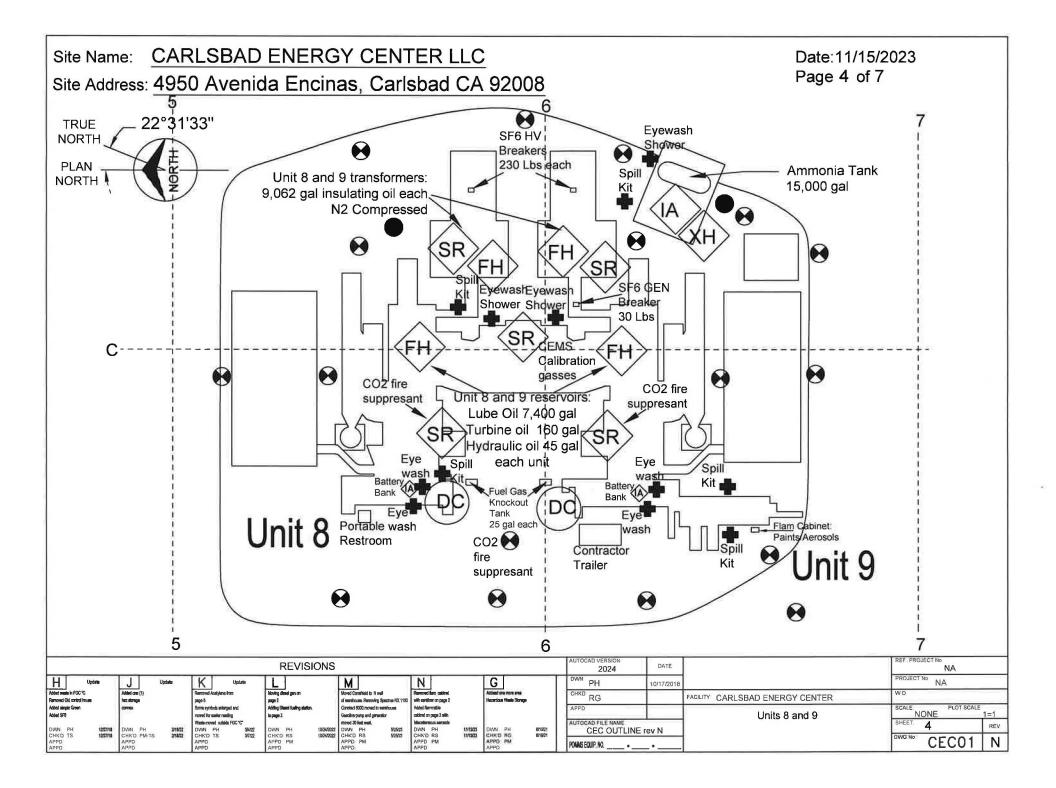


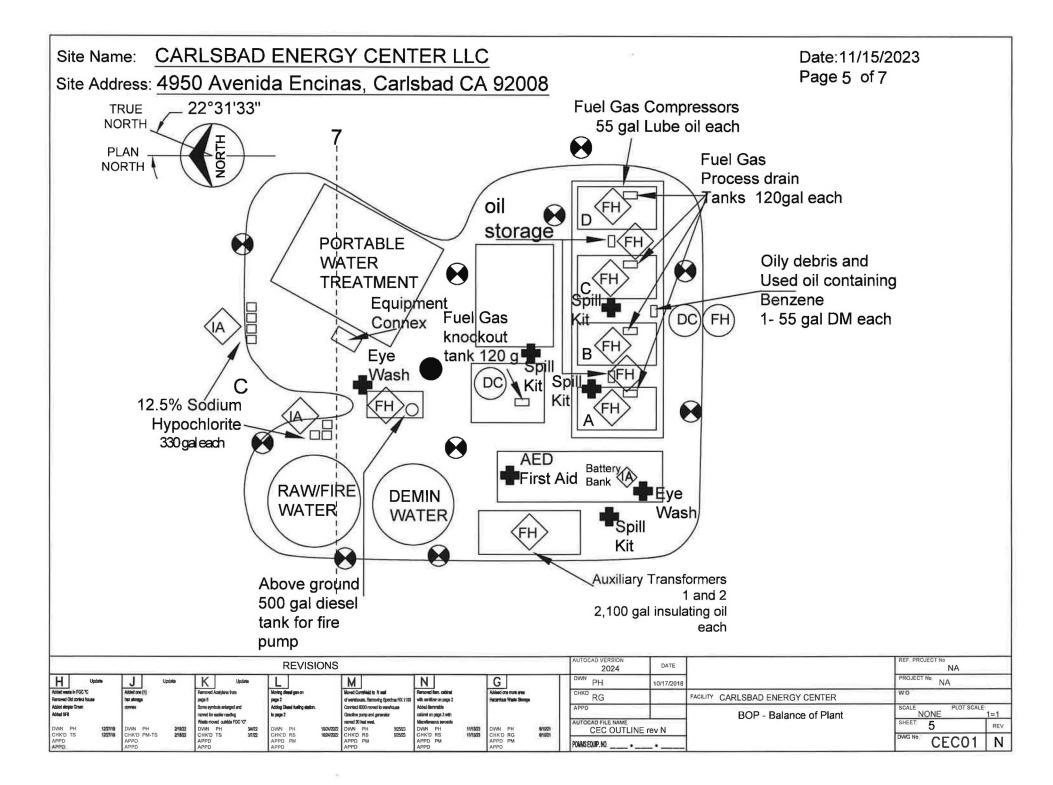


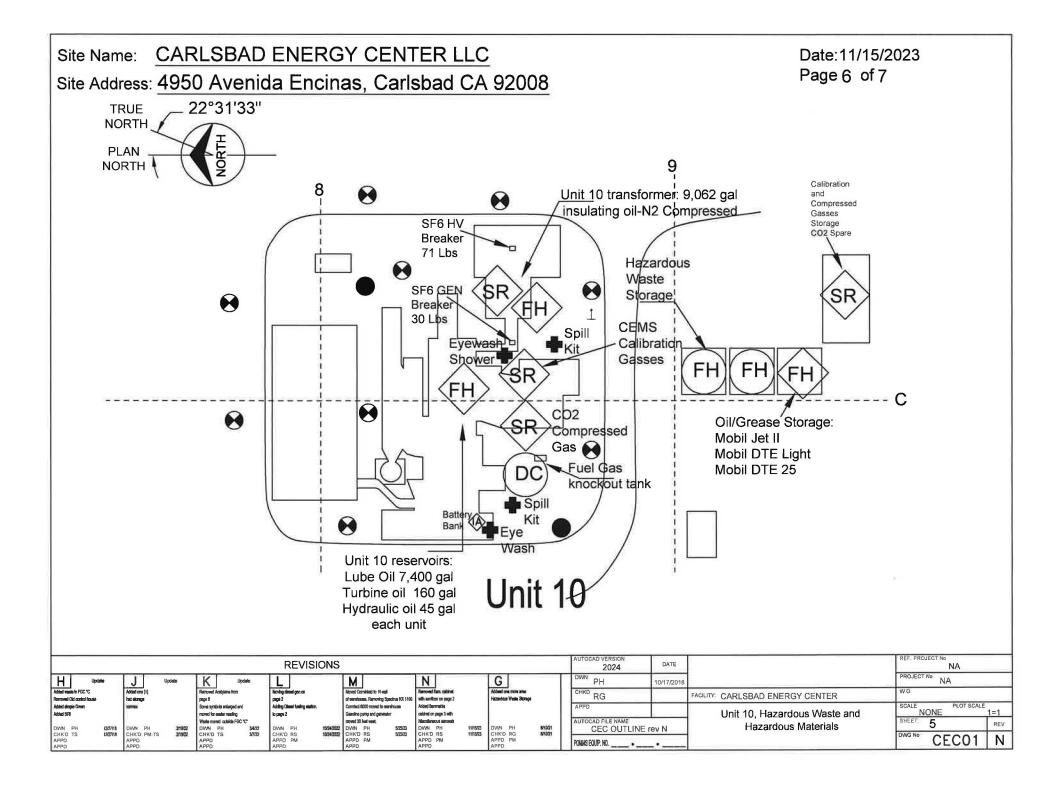


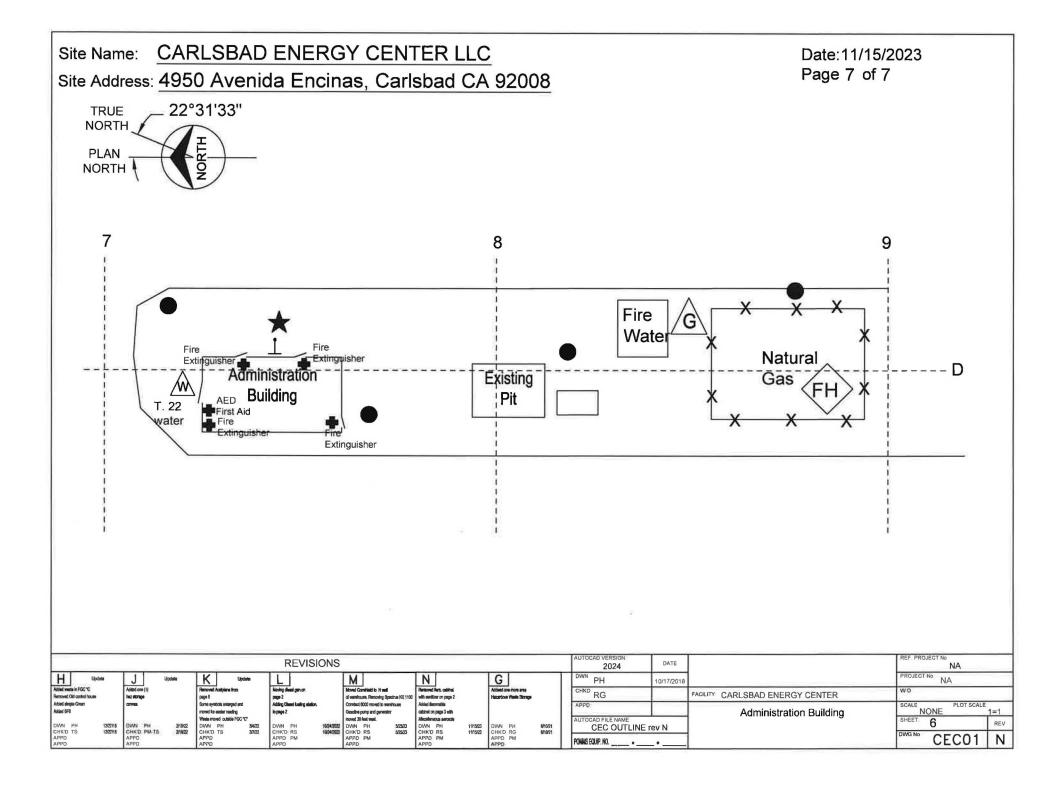












Carlsbad Energy Center Project Emergency Action Plan

8 eks		Carlsbad Energy Center							
a 🕹 🕹 📲		Project							
nrg		Procedure Number	CECP-1201						
			Emergency Action Plan – Site Specific						
		Revision Date	February 2024						
Approved:	Applicable	Signatures:	1	Date:					
O & M Supervisor	1	SAL	1	2/16/24					
Plant Manager	8		>	2/16/24					

The purpose of this procedure is to ensure that Carlsbad Energy Center Project (CECP) emergencies are addressed promptly, minimizing exposure to personnel and property and communicating information in an organized manner that will provide accurate reporting to the appropriate parties.

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Emergency Contact List

Carlsbad Energy Center Project

- Facility Name: Carlsbad Energy Center Project Owner: Carlsbad Energy Center LLC •
- •
- Physical Address of the Facility: 4950 Avenida Encinas, Carlsbad, CA 92008 •
- Other Identifying Information:

Project Name:	Carlsbad Energy Center ("CECP")
Project Address:	4950 Avenida Encinas, Carlsbad, CA 92008
SDG&E SC ID:	SDG3
CAISO Resource Name:	Carlsbad Energy Center
CAISO Resource ID Unit	CARLS1_2_CARCT1
1:	
CAISO Resource ID Unit	CARLS2_1_CARCT1
2:	
Project Nominal Capacity:	500 MW

Carlsbad Energy Center

Name	Work Phone No.
24-hour Control Room	760.710.3950 Control Room
CECP Business Phone	760.710.3970 Office
Paul Mattesich	760.710.3945 Office
Plant Manager	805.616.5836 Cell
Brian Wood	760.710.3949 Office
Operations and Maintenance Supervisor	805.794.3851 Cell
Ryan Stewart	860.995.5507 Cell
Environmental Health and Safety Specialist	
	760.707.6833 Cell
NRG Regional Environmental (Back-Up): George Piantka	

NRG-related

Name	Title	Office Phone Number	Mobile Number	Email Address
SDGE Real- Time Desk	Transaction Scheduler	858-650-6160		tsched1@semprautilities.com
Aaron Malady	Corporate Security	713-537-2730		Aaron.malady@nrg.com
Ann Duhon (Primary Spokesman)	Manager, Communications	713-562-8817		Ann.Duhan@nrg.com
Dan Maul	Energy Services Safety Manager		815-671-1064	daniel.maul@nrg.com

February 2024

Name	Title	Office Phone Number	Mobile Number	Email Address
NERC/CIP		713-537-5900		
Duty		267-735-9621		
George Piantka	Environmental Director		760-707-6833	George.Piantka@nrg.com
Tim Sisk	Regional Environmental Manager	760-930-1507	860-334-8081	Tim.Sisk@nrg.com
Core Injury Management	All employee injuries	855-723-3674		

Emergency Contact Numbers

Agency	When	Phone number
Carlsbad Fire Department	24 Hour emergency	911
	Non-Emergency	858-756-3006
San Diego County Hazmat	24 Hour emergency	911
Police	24 hr. emergency	911
	Non-Emergency	760-931-2197
San Diego County Fire	Any significant release or	858-505-6657
Department Hazmat Division	threatened release of a hazardous	
(CUPA)	material requires immediate reporting to CUPA.	
California Office of	Any significant release or	800-852-7550
Emergency Services (O.E.S.)	threatened release of a hazardous	916-262-2155
State Warning Center	material requires immediate	
	reporting to OES.	
National Response Center	Release exceeding reportable	800-424-8802
	quantity (RQ).	
Chemical Safety and Hazard	Report any releases that result in	202-261-7600 (or
Investigation Board (CSB)	fatality, serious injury, or	report@csb.gov)
	property damage of at least	
	\$1,000,000.	
Division of Occupational	Incident involving serious injury,	626-239-0369
Safety & Health (DOSH)	illness, or death	
Federal Bureau of	Terrorist attack, bomb threat,	310-477-6565
Investigation (FBI) – Los	significant sabotage and active	
Angeles Office	shooter situations	
U.S. Coast Guard	Spill to Waterway (Into Storm	619-278-7033
	Drains)	
San Diego Regional Water	Spill to Waterway (Into Storm	619 516-1990
Quality Control Board	Drains)	
San Diego Air Pollution	Emissions Exceedance.	858-586-2650.
Control District (SDAPCD)	If due to equipment breakdown	After hours select
	call within 1 hour of discovery and	option 2 on
	choose option 2	SDAPCD phone
		system

San Diego County Government – Info line	Business related	858-694-3900
California Department of	Improper disposal of hazardous	800-728-6942
Toxic Substance Control	substance	000 720 05 12
Poison Control Center	Incidents of ingestion of chemical or medications.	800-222-1222
CA Department of Fish and	Incidents that threaten	858-467-4201
Wildlife	endangered species or migratory birds. <i>Not in the event of a spill</i> <i>as they are notified by OES.</i>	Main office: 0800- 1630
SDGE Operations Desk	When SDGE Realtime Desk is not available	858-650-6196
SDGE Outage Desk	To schedule an outage	858-650-6178
CAISO Gen Desk		916-351-2488
		916-351-2489
CAISO RIG Engineer	RIG Issues	916-608-5826
		916-241-7004
SDGE Day Ahead Scheduler	When substation switching is needed	858-650-6178 (0500-1300 Mon- Fri) 858-650-6160 - 24 Hour
Carlsbad Municipal Water	Any issues with water supply	442-339-2722
District		760-931-2197 After
		hours
SDG&E	Natural Gas Related Issues <i>i.e. Leak or Release</i>	1-800-411-7343
California Public Utilities	Natural Gas Pipeline Release	800-235-1076
Commission (CPUC)	Emergency Call SDG&E Gas first	
California Energy	Report Emergencies When it is	916-698-7498
Commission	safe to do so. Anwar Ali	
California Dublia Utilitia	Compliance Project Manager	
California Public Utilities Commission	Report Injuries within 24 hours	1-415-355-5503
Commission		or Online submittal
		Unine Submittal

Resources

Agency	When	Phone number
American Integrated	24 Hour Spill Clean Up/Removal	888-423-6060
Services	Message Center	310-522-1168
Cal OES HazMat Section	Assistance deciding how to respond	916-845-8798
	to a spill	
CHEMTREC	24 Hour Chemical information	800-424-9300
National Weather	Weather information – Oxnard	805-988-6610
Service	Forecast Office	
Fire Department	Non-Emergency	858-756-3006
Police Department	Non-Emergency	760-931-2197
-	Business	760-931-2100

Community Notifications

Company	Distance / Direction	Phone Numbers
West Properties (West	South of CECP	760-448-4501
Inn)		M: 858-336-9095
SDGE Switchyard	South of CECP	858-613-3004
Facility Manager (Kyle		858-312-0661
Bakewell, Shayne		sferber@sdge.com
Ferber backup)		
Poseidon	West of CECP	760-795-3550
EWA Lift Station	North of CECP	760-438-3941

COMMUNICATION CENTERS AND EMERGENCY SYSTEMS

- I. Emergency Communications Centers
 - A. The primary emergency communications center: Control Room Outside phone (760) 710-3950
 - B. Emergency Notification System:

Two-way Radio System

II. Emergency Activity Documentation

All plant activities taken during emergencies will be recorded in chronological order, including equipment problems, personnel injuries, and updates on station status and generation availability.

- III. Emergency Systems
 - A. In an emergency situation, a senior CECP Manager will take the Incident Commander (IC) role to manage the incident.
 - B. If an agency responds to the station, such as fire or police department(s), the agency personnel will take over the IC role from the CECP Manager. The CECP Manager should remain with the agency IC to provide any advice re: the plant equipment or systems.
 - C. All personnel shall cooperate with emergency responders for life flight operations, securing appropriate landing under the direction of the responding agency.
 - D. Windsocks shall be monitored during evacuation periods
 - E. CECP has three designated safe assembly areas. If in case of severe ammonia leak, evacuate to the tertiary assembly area.
 - 1. Primary Assembly Area: Just outside the administration building in the parking lot on the east side of the building. If workers are in the warehouse the assemble area is in the parking lot on the south side of the warehouse building.

2. Secondary Assembly Area: Just outside of the main gate at the south end of the facility.

- 3. Tertiary Assembly Area: Evacuate all the way to the south end of the SDG&E substation, outside the substation gate on Avenida Encinas.
- 4. If in case of a severe ammonia-leaking incident occurs when only a few personnel are in the plant, personnel will

close all doors and shut off the Air Conditioning and ventilation to prevent ammonia vapors from entering the Control Room. Call 911 to notify the Fire Department Hazardous Material Team. Workers will then evacuate the site to the offsite muster area.

- F. If applicable, refer to the Business Emergency/Contingency plan (on file with the San Diego County Department of Environmental Health Department Hazmat Division (CUPA). A copy is located in the Control Room.
- G. Emergency evacuation
 - 1. In the event a helicopter is needed, landing area is at the emergency responder's discretion. The heliport at Encina Power Station is not available due to demolition activities.
 - 2. The leaders during an evacuation are:

Senior Staff Member.

Visitors – Designated Station Contact.

- H. First Aid supplies are available in the Control Room.
- I. All workers will be awareness trained on CPR, First Aid and AED use. Workers will maintain current certifications as required, pending contractor availability and access.
- J. Incipient fire-fighting training shall be given to station employees. Fire equipment is to be inspected monthly.
- K. Emergency supplies consist of our private potable water system, bottled water, and food rations. The water system should remain intact during a major earthquake and if the power lines are down with no auxiliary power to the station, a three day supply of emergency water and food rations is available. Note: All perishable food on site should be consumed first.

PERSONNEL EVACUATION

Important Contact List	(for more – see Emergency	Contact List)

Where to call	Phone number	Person making the call
Emergency & Ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant damages	(302) 381-6332 Cell	CECP Manager
Corporate Security (Aaron Malady) – for any significant security emergencies	(713) 537-2730	CECP Manager
NRG Spokesman: Communications Manager (Ann Duhan) – for requests from the media about the situation	(713) 562-8817	CECP Manager
California Energy Commission: Anwar Ali	916-698-7498	CECP Environmental Manager

I. Activation

When an evacuation is appropriate:

The Operating Authority will activate the emergency notification system via the plant paging system by paging the following message 3 times over the two-way radio system and the PA system. The message can be followed with more detailed information if required.

"ATTENTION ALL PERSONNEL! THIS IS AN EMERGENCY. EVACUATE TO THE (primary, secondary or tertiary) ASSEMBLY AREA"

- A. All personnel who are not operating critical areas of the plant are expected to report to the assembly area. Essential personnel shall be under direction of the Operating Authority and will remain on duty unless it is unsafe to do so.
- B. Control Room will provide emergency information to the Evacuation Leader at the evacuation assembly area.
- C. Evacuation Leader shall provide assistance with escape. The leaders are:
 - 1. Evacuation area Senior Staff Member
 - 2. Control Rooms On duty Operating Authority

- 3. Visitors Designated Station Contact
- D. CECP has three designated safe assembly areas. If in case of severe ammonia leak, evacuate to the tertiary assembly area.
- 1. Primary Assembly Area: Just outside the administration building in the parking lot on the east side of the building. If workers are in the warehouse the assemble area is in the parking lot on the south side of the warehouse building.
- 2. Secondary Assembly Area: Just outside of the main gate at the south end of the facility.
- 3. Tertiary Assembly Area: Evacuate all the way to the south end of the SDG&E substation, outside the substation gate on Avenida Encinas.
 - 4. If in case of a severe ammonia-leaking incident occurs when only a few personnel are in the plant, personnel can stay in the Control Room instead of evacuating to an evacuation area. Ensure to close all doors and shut off the Air Conditioning and ventilation to prevent ammonia vapors from entering the Control Room. Call 911 to notify the Fire Department Hazardous Material Team.
 - E. Evacuation Leaders will determine which assembly area can be safely accessed and direct affected personnel to that safe assembly area. Upon arrival at the safe assembly area, personnel will be accounted for. Employees interacting with visitors, vendors, or contract personnel, at the time of evacuation notice will be required to account for their presence. A list of those not accounted for will be forwarded to the Control Room.
 - F. Site management, as feasible, will initiate search and rescue efforts. Personnel shall remain in safe assembly area until provided further instructions.
 - G. In the event either Control Room is unsafe to occupy, the operator will attempt to trip any running units and report to a safe area communicating via portable radio.
- II. Drills

Conduct a drill on the evacuation process every 12 months.

MEDICAL EMERGENCIES

Important Contact List	(for more – see Emergen	cy Contact List)
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	D I	D
Where to call	Phone number	Person making the call
Emergency & Ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
VP, Regional Plant Operations (John Robertson) – for injuries	(302) 381-6332 Cell	CECP Manager
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
NRG Spokesman: Communications Manager (Ann Duhan) – for requests from the media about the situation	(713) 562-8817	CECP Manager
Director, Operational Safety (Michael Hagenmayer) - This person will notify Cal/OSHA, if applicable	(315) 349-2329 Office (202) 213-9109 Cell	Safety Specialist
Division of Occupational Safety & Health (Cal/OSHA) – for serious employee injuries or fatalities	(909) 383-4321	Regional Safety Manager
Core Injury Management - All employee injuries	(855) 723-3674	Injured employee's supervisor, designee or Safety Specialist
California Energy Commission Anwar Ali	916-698-7498	Only for worker injuries that require offsite medical attention.
California Public Utilities Commission	(415) 355-5503	Only for worker injuries that require offsite medical attention.

I. Discovery.

The person who discovers an accident/injury shall immediately inform the Control Room with the following information and then ensure that proper basic first aid is provided until help arrives.

A. Discoverer's name and location.

- B. Exact location of accident/injury.
- C. Name, approximate age and any known medical conditions of injured person(s).
- D. Nature and severity of accident/injury.
- E. Any apparent conditions or hazards that could increase the level of danger (i.e., chemicals, falling hazards, space confinements) in the area of the accident.
- F. Description of any action being taken or about to be taken.
- II. Notifications.

Upon notification of a medical emergency, the Operating Authority (person receiving the emergency call) shall:

- A. Gather information from the person reporting the emergency. Use Emergency Response Information Form (Addendum 1).
- B. Notify the appropriate outside agencies, call 911. Report the number of injured personnel, severity and type of injuries.
- C. Follow the Safety and Health Incident Notification instructions (Addendum 2).
- D. Notify Core Injury Management
- E. Notify the Safety Specialist and the available CECP Manager.
- F. Notify SDGE Real-Time Desk if operation of the unit(s) is affected.
- III. Assess Plant Status.
 - A. Number of injured (employees and non-employees)
 - B. Nature and severity of injuries (include fatalities)
 - C. Effect on station generation
 - D. Corrective action initiated
 - E. Situation stable or unstable
- IV. Outside Emergency Assistance.

Give specific direction to outside agencies on route to the station (assign someone at the main gate to direct emergency vehicles entering the site.)

- V. Account for all Personnel.
 - A. The Operating Authority will account for all personnel on site.
 - B. If a major disaster occurred and the plant was not evacuated, a senior staff shall account for his personnel and report the results

to the Control Room. Designated Station Contacts shall account for any contractors, visitors, delivery persons, vendors, etc. who are not part of the resident work force.

Note: If the incident necessitates the evacuation of a building, personnel shall report to the evacuation assembly area shown on the station map. (Addendum 4)

- VI. Determine if Hazardous Chemicals are involved.
 - A. De-contaminate affected person(s) as needed.
 - B. Review the Safety Data Sheets (SDSs) for chemical hazards, i.e. flashpoint, extinguishing agent, health hazard, first aid, etc.
 - C. Furnish outside agencies SDSs. This includes fire department, paramedics and hospital.
- VII. Determine Corrective Action as Needed.
- VIII. First Aid Supplies.

The first aid supplies and AED are located in the Control Room.

- IX. Control Panic and Confusion.
 - A. Remain Calm reassure others
 - B. Update personnel on station status
 - C. Give specific job assignments
 - D. Remove non-essential personnel from the affected area
 - E. If a supervisor is not available, the Operating Authority will assume his responsibilities
 - F. All employees remain on the job unless directed otherwise.
- X. Reassess the Situation (Equipment and Personnel Status). Forward this updated report to the Plant Management or his designee.
- XI. Organize Team to Contain the Situation.

A. Evaluate problems associated with online units and units removed from service.

- B. Identify and Isolate dangerous areas
- C. Secure plant perimeters, direct traffic, document all personnel entering and leaving station and limit access to authorized personnel only.
- D. If capable to do so, repair damaged equipment.
- XII. Call out Additional Personnel As needed.

- XIII. Establish an Emergency Communication Center (if necessary) at the Control Room. Plant activities during an emergency will be recorded in chronological order in the emergency communication center.
- XIV. Media reporting

To ensure consistency in the release of information, a single NRG corporate spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant.

XV. Establish On-Site Teams for Around the Clock Coverage (if-required)

During the crisis, management personnel will supervise and coordinate around-the-clock teams through the unstable and transition periods. This surveillance will continue until conditions stabilize and there is no further danger to personnel and equipment.

FIRE EMERGENCIES

Important Contact List	for more – see Emergency	Contact List)
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Where to call	Phone number	Person making the call
Emergency & Ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – if large fires occurred	(302) 381-6332 Cell	CECP Manager
NRG Spokesman: Communications Manager (Ann Duhan) – for requests from the media about the situation	(713) 562-8817	CECP Manager
California Energy Commission Anwar Ali	916-698-7498	CECP Environmental Manager

I. Discovery

The person who discovers a fire shall immediately inform the Control Room with the following information. The person receiving the information should use the Emergency Response Information Form (Addendum 1) for this purpose.

- A. Discoverer's name and location.
- B. Exact location of the fire.
- C. Size and type of fire (Class A, B or C)
- D. Report number and type of injuries if any.
- E. Any apparent conditions or hazards that could increase the level of danger (i.e., chemicals, flammable liquids or gases) in the area of the fire.
- F. Description of any action being taken or about to be taken. The caller should begin fighting the incipient level fire if trained. (Do not attempt to extinguish the fire alone unless you are sure it can be done safely).
- II. Notification

If the fire is in its incipient stage and is in the process of being extinguished, the Operating Authority (person receiving the emergency call) shall send all available support to the incident location. Fire extinguisher hands-on training shall be provided to applicable station employees annually.

If the fire has progressed beyond the incipient stage or there are hazards near the fire which could quickly elevate the danger, the Control Room shall:

- A. Activate the emergency notification system for fire (two-way radio system and PA).
- B. Notify the appropriate outside agencies including calling 911.
 - 1. Magnitude and type of fire.
 - 2. Type of fuel or chemicals involved.
 - 3. Number of personnel injured.
 - 4. Plant location and accessibility to the affected area.
 - 5. Information on station firefighting equipment.
- C. Notify SDGE Real-Time Desk, if operation of the unit(s) is affected.
- D. Follow the Safety and Health Incident Notification Instructions (Addendum 2)
- E. Notify the Plant Management
- III. Outside Emergency Assistance
 - A. Give specific direction to outside agencies in route to the station.
 - B. Assign someone to the main gate to direct emergency vehicles entering the site.
 - C. Provide an update to the fire department personnel of the incident and situation
- IV. Account for all Personnel

The Operating Authority will account for all personnel on site.

If a major disaster occurred and the plant was not evacuated, supervisors shall account for their personnel and report the results to the Control Room. Designated Station Contacts shall account for any contractors, visitors, delivery persons, vendors, etc. who are not part of the resident work force.

Note: If the incident necessitates the evacuation of a building, personnel shall report to their designated evacuation assembly area shown on the station maps (Addendum 4).

V. Determine Corrective Actions

- A. Identify and isolate sources of danger or fuel sources feeding the fire.
- B. Evaluate problems associated with online units and off line units.
- C. Shut off fuel sources. Secure pumps, isolation valves, etc.
- D. Shut off any potential ignition sources such as motors, electrical circuits, open flames, etc.
- E. De-energize electrical equipment in or near the fire area.
- F. If the CO_2 system can extinguish the fire in the area, manually activate CO_2 , if it did not take place automatically.
- G. Monitor fire's progress.
- H. Check the fire pump status and raw water tank level.
- I. If Hazardous Chemicals are involved, barricade the area and follow the Hazardous Material Spill Procedure.
 - 1. Barricade the affected area.
 - 2. Review the Safety Data Sheets (SDSs) for chemical hazards, i.e. flashpoint, extinguishing agent, health hazard, first aid, etc.
 - 3. Furnish outside agencies SDSs information. This includes fire department, paramedics and hospital.
- VI. Control Panic and Confusion
 - A. Remain calm, reassure others.
 - B. Give specific job assignments.
 - C. Remove non-essential personnel from the affected area.
 - D. If a supervisor is not available, the Operating Authority will assume the responsibilities.
- VII. Assess Plant Status
 - A. Number of personnel injured, if any.
 - B. Nature and severity of injuries (include fatalities)
 - C. Effect on station generation
 - D. Corrective action initiated
 - E. Situation stable or unstable
- VIII. First Aid Supplies

The first aid supplies, burn kit, and AED area located in the Control Room.

- IX. Organize Teams to Contain the Station
 - A. Evaluate problems associated with online units and units removed from service.
 - B. Identify and Isolate dangerous areas
 - C. Secure plant perimeters, direct traffic, document all personnel entering and leaving station and limit access to authorized personnel only.
 - D. Repair the damaged equipment.
- X. Establish an Emergency Communication Center (if necessary) at the Control Room. Plant activities during an emergency will be recorded in chronological order in the emergency communication center.
- XI. Media Reporting

To ensure consistency in the release of information, a single NRG corporate spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant.

HAZARDOUS MATERIAL SPILLS

Important Contact List (for more – see Emergency Contact List)

Where to call	Phone number	Person to make call
Medical emergency and ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk – if operation of the unit(s) is affected.	626-307-4410	Operating Authority
NRG Spokesman: Manager, Communications (Ann Duhan) – for requests from the media/public about the situation	713-562-8817	Plant Management
San Diego County Department of Environmental Health Hazmat Division (CUPA)	858-505-6657	Environmental Specialist
California Office of Emergency Services (O.E.S.)	800-852-7550	Environmental Specialist
National Response Center	800-424-8802	Environmental Specialist
Chemical Safety and Hazard Investigation Board (CSB)	202-261-7600 (or report@csb.gov)	Environmental Specialist
California Energy Commission Anwar Ali	916-698-7498	Environmental Specialist
Department of Toxic Substances Control	800-728-6942	Environmental Specialist
San Diego Water Quality Control Board	619-516-1990	Environmental Specialist
US Coast Guard	619-278-7033	Environmental Specialist
SDG&E (gas service/leak)	1-800-411-7343	Environmental Specialist
California Public Utilities Commission	800-235-1076	Environmental Specialist
American integrated Services- 24 Hour Spill Clean Up/Removal	888-423-6060	Environmental Specialist
Global Infrastructure Partners – Michael O'Toole	312-835-8527	Environmental Specialist

- I. This procedure is designed to be used in conjunction with the "Risk Management Plan", "Spill Prevention, Control and Countermeasure Plan", "Hazardous Material Business Plan", Security Plan, and "Waste Management and Minimization Plan."
- II. Discovery

All hazardous material spills are to be reported to the Control Room. The person who discovers a hazardous material release shall immediately inform the Operating Authority through radio or phone and report the following information:

A. Exact location, time, duration, quantity (estimated), all known substances involved

in the Release, level of containment, media into which the release occurred, proximity of storm drains and any other items of significance that can be ascertained in a few seconds.

B. Names of personnel exposed to or potentially injured by hazardous material.

- C. Any apparent conditions or hazard, which could increase the level of danger/exposure in the area of the hazardous material release.
- III. Notification
 - A. The Operating Authority shall assess the severity of the material release, the appropriate responding method for the situation, and shall determine at that point if 911 should be called.
 - B. If a health hazard exists, notify station personnel of the incident over the public address system and/or implement the Personnel Evacuation Procedure outlined in this Emergency Action Plan.
 - C. After the situation is assessed and/or emergency notification of 911 is made, then notify the O&M Supervisor. After the O&M Supervisor provides the Plant with necessary operational instructions, the O&M Supervisor will contact the CECP Environmental Specialist who will make any necessary internal and external agency notifications (in accordance with section VI of this procedure) and arrange for clean-up if necessary. CECP EH&S Specialist is unavailable, contact NRG regional environmental support (see emergency contact list) for assistance immediately.

The following information should be relayed: Exact location, time, duration, quantity, all known substances involved in the release, level of containment, media into which the release occurred, proximity of storm drains and any other items of significance that can be ascertained in a few seconds. The O&M Supervisor will also notify the Plant Manager.

D. If in case of a severe ammonia-leaking incident occurs when only a few personnel are in the plant, personnel will close all doors and shut off the Air Conditioning and ventilation to prevent ammonia vapors from entering the Control Room. Workers will call 911 to notify the Fire Department Hazardous Material Team. Worker will evacuate to the offsite muster area.

- IV. Assessment and response to a hazardous material leak
 - A. Types of leaks:
 - For a release from a drum, tote, or tank and if the leak is minor, make an attempt to stop the leak if it can be done safely. If the leak is downstream of a block valve and the valve can be safely shut, shut it off and barricade the leak.
 Do not attempt to plug or stop any chemical leaking from a tank or line other than attempting to quickly stop it by closing a block valve located upstream of the leak. Barricade a perimeter a safe distance from the leak and stay away. Call 911 to ask for assistance with the leak.
 - 2. Releases of bulk storage chemicals (i.e. ammonia, sulfuric acid, sodium hypochlorite)
 - i. If the release cannot be stopped or is likely to breach the secondary containment, call 911 immediately to report the spill to the Carlsbad Fire Department.
 - If the storage tank has a leak, call in a vacuum or tank truck, as required, to allow the storage tank to be drained and flushed prior to repair. Dispose of all Hazardous Waste to an approved waste disposal site.
 - iii. If the chemical is leaking from the piping system, close the tank discharge valve and stop all feed equipment.
 - iv. For a release during offloading operations immediately shut off the chemical supply from tanker (i.e., close dispenser; isolate supply hose).
 - B. If the hazardous material leaking is ammonia and personnel can smell ammonia, barricade to isolate the area and stay upwind.
 - C. Spill kits for ammonia are located at each power block and the ammonia offloading area. Ammonia spill kits consist of absorbent spill pads (hydrophilic) and a chemical compatible container. DO NOT DILUTE spills. Any ammonia or ammonia cleanup materials must be placed in a waste compatible container and placed in the hazardous waste accumulation area onsite depending disposal.

- D. For all operations that are to be performed, personnel must wear proper personal protective equipment (PPE), including a respirator with appropriate filter cartridges.
- E. Allow only authorized persons wearing appropriate PPE in the affected area.
- F. Review Safety Data Sheets (formerly MSDSs) for the characteristics of the leaking substance. Provide the information to the outside agencies when they are notified.
- G. For oil leaks, follow the SPCC procedure.
- H. If leak is discovered at the Hazardous Waste Accumulation Area, remediate the situation using appropriate oil or chemical spill kit. Notify the Environmental Specialist as soon as possible. (See attached locations of spill clean-up equipment)
- I. Hazardous material spill clean-up is to be done by a contractor except any spill that is of low hazard or that is considered to be small quantity. Small quantity based on only requires one spill kit to cleanup from within containment and is below reportable quantity (RQ).
- J. All spill cleanup wastes must be stored and disposed of in accordance with the facility waste management plan.
- V. Establish a communication center (if required)
 - A. In the event of calling 911, secure the plant perimeter.
 - B. All plant activities will be recorded in chronological order in the CECP Logbook, including but not limited to equipment problems, personnel injuries, environmental impact and notifications and updates on station status and generation availability.
- VI. Regulatory Notifications & Reporting

The Environmental Specialist will make all notifications to regulatory agencies. If unable to reach the Environmental Specialist, the Plant Manager or NRG Regional Environmental Support contact (see Emergency Contacts) will make the following notifications:

Verbal Notifications					
Agency	Circumstances	When to Report	What to Report	Phone	Citation
911	Imminent threat to public health	Immediately	Detailed information about spill and any injuries or safety incidents involved.	911	-

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San Diego County Department of Environmental Health Hazmat Division (CUPA)	Any release of oil, hazardous material or waste (including any reported to the NRC or OES) to the environment.	Immediately	Spill information and any other details requested.	858-505-6657	23 CCR 2650-2652; 19 CCR 2701-2705
Agency	Circumstances	When to Report	What to Report	Phone	Citation
California Office of Emergency Services (Cal OES)	A significant release or threatened release of oil, hazardous materials or hazardous waste, or sewage including fire or explosions which could threaten human health, or the environment. All releases of 42 gallons or more from a tank. All hazardous liquid pipeline releases.	Immediately	 The exact location of the release or threatened release; The name of the person reporting the release or threatened release; The hazardous materials involved in the release or threatened release; An estimate of the quantity of hazardous materials involved; and If known, the potential hazards presented by the hazardous material involved in the release or threatened release; 	800-852- 7550 or 916-845- 8911	19 CCR 2703 - 2705; 23 CCR 2250-1, 2260; HSC 25501 (o), (p)
National Response Center (NRC)	All releases of oil or hazardous materials equal or exceeding the reportable quantity and any releases of oil or hazardous materials to water (i.e. to our Storm Drains).	Immediately	 The chemical name or identity of any substance involved in the release. An indication of whether the substance is an extremely hazardous substance. An estimate of the quantity of any such substance that was released into the environment. The time and duration of the release. The medium or media into which the release occurred. Any known or anticipated acute or chronic health risks associated with the emergency and, where appropriate, advice regarding medical attention necessary for exposed individuals. Proper precautions to take as a result of the release, including evacuation (unless such information is readily available to the community emergency coordination pursuant to the emergency plan). The names and telephone number of the person or persons to be contacted for further information. 	800-424- 8802	40 CFR 110.6, 302.4, 355.40
Department of Toxic Substances Control (DTSC)	All hazardous waste tank releases and/or containment systems. (release of Fuel Gas Compressor Drain Tank)	Immediately	Spill information and any other details requested.	800-728-6942	22 CCR 66265.56
US Coast Guard	All releases of oil or hazardous materials/hazardous waste to water (storm drains)	Immediately	Spill information and any other details requested.	619-278-7033	33 CFR 153.201 - 153.203

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Regional Water Quality Control Board (San Diego)	All releases of oil or hazardous materials/hazardous waste to water (storm drains)	Immediately	Spill information and any other details requested.	619-516-1990	23 CCR 2260 Reporting Requirements
SDG&E Gas	Release of Natural Gas	Immediately	Spill information and any other details requested.	1-800-411- 7343	-
California Public Utilities Commission	For release of Natural Gas (call SDG&EGas 1st)	Immediately	Spill information and any other details requested.	800-235-1076	-
California Energy Commission	Report any incident that requires outside agency reporting or response.	As soon as it is safe to report.	 Health and safety impacts on the surrounding population; Property damage off-site; Response by off-site emergency response agencies; Serious on-site injury; Serious environmental damage; or Emergency reporting to any federal, state, or local agency. 	916-698-7498	CEC License COM-13
Global Infrastructure Partners	Report any environmental emergency.	As soon as it is safe to report	Any Environmental Emergency	Michael O'Toole: 312-835-8527	-

Written Follo	w-Up Reports				
Agency	Circumstances	When to Report	What to Report	Submit To	Citation
California Office of Emergency Services (Written Report)	A significant release or threatened release of oil, hazardous materials or hazardous waste, or sewage including fire or explosions which could threaten human health, or the environment. All releases of 42 gallons or more from a tank. All hazardous liquid pipeline releases.	As soon as practicable following a release, but no later than 30 days from the date of the release.	Emergency Release Follow-up Notice Reporting Form (See addendum 5).	Chemical Emergency Planning and Response Commission (CEPRC) 3650 Schriever Ave, Mather, CA 95655	19 CCR 2705
EPA Region IX	Any discharge of 1,000 gallons or more of oil; or second discharge of 42 gallons or more of oil over a 12-month period.	Written follow-up within 60 days	See form and instructions in SPCC Plan.	See form and instructions in SPCC Plan.	40 CFR 112.4
California Energy Commission	 Health and safety impacts on the surrounding population; Property damage off- site; Response by off-site emergency response agencies; Serious on-site injury; Serious environmental damage; or Emergency reporting to any federal, state, or local agency. 	Written follow-up within 1 week.	See COM-13	CEC CPM	CEC License COM-13

*NOTE: The timing on verbal notifications is to call "as soon as there is knowledge of any release." The priority is on timeliness. However, a balance must be struck between acting to report and acting to contain and prevent damage. Call in the report as soon as possible and not less than an hour from when the incident occurred.

The report (and any emergency response) cannot be delayed in order to provide the complete information. The report can always be modified at a later date.

VII. Media reporting

To ensure consistency in the release of information, a single NRG corporate spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant.

VIII. Required Training

- A. Spill Prevention Control & Countermeasure (SPCC):
 - 1. Required For: 40 CFR §112.7(f). Oil storage and oil filled equipment. Required and enforced by the EPA. All personnel handling oil or responsible for conducting SPCC inspections must be trained. Appropriate personnel who are responsible for the operation and maintenance of equipment in the effort to prevent oil discharge must also receive training.
 - 2. Frequency: Within 6 months of hire or prior to working with oil or fuel materials unsupervised. Prior to a new assignment or change in operation. Refresher training is required annually.
 - 3. Must Include: Initial training for appropriate personnel covers the operation and maintenance of equipment to prevent discharges; discharge procedure protocols; applicable pollution control laws, rules and regulations; general facility operations; and the contents of this SPCC Plan.

Appropriate personnel also receive annual discharge prevention briefings to assure adequate understanding of this SPCC Plan. Such briefings highlight and describe past reportable discharges or failures, malfunctioning components, and any recently developed precautionary measures

- B. CalARP RMP (Risk Management Plan)
 - Required For: 19 CCR §2755.4. Aqueous Ammonia 19%. Required by the (California Accidental Release Prevention) Program and enforced by the San Diego County Department of Environmental Health Hazardous Materials Department (CUPA). All personnel involved in operating or maintaining the ammonia process must be trained.
 - Frequency: Before an employee is allowed to operate or maintain covered processes and prior to a change in assignments. Refresher training is required every 3 years.
 - 3. Must Include: Safety information, a Hazard review, Operating procedures, Maintenance requirements, Compliance audits and Training requirements.
- C. Hazardous Materials (HMBP) & Hazardous Waste

- 1. Required For: 19 CCR §2732. Hazardous Materials Business Plan. All personnel must be trained.
- 2. Frequency: At the time of hire and prior to new assignments or changes in operation. Refresher training is required annually.
- 3. Must Include: Internal Alarm/Notification, Evacuation/Reentry Procedure and Assembly Point Locations

Emergency incident reporting, External Emergency Response Organization Notification, Locations and Contents of Emergency Response/Contingency Plan, Facility Evacuation Drills, Safe Methods for Handling and Storage of Hazardous Materials, Location and Proper Use of Spill Equipment, Spill Procedures/Emergency Procedures, Hazards of Chemicals Exposed to and Hazardous Waste Management.

IX. Definitions

- A. Personnel training provided: First Responder, Operations Level (FRO). FRO are individuals who respond to releases or potential releases of hazardous substances as part of the initial response to the site for the purpose of protecting nearby persons, property, or the environment from the effects of the release. They are trained to respond in a defensive fashion without trying to stop the release. Their function is to contain the release from a safe distance, keep it from spreading, and prevent exposures.
- B. Hazardous material: Any substance that may result in adverse effects on the health or safety of employees.
- C. Discharge: Includes but not limited to, spilling, leaking, pumping, pouring, emitting, emptying, or dumping of material.
- X. Spill kit locations see Addendum 6 (Map of CECP Emergency Equipment Locations)

AMMONIA RELEASE

Important Contact List (for more – see Emergency Contact List)

Where to call	Phone number	Person to make call
Medical emergency and ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk – if operation of the unit(s) is affected.	626-307-4410	Operating Authority
NRG Spokesman: Manager, Communications (Ann Duhan) – for requests from the media/public about the situation	713-562-8817	Plant Management
San Diego County Department of Environmental Health Hazmat Division (CUPA)	858-505-6657	Environmental Specialist
California Office of Emergency Services (O.E.S.)	800-852-7550	Environmental Specialist
National Response Center	800-424-8802	Environmental Specialist
Chemical Safety and Hazard Investigation Board (CSB)	202-261-7600 (or report@csb.gov)	Environmental Specialist
California Energy Commission Anwar Ali	916-698-7498	Environmental Specialist
Department of Toxic Substances Control	800-728-6942	Environmental Specialist
San Diego Water Quality Control Board	619-516-1990	Environmental Specialist
US Coast Guard	619-278-7033	Environmental Specialist
SDG&E (gas service/leak)	1-800-411-7343	Environmental Specialist
California Public Utilities Commission	800-235-1076	Environmental Specialist
American integrated Services- 24 Hour Spill Clean Up/Removal	888-423-6060	Environmental Specialist
Global Infrastructure Partners – Michael O'Toole	312-835-8527	Environmental Specialist

- X. This procedure is designed to be used in conjunction with the "Risk Management Plan", "Spill Prevention, Control and Countermeasure Plan", "Hazardous Material Business Plan", Security Plan, and "Waste Management and Minimization Plan."
- XI. Discovery

All ammonia releases are to be reported to the Control Room. The person who discovers a hazardous material release shall immediately inform the Operating Authority through radio or phone and report the following information:

D. Exact location, time, duration, quantity (estimated), level of containment, media into which the release occurred, proximity of storm drains and any other items of significance that can be ascertained in a few seconds. Wind direction should also be noted.

E. Names of personnel exposed to or potentially injured by hazardous material.

- F. Any apparent conditions or hazard, which could increase the level of danger/exposure in the area of the hazardous material release.
- XII. Notification
 - E. The Operating Authority shall assess the severity of the material release, the appropriate responding method for the situation, and shall determine at that point if 911 should be called.
 - F. If a health hazard exists, notify station personnel of the incident over the public address system and/or implement the Personnel Evacuation Procedure outlined in this Emergency Action Plan.
 - G. After the situation is assessed and/or emergency notification of 911 is made, then notify the O&M Supervisor. After the O&M Supervisor provides the Plant with necessary operational instructions, the O&M Supervisor will contact the CECP Environmental Specialist who will make any necessary internal and external agency notifications (in accordance with section VI of this procedure) and arrange for clean-up if necessary. CECP EH&S Specialist is unavailable, contact NRG regional environmental support (see emergency contact list) for assistance immediately.

The following information should be relayed: Exact location, time, duration, quantity, all known substances involved in the release, level of containment, media into which the release occurred, proximity of storm drains and any other items of significance that can be ascertained in a few seconds. The O&M Supervisor will also notify the Plant Manager.

H. If in case of a severe ammonia-leaking incident occurs when only a few personnel are in the plant, personnel will close all doors and shut off the Air Conditioning and ventilation to prevent ammonia vapors from entering the Control Room. Workers will call 911 to notify the Fire Department Hazardous Material Team. Worker will evacuate to the offsite muster area.

XIII. Assessment and response to a hazardous material leak

- K. Types of leaks:
 - 3. For a release from a line or at a skid, make an attempt to stop the leak if it can be done safely. If the leak is downstream of a block valve and the valve can be safely shut, shut it off and barricade the leak. Do not attempt to plug or stop any chemical leaking from a tank or line other than attempting to quickly stop it by closing a block valve located upstream of the leak. Barricade a perimeter a safe distance from the leak and stay away. Call 911 to ask for assistance with the leak.
 - 4. Releases of bulk storage ammonia
 - i. If the release cannot be stopped or is likely to breach the secondary containment, call 911 immediately to report the spill to the Carlsbad Fire Department.
 - If the storage tank has a leak, call in a vacuum or tank truck, as required, to allow the storage tank to be drained and flushed prior to repair. Dispose of all Hazardous Waste to an approved waste disposal site.
 - iii. If the chemical is leaking from the piping system, close the tank discharge valve and stop all feed equipment.
 - iv. For a release during offloading operations immediately shut off the chemical supply from tanker (i.e., close dispenser; isolate supply hose).
- L. If personnel can smell ammonia, if safe, barricade to isolate the area and stay upwind.
- M. Spill kits for ammonia are located at each power block and the ammonia offloading area. Ammonia spill kits consist of absorbent spill pads (hydrophilic) and a chemical compatible container. DO NOT DILUTE spills. Any ammonia or ammonia cleanup materials must be placed in a waste compatible container and placed in the hazardous waste accumulation area onsite depending disposal.
- N. For all operations that are to be performed, personnel must wear proper personal protective equipment (PPE), including a respirator with appropriate filter cartridges.
- O. Allow only authorized persons wearing appropriate PPE in the affected area.

- P. Review Safety Data Sheets (formerly MSDSs) for the characteristics of the leaking substance. Provide the information to the outside agencies when they are notified.
- XIV. Establish a communication center (if required)
 - A. In the event of calling 911, secure the plant perimeter.
 - C. All plant activities will be recorded in chronological order in the CECP Logbook, including but not limited to equipment problems, personnel injuries, environmental impact and notifications and updates on station status and generation availability.
- XV. Operations under state of emergency from ammonia spill
 - a. Corrective Actions
 - i. The Operating Authority is to have an Operator(s) to assess the incident scene to determine the situation.
 - ii. Communicate the findings with the Control Room.
 - iii. Execute internal corrective measures that have been directed by the Operating Authority such as:
 - iv. De-energization of electrical systems
 - v. Shutting down process systems
 - 1. Including isolating ammonia piping using isolation valves.
 - vi. Removing equipment/system from service
 - vii. Adjusting station/unit/equipment loading based on the incident
 - b. Ammonia Event Review
 - i. All station safety systems must be identified, and a plan developed to restore them to service.
 - ii. Environmental impact must be determined.
 - iii. Applicable agencies must be notified.
 - iv. Fire/Rescue/HazMat equipment must be inventoried and returned to service.
 - v. Post incident critique must be conducted.
 - vi. Submit the post review report of the CSF to applicable station and corporate personnel.
 - c. Starting up after an emergency
 - i. If the ammonia is system is taken out of service either for the entire plant or one unit is isolated, there are procedural steps

that must be followed before the element/system can be put back into service.

- 1. The system must be determined to be in normal working condition.
- 2. Corporate environmental must be involved in the decision.
- 3. If requested or determined necessary, regulatory agencies will be involved in the change of operational status.

XVI. Regulatory Notifications & Reporting

The Environmental Specialist will make all notifications to regulatory agencies. These notifications are detailed in the Hazardous Materials Spills section VI.

XVII. Media reporting

To ensure consistency in the release of information, a single NRG spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant.

XVIII.Required Training

The required training is the same as detailed in Hazardous Materials Spills section VIII.

EARTHQUAKE

(Major where damage is suspect)

Important Contact List (for more – see Emergency Contact List)

Where to call	Phone number	Person making the call
Emergency & Ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant damages	(302) 381-6332 Cell	CECP Manager
NRG Spokesman: Manager, Communications (Ann Duhan) – for requests from the media/public about the situation	713-562-8817	CECP Manager
Core Injury Management - All employee injuries	(855) 723-3674	Injured employee's supervisor or designee
California Energy Commission Anwar Ali	916-698-7498	CECP Environmental Manager

I. Steps to Follow During an Earthquake

- A. If you are Indoors: "DROP, COVER and HOLD ON"
 - 1. Stay there don't rush outside.
 - 2. Remain calm take cover under a sturdy table or desk or move against an interior wall and protect your head with your arms. Do not stand in a doorway.
 - 3. Stay away from tall fixtures, windows and exterior walls.
 - 4.
- B. If you are Outdoors:
 - 1. Stay away from fallen electrical wires.
 - 2. Move away from high structures, lamp posts, and chemical containers.

- II. Assess Plant Status
 - A. Determine if earthquake was large enough to require emergency response.
 - B. Notify the Plant Manager or his designee and NRG Energy representatives.
 - C. Inspect the plant areas and equipment with emphasis given to critical equipment.
 - D. Furnish an assessment of plant damage and personnel status to the Plant Manager and NRG Energy representatives. (This report will be updated following a more thorough investigation.)
- III. Determine Corrective Action (If required)
 - A. Identify problems where assistance is required from outside agencies
 - B. Identify and isolate potential sources of danger; i.e. natural gas, chemical tanks, high voltage lines, etc.

Note: Due to widespread devastation, outside assistance may not be readily available. Therefore, the station could be required to be self-sufficient for a period of time. In such case follow the Personnel Required to Stay On-site during an Evacuation Procedure in this Emergency Action Plan.

IV. Account for all Personnel

If the plant was not evacuated, all personnel shall be account for and report the results to the Control Room. Designated Station Contacts shall account for any contractors, visitors, delivery persons, gas company employees, vendors, etc. who are not part of the resident work force.

Note: If the earthquake necessitates the evacuation of a building, personnel shall report to their designated evacuation assembly area shown on the station map.

- V. Assemble the Injured at a Central Location
 - A. Administer immediate first aid to injured personnel until the paramedics are at the plant.
 - B. If capable of being moved, transfer the injured to a safer area.
- VI. First Aid Supplies

The first aid supplies, burn kit, and AED area located in the Control Room.

VII. Control Panic and Confusion

- A. Remain Calm reassure others
- B. Give specific job assignments
- C. If a supervisor is not available, the Operating Authority will assume his responsibilities
- D. All employees remain on the job unless their supervisor releases them from duty.
- VIII. Reassess the Situation (Equipment and Personnel Status)

Effective use and condition of personnel should be reviewed. All structures and equipment shall be inspected for possible damage. This includes but is not limited to:

- A. Injured Personnel
- B. Transformer casings, bushings and foundations
- C. Fuel gas lines and connections
- D. Chemical and water tanks
- E. Turbine and Generator structures and foundation supports
- F. Forward this updated report to the Plant Manager or his representative and others necessary persons.
- IX. Determine if Hazardous Chemicals are Involved
 - A. Barricade the affected area
 - B. Review the Safety Data Sheets (SDSs) for chemical hazards, i.e. flashpoint, extinguishing agent, health hazard, first aid, etc.
 - C. Furnish outside agencies SDSs. This includes fire department, paramedics and hospital.
- X. Organize Team to Contain the Situation
 - A. Evaluate problems associated with online units and units removed from service.
 - B. Identify and isolate dangerous areas.
 - C. Provide personnel, engineering and materials to repair damaged equipment.
- XI. Call out Additional Personnel as Required
- XII. Assess Damage for Media Reporting Purposes

To ensure consistency in the release of information, a single qualified spokesman will handle interface with news media. For CECP Energy Station, the spokesman will be Senior Director of Wholesale Public

Relations and Media Relations. Any telephone calls or inquiries relating to the incident will be directed to this person.

- XIII. Establish an Emergency Communication Center at the Control Room, if necessary.
 - A. Plant activities during an emergency will be recorded in chronological order in the emergency communication center.
- XIV. Secure Plant Perimeter
 - A. Operations will be responsible in performing this function
 - B. Only authorized persons will be allowed on site.
 - C. Secure plant perimeters, direct traffic, document all personnel entering and leaving station and limit access to authorized personnel only.
 - D. Contact the family members of the injured who were transported to hospitals.
- XVI. Establish On-Site Teams for Around the Clock Coverage (if- required)

During the crisis, management personnel will supervise and coordinate around-the-clock teams through the unstable and transition periods. This surveillance will continue until conditions stabilize and there is no further danger to personnel and equipment.

HIGH WIND CONDITIONS

Important Contact List (for more – see Emergency Contact List)

Where to call	Phone number	Person making the call
Emergency & Ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant damages	(302) 381-6332 Cell	CECP Manager
NRG Spokesman: Manager, Communications (Ann Duhan) – for requests from the media/public about the situation	713-562-8817	CECP Manager

Note: Plant structures are designed to withstand high wind but considerable plant damage could occur with winds of lesser magnitude.

- I. Assess Plant Status
 - A. If high winds occur, and when applicable, notify the persons on the Contact List above to alert them of potential plant problems and update them on weather conditions in the area.
 - B. Notify the persons if the station sustains major damage, is disabled, or placed on restricted load due to the wind.
 - C. In the event of high winds:
 - 1. Check and monitor condition of all structures, especially those constructed of fiberglass or metal. Inspections should be conducted from the upwind side of any structure if possible. Use checklist provided in this section.
 - 2. Close all doors tightly to prevent damage to mechanical and electrical apparatus from blowing particles.
 - 3. Call out operating and maintenance personnel as required for assistance.
 - D. Precautions
 - 1. Wear close fitting safety glasses
 - 2. Avoid high areas
 - 3. Don't use the overhead crane

4. Exercise caution when driving vehicles. Blowing particles can create poor visibility.

RAIN- WIND STORMS (WITH GUSTS ABOVE 32 MPH) PREPARATION CHECKLIST

BEFORE

 \Box Control room will monitor weather during an event

- □ Walk site conduct pre-rain inspection day before. Identify corrective actions needed.
- \Box Remove temporary covers from shade structures
- \Box Secure lids/ trash cans/other items that generally roll/blow during storms
- □ Have extra absorbent towels/rags in admin building to keep floors dry
- □ Make sure phones fully charged, carts/vehicles fully fueled, comm systems working properly

 \Box Anticipate areas that flood during rain, clear those areas of any sitting material (N of warehouse) if possible

 \Box Have straps or other means on hand to brace/anchor yard signs, storage, or other items as needed.

□ Evaluate roof mounted equipment – strap/secure if needed

DURING STORM

 \Box Monitor property for any damage, if safe to do so.

AFTER

- □ Walk site and inspect for any damage. Report to management any urgent findings
- \Box Inspect bioswale area to verify condition is normal
- \Box Restore temporary covers from shade structures

Signature

Date

BOMB THREAT

Important Contact List	for more – see Emergency	Contact List)
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Where to call	Phone number	Person making the call
Emergency, Ambulance and Police	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant damages	(302) 381-6332 Cell	CECP Manager
Corporate Security (Aaron Malady)	(713) 537-2730	CECP Manager
NRG Spokesman: Manager, Communications (Ann Duhan) – for requests from the media/public about the situation	713-562-8817	CECP Manager
California Energy Commission Anwar Ali	916-698-7498	CECP Environmental Manager
Federal Bureau of Investigation (FBI)	(310)477-6565	Operating Authority or CECP Manager

Note: Bomb threats may be received by telephone, mail, e-mail, or other means.

I. Discovery

- A. For bomb threats received by telephone, the person who receives the threat shall:
 - 1. Remain calm and try to keep the caller talking.
 - 2. Record all information and exact comments made by the caller accurately. Fill out the Bomb Threat Checklist AS COMPLETELY AS POSSIBLE!
 - 3. Do not transfer the bomb threat call to another employee.
 - 4. Do not hang up first.
- B. For bomb threats received by mail, report it to the management.
- C. If a suspicious item has been sent to the facility by mail or delivery service, relocate it to a nearby segregated area. Since the item has already been handled by many people, it should be safe for relocating.
- II. Notification

- A. Report the threat to the CECP Management IMMEDIATELY.
- B. Call 911 to report the threat to the local law enforcement.
- C. Notify the dispatcher, if the unit operation is affected.
- D. Contact the Corporate Security Manager.
- III. Assessment CECP management will evaluate the available information and make appropriate responding procedures whether:
 - A. To have the employees to move to the areas where they typically receive daily work assignments for check-in and for further instructions.
 - B. To activate the plant Emergency Notification System to evacuate the plant.
 - C. The personnel are to return to their workstations when the plant management determines it is safety to do so.
- III. Response
 - A. Employees/contractors shall follow directions issued by two-way radio system or by supervision in charge.
 - B. Visitors/vendors are the responsibility of the personnel they are visiting (Station Contact).
 - C. Assign personnel to monitor/control automotive and pedestrian traffic in and out of the facility.
 - IV. CECP management is to decide if the personnel would need to search the plant to look for a suspicious package that may contain an explosive material. Refer to section 5.1 Bomb Threat Policy in the Operations Security Plan and the NRG Corporate Policy for Bomb Threat Response (SEC-2911) for the threat evaluation procedures.
- V. Establish an Emergency Communication Center (if necessary) at the Control Room. Station activities during an emergency will be recorded in chronological order in the emergency communication center.
- VI. Media reporting

To ensure consistency in the release of information, a single NRG corporate spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant.

Carlsbad Energy Center Project Emergency Action Plan

BOMB THREAT CHECKLIST				
NRG Energy, Inc. Bomb Threat Checklist	CALLER'S VOICE			
PLACE THIS CARD UNDER YOUR TELEPHONE	Calm	Soft	Stutter	Whispered
QUESTIONS TO ASK	Laughter	Rasp	Rapid	Normal
1. When is the bomb going to explode?	Nasal	Angry	Loud	Disguised
	Slow	Crying	Deep	Distinct
2. Where is the bomb right now?	Slurred	🗌 Lisp	Ragged	Cracking Voice
3. What does the bomb look like?	Familiar	Accent ar, who did it s	Excited	Deep Breathing
4. What kind of bomb is it?	BACKGROUND SOUNDS			NDS
5. What will cause the bomb to explode?	Street Noises		ear [Long Distance
6. Why was the bomb placed?	Voices	□ M	otor [Phone Booth
 The same series praced? 	Animal Noise	s 🗆 si	atic [Office Noises
7. Did you place the bomb?	PA System		all Phone	House Noises
9. What is your name?	Music		cal] Factory Noises
	Other (Please	e specify):		
EXACT WORDING OF BOMB THREAT	B	OMB THR	EAT LANG	UAGE
	Well Spoken	(educated)	Incohe	erent
	Foul		Messi	age Read
	Taped		Irratio	nal
	Remarks:			
	Your Name:			
	Your Title:			
	Phone Number:			
Sex of caller: Race:	Date Checklist C	ompleted:		
Length of call: Age:	Call 911 w	ith this in	formation	immediately
Telephone number at which call is received:	1	Notify you	r Supervis	sor
Date call Time call received:	Call Corp	orate sec	unity at 71	6-725-8165
BOMB THREAT	во	MB	THR	EAT

TERRORIST ACTIVITY

Where to call	Phone number	Person making the call
Emergency. Ambulance and Police	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant damages	(302) 381-6332 Cell	CECP Manager
Corporate Security (Aaron Malady)	(713) 537-2730	CECP Manager
NRG Spokesman: Manager, Communications (Ann Duhan) – for requests from the media/public about the situation	713-562-8817	CECP Manager
California Energy Commission Anwar Ali	916-698-7498	CECP Environmental Manager
Federal Bureau of Investigation (FBI)	(310)477-6565	Operating Authority or CECP Manager

Note: It is the CECP Management's objective to provide maximum protection to station personnel, consistent with providing electrical service to our customers during periods of disturbance. It is expected that in such instances, law enforcement agencies will establish boundaries delineating the trouble area(s) and will set forth rules for limited access. CECP uses a three-level system of security, which should be adhered to in time of uncertainty.

I. Discovery

The person who discovers a terrorist activity shall immediately inform the Control Room with the following information:

- A. Discoverer's name and location.
- B. Exact location of terrorist activity.
- C. Any apparent conditions or hazards that could increase the level of danger.
- II. Levels of system of security
- **Level 3** When there is an increased possibility of a terrorist act, but the nature and extent of the act is unpredictable.

- A. Ensure ability to identify all on site personnel.
- B. Check the identification of all visitors and contractors. Do not grant access unless you are absolutely sure the person has legitimate identification.
- C. Increase spot checks of vehicles, people, mail, packages, briefcases, etc. entering and leaving the site.
- D. Report suspicious activity (e.g., people, vehicles, packages, etc.) to the supervisor.
- E. Frequently check areas where hazardous substances are stored and ensure storage-tank valves are protected. Check containment systems around storage facilities.
- F. Check and repair, as necessary, fences, gates and lighting.
- G. Use a minimum number of access points and close and lock the points not used.
- H. Contact firms that provide guard services to your site and ask what steps they are taking to furnish guards on short notice.
- I. Contact emergency agencies and furnish a list with phone numbers of critical site personnel.
- J. Ensure emergency agencies serving your location have directions to your site.
- K. Request periodic patrol checks from the police agency serving your facility.
- L. Look ahead to requirements associated with Levels 1 and 2.
- **Level 2** When the threat of a terrorist act is more predictable, or terrorist activity exists.
 - A. Review requirements associated with Level 3.
 - B. Communicate information to employees and encourage community security awareness of suspicious activity.
 - C. Evaluate assigning security guards to sites, especially during nondaylight hours, weekends and holidays, and ensure guards have specific direction on their duties.
 - D. Check, to the extent possible, all vehicles, people, mail, packages, briefcases, etc. entering and leaving the site and placard visiting vehicles indicating they have been checked by security.

- E. Assign areas of the site to employees/guards and require periodic inspections of the areas for suspicious items and activity.
- F. Advise all personnel to inspect deliveries, packages, mail, etc. and notify the supervisor if there is any concern.
- G. Report trespassers.
- H. Develop steps that need to be taken to seal off an area, if prudent (i.e. collision barriers, heavy equipment, etc.).
- I. Prohibit non-company vehicle parking within 30 yards of critical equipment.
- J. Practice emergency action plans.
- K. Increase communication with the police agency serving your facility and request more frequent patrol checks.
- L. Review requirements associated with Level 1.
- **Level 1** When a terrorist act is imminent or has occurred.
 - A. Review requirements associated with Levels 2 and 3.
 - B. Refuse access if people do not have positive identification or do not have a legitimate need to enter the site.
 - C. Reduce site ingress and egress points to an absolute minimum.
 - D. Check all vehicles (including inside, outside and undercarriage), people, mail, packages, briefcases, etc. entering and leaving the site and placard vehicles indicating they have been checked by security. If possible, offload all vehicles outside the site's perimeter fence and move the deliveries inside the fence using company vehicles and personnel.
 - E. Use security guards round-the-clock.
 - F. Guards should continually check the perimeter fence and critical facilities while staying in communication with site personnel via two-way radio.
 - G. Install collision barriers around critical facilities, if prudent.
 - H. Request consistent patrol checks from the police agency serving your facility.
- III. Media reporting

To ensure consistency in the release of information, a single NRG corporate spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant.

INTRUSION

Important Contact List (for more – see Emergency Contact List)

Where to call	Phone number	Person making the call
Emergency & Police	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant damages	(302) 381-6332 Cell	CECP Manager
Corporate Security (Aaron Malady)	(713) 537-2730	CECP Manager

Note: Intrusion is defined as an act of an unauthorized person or persons entering station property.

- I. Notification
 - A. Station employees should monitor the intruder's movements in the plant area but do not attempt to physically restrain the individual(s).
 - B. Call the persons on the above list, including 911 regarding the intruder's movements, location, activities and physical attributes such as carrying a weapon or handbag.
 - C. The location of anything dropped or left behind by the intruder should be documented and left for local authorities to inspect and remove.

Note: Avoid confrontation at all cost.

SABOTAGE REPORTING

Where to call	Phone number	Person making the call
Emergency & Ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant damages	(302) 381-6332 Cell	CECP Manager
Corporate Security (Aaron Malady)	(713) 537-2730	CECP Manager
NRG Spokesman: Manager, Communications (Ann Duhan) – for requests from the media/public about the situation	713-562-8817	CECP Manager
California Energy Commission Anwar Ali	916-698-7498	CECP Environmental Manager
Federal Bureau of Investigation (FBI)	(310) 477-6565	Operating Authority or CECP Manager

Important Contact List (for more – see Emergency Contact List)

Note: Sabotage is an intentional obstruction of an activity, or willful and malicious destruction of other's property. It is aimed at weakening a government or corporation through subversion, obstruction, disruption, or destruction. One who engages in sabotage typically tries to conceal their identities because of the consequences of their actions.

- I. When there is an increased possibility of a sabotage act, but the nature and extent of the act is unpredictable:
 - A. Identify all plant personnel.
 - B. Check the identification of all visitors and contractors. Do not grant access to the plant unless the person has legitimate identification.
 - C. Increase spot checks of vehicles, people, mail, packages, briefcases, etc. entering and leaving the site.
 - D. Report suspicious activity (e.g., people, vehicles, packages, etc.) to the station management.
 - E. Frequently check areas where hazardous substances are stored and ensure storage-tank valves are protected. Check containment systems around storage facilities.

- F. Check and repair, as necessary, fences, gates, and lighting.
- G. Use a minimum number of access points and close the points not used.
- H. The emergency responders are those who trained in the Hazardous Waste Operations, First Responder Level (HAZWOPER).
- I. Contact emergency agencies and furnish a list with phone numbers of critical plant personnel.
- J. Ensure emergency agencies serving the station location have directions to the station.
- K. Request periodic patrol checks from the police agency serving CECP area.
- L. Be cautious how information pertaining to security is communicated to employees and the media.
- M. Look ahead to requirements associated with Security Levels 1 and 2 (see the Terrorist Activity procedure).
- II. When a sabotage event is imminent or has occurred.
 - A. Refuse access if people do not have positive identification or do not have a legitimate need to enter the station.
 - B. Reduce station ingress and egress points to an absolute minimum.
 - C. Check all vehicles (including inside, outside and undercarriage), people, mail, packages, briefcases, etc. entering and leaving the station and placard vehicles indicating they have been checked. If possible, offload all vehicles outside the station's perimeter fence and move the deliveries inside the fence using company vehicles and personnel.
 - D. If can be arranged, use security guards round-the-clock.
 - E. Guards should continually check the perimeter fence and critical equipment while staying in communication with station personnel via two-way radio.
 - F. Request consistent patrol checks from the police agency serving CECP.
- III. Media reporting

To ensure consistency in the release of information, a single NRG corporate spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant.

FALL RESCUE PLAN

Where to call	Phone number	Person making the call
Emergency & Ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant injuries	(302) 381-6332 Cell	CECP Manager
Core Injury Management - All employee injuries	(855) 723-3674	Injured employee's supervisor or designee
Director, Operational Safety (Michael Hagenmayer) - This person will notify Cal/OSHA, if applicable	(315) 349-2329 Office (202) 213-9109 Cell	Safety Specialist
California Energy Commission Anwar Ali	916-698-7498	CECP Environmental Manager
Division of Occupational Safety & Health (Cal/OSHA) - Serious employee injury or fatality	(909) 383-4321	Regional Safety Manager

- I. In the event a person falls while wearing a fall arresting device and is trapped in their harness above ground level, the following should be implemented:
 - A. Notify the Control Room. Give as much information as you can, i.e. location, person involved, injury status, level of consciousness, etc.
 - B. The Operating Authority is to call 911. Place an operator at the main gate to direct the rescue vehicles.
 - C. If any contractors have the rescue equipment and trained rescuer on-site, attempt the rescue. While waiting for the fire department personnel to arrive, attempt to rescue the person without exposing additional personnel to hazards by providing ladder, man lift, forklift, etc. to help the victim to support himself.
 - D. Administer first aid as needed.
- II. Time is critical.

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Depending on the person, loss of consciousness, serious injury and/or death can occur in less than 20 minutes. Rescue of an unconscious person is much more difficult, therefore call 911 immediately and provide relevant information about the incident so that the fire department can bring appropriate equipment to the station.

WATER RESCUE

Important Contact List	(for more – see Emergency	^v Contact List)

Where to call	Phone number	Person making the call
Emergency & Ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
Core Injury Management - All employee injuries	(855) 723-3674	Injured employee's supervisor or designee
Director, Operational Safety (Michael Hagenmayer) - This person will notify Cal/OSHA, if applicable	(315) 349-2329 Office (202) 213-9109 Cell	Safety Specialist
Division of Occupational Safety & Health (Cal/OSHA) - Serious employee injury or fatality	(909) 383-4321	Regional Safety Manager

- I. In the event a person falls into water (Pit/Vault/Tank) and needs to be rescued:
 - A. Notify the Control Room. Give as much information as you can, i.e. location, person involved, injury status, level of consciousness, etc.
 - B. Call 911. Place an operator at the main gate to direct the rescue vehicles.
 - C. Do NOT enter the water to assist. If the person in the water is frantic, he/she may drown the rescuer.
 - D. Assist him/her out of the water.
 - E. Administer first aid as needed.

ACTIVE SHOOTER

Important Contact List (for more – see Emergency Contact List)

Where to call	Phone number	Person making the call
Emergency and Police	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant damages	((302) 381-6332 Cell	CECP Manager
Corporate Security (Aaron Malady)	(713) 537-2730	CECP Manager
NRG Spokesman: Manager, Communications (Ann Duhan) – for requests from the media/public about the situation	713-562-8817	CECP Manager
Core Injury Management - All employee injuries	(855) 723-3674	Injured employee's supervisor or designee
California Energy Commission Anwar Ali	916-698-7498	CECP Environmental Manager
Federal Bureau of Investigation (FBI)	(310) 477-6565	Operating Authority or CECP Manager

Note: Active shooter incidents are often over in 10 -15 minutes before law enforcement arrives. Typically, law enforcement is dispatched for final resolution of the event.

The following steps are actions to be taken if an active shooter is identified onsite. Also refer to the Operations Security Plan for steps to report, evacuate, and respond to an active shooter.

- I. Immediate actions to take:
 - A. If any employee observes an armed person or active shooter within the plant, notify the Unit Control Room immediately, if possible and safe to do so.
 - B. The Operating Authority receiving the notification of the active shooter is to **immediately** call 911 to report:
 - 1. Location of the active shooter.
 - 2. Number of shooters.
 - 3. Physical description of shooters.

- 4. Number and type of weapons held by shooters.
- 5. Number of potential victims at the location.
- C. Notify and warn on-site personnel **immediately** using the twoway radio system (while the Operating Authority is calling 911, another person should make this notification if he/she is available):
 - 1. Notify an armed person/active shooter has been observed.
 - 2. The specific location of the active shooter in the plant and his/her description.
 - 3. Determine a location where personnel can safely evacuate to and notify the personnel without alerting the active shooter of the location.
- D. Report the situation to the plant management, if safe to do so.
- II. Responding actions to the active shooter
 - A. If possible, evacuate the area and get to safety:
 - 1. Remain calm.
 - 2. Take immediate action.
 - 3. Evacuate staff and personnel via an evacuation route to a safe area.
 - 4. Leave your belongings behind.
 - 5. No matter the circumstances, if you decide to evacuate, DO NOT attempt to stop and monitor any equipment while exiting.
 - B. Shelter in place, if unable to evacuate:
 - 1. Hide in area out of the shooter's view.
 - Block/barricade entry to your hiding place and lock all doors.
 - 3. Silence your cell phone while hiding.
 - 4. In the event that an Operating Authority determines that an active shooter is attempting to or has entered the Control Room, the Operating Authority is authorized to:
 - a. Barricade in place if this is determined to be the best option, or
 - b. Shut down any operating units (Trip) and seek a safe location or evacuate the plant.
 - C. Act against the shooter only in a last resort:
 - 1. Only when your life is in immediate danger.

Carlsbad Energy Center Project Emergency Action Plan

- 2. Attempt to incapacitate the shooter and act with physical aggression.
- III. Make notifications to the persons on the above Contact List, if possible and safe to do so.
- IV. Media reporting

To ensure consistency in the release of information, a single NRG corporate spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant. The media will not be allowed in the plant.

- V. Incident after-action
 - A. Account for all personnel at a designated assembly area.
 - B. Notification of families of personnel affected by the incident.
 - C. Refer visibly shaken personnel to EAP providers.
 - D. Identify and fill any operational gaps left by the incident.
 - E. Prepare lessons learned report.

PERSONNEL REQUIRED TO STAY ON-SITE DURING AN EVACUATION

Important Contact List (for more – see Emergency Contact List)

Where to call	Phone number	Person making the call
Emergency	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
Core Injury Management - All employee injuries	(855) 723-3674	Injured employee's supervisor or designee

I. Purpose

This procedure is for the personnel who are required to stay in the plant during an emergency evacuation to be self-sufficient.

II. Condition

Because damages to the building and equipment can occur during an emergency situation, employees shall only be required to stay in the plant when it is safe to do so.

III. The number of personnel to stay

If possible, more than one personnel are to be in the plant at a given time during an emergency and they are to communicate to be updated of each other's safety.

IV. Sleep

Find a location where the building structure is safe to use as a shelter. Take turns to sleep to ensure at least one person is monitoring the surrounding.

- V. Emergency food and water are kept in the warehouse.
- VI. Emergency kits located in the warehouse include the following:
 - A. Batteries more in the library at the front of the admin building
 - B. Radio
 - C. Dust masks
 - D. Sleeping bags
 - E. Garbage bags
 - F. Toiletries
 - G. Raincoats

Carlsbad Energy Center Project Emergency Action Plan

- H. Writing tablets and pens
- I. Flashlights in the charging area in the Control Room
- J. Medical supplies in the first aid kits in the Control Room and Warehouse Building.

CONFINED SPACE EMERGENCY RESCUE

Important Contact List	for more – see Emergency	Contact List)

Where to call	Phone number	Person making the call
Emergency	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
Director, Operational Safety (Michael Hagenmayer) - If anyone is injured. This person will notify Cal/OSHA, if applicable	(315) 349-2329 Office (202) 213-9109 Cell	Safety Specialist
California Energy Commission Anwar Ali	916-698-7498	CECP Environmental Manager
Core Injury Management - All employee injuries	(855) 723-3674	Injured employee's supervisor or designee

Note:

- 1. Under any circumstances, no station personnel shall enter a Permit-Required Confined Space (PRCS).
- 2. All contractors and station personnel must comply with NRG Confined Space and LOTO procedures when entering in any confined space.
- 3. Try various methods to make a PRSC safer to enter as a Non-Permit Required Space or as an Alternative Entry Procedure.
- 4. Any entries into PRCS are to be done by trained contractors.
- 5. Prior to entering PRCS, a detailed rescue plan is required.
- 6. Trained and qualified rescuers with rescue equipment are required to be at the PRCS prior to anyone entering it.
- I. Discovery

The person who discovers an emergency in a confined space shall immediately inform the Control Room with the following information.

- A. Discoverer's name and location.
- B. Exact location of the confined space needing a rescue.
- D. Type of emergency or injuries if any.
- E. Any apparent conditions or hazards that could increase the level of danger (i.e., chemicals, flammable liquids or gases).
- F. Description of any action being taken or about to be taken.

- II. Notification
 - A. The Operating Authority is to:
 - Gather information from the person reporting the emergency. Use the Emergency Response Information Form (addendum 1).
 - 2. Notify 911, if necessary.
 - 3. Notify the station management.
- III. Confined Space Rescue
 - A. Rescuers
 - 1. Unless the contractor has a written rescue plan and trained rescuers onsite, no one is allowed to enter a PRCS.
 - 2. When anyone is entering a Permit Require Confined Space (PRCS), trained rescuers (contractors) are required to be at that confined space ready to provide a rescue. Only trained and qualified rescuers are to perform any rescue activities.
 - 3. For a non-Permit Required Confined Space, the qualified rescuers (contractors) are to perform the rescue, if they are available in the station. If not, the CO is to call 911 to request the fire department personnel to handle the rescue.
 - B. Rescue procedure:
 - 1. Barricade the affected area.
 - 2. The CO, Confined Space Entry Supervisor, and rescuers are to evaluate the hazards in the confined space before attempting a rescue.
 - 3. The CO and the Entry Supervisor are to verify the rescue procedure.
 - 4. Rescuers are to attempt a non-entry rescue using a tripod with retrieval system (harness, lanyards and winch) before entering the confined space.
 - 5. If the rescuer(s) must enter the confined space, the Entry Supervisor and CO must authorize the entry.
 - 6. Pre-entry job briefing shall be conducted by the Entry Supervisor and discuss about the hazards in the confined space.
 - 7. Before the entering a PRCS, hazards in the confined space need to be controlled, including atmospheric hazards. Verify by testing oxygen, combustible gases and vapors, and then for toxic gases and vapors.

- 8. The rescuers must wear applicable PPE, including respirators and follow the confined space entry procedure.
- 9. Once the injured person is removed from the space, provide applicable first aid and CPR until Emergency Medical Service arrives.
- IV. Establish an Emergency Communication Center (if necessary) at the Control Room. Plant activities during an emergency will be recorded in chronological order in the emergency communication center.
- V. Media reporting

To ensure consistency in the release of information, a single NRG corporate spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant. The media will not be allowed in the plant.

CATASTROPHIC SYSTEM FAILURE RESPONSE

Important Contact List (for more – see Emergency Contact List)

Where to call	Phone number	Person making the call
Emergency	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant failures	(302) 381-6332 Cell	CECP Manager
NRG Spokesman: Manager, Communications (Ann Duhan) – for requests from the media/public about the situation	713-562-8817	CECP Manager
Global Infrastructure Partners – Michael O'Toole	(312) 835-8527 Cell	CECP Environmental Manager
California Energy Commission Anwar Ali	916-698-7498	CECP Environmental Manager
Core Injury Management - All employee injuries	(855) 723-3674	Injured employee's supervisor or designee

Note:

- 1) Catastrophic System Failure (CSF) is a failure of any power plant system's integrity, which would result in the sudden and uncontrollable release, water, fuel, air, chemicals, etc. The failure may or may not have displayed any warning signs and may have begun as a fire or explosion related incident that escalated into a catastrophic system failure. This type of failure places all personnel in the station at risk.
- 2) Refer to applicable emergency procedures in this Emergency Action Plan that are applicable during a CSF incident.

WARNING: A CSF would require an immediate implementation of the Station Emergency Action Plan and all if not most of the emergency support documents contained within.

Q. Discovery

The person who discovers a catastrophic system failure (CSF) shall immediately inform the Control Room with the following information. Use 3-way communication to verify the information between the persons reporting and receiving the report.

- A. Discoverer's name and location.
- B. Exact location or system involved with the CSF.
- C. Name or the equipment/system involved with CSF, symptoms or characteristics of a CSF witnessed and events that could lead to a CSF.
- D. Type of injuries, if any.
- II. Notification The Operating Authority is to immediately:
 - A. Notify CECP Management
 - B. Notify 911.
 - 1. Types(s) of incident(s).
 - 2. Number of injured persons
 - 3. Natures of injuries
 - 4. Specific request (HAZMAT, heavy rescue, fire, ambulance, etc.)

Note: Assign someone to the main gate to direct emergency vehicles entering the site.

C. Notify station personnel by making an announcement via the plant paging system of the following. Repeat it 3 times:

ATTENTION ALL PERSONNEL!

THERE IS A (emergency situation detail) AT (location).

STAY AWAY FROM THIS LOCATION

- D. If personnel evacuation is necessary, follow the Personnel Evacuation procedure in this Emergency Action Plan.
- E. Notify SDGE Real-Time Desk of possible issues with the load or operation of the unit(s).
- III. Determine Corrective Actions
 - A. The Operating Authority is to have an Operator(s) to assess the incident scene to determine the situation.
 - B. Communicate the findings with the Control Room.
 - C. Execute internal corrective measures that have been directed by the Operating Authority such as:

- 1. De-energization of electrical systems
- 2. Shutting down process systems
- 3. Removing equipment/system from service
- 4. Adjusting station/unit/equipment loading based on the incident
- D. Implement emergency actions based on assessment of circumstances
- IV. Establish an Emergency Communication Center (if necessary) at the Control Room.
 All plant activities will be recorded in chronological order, including equipment problems, personnel injuries, calls, actions taken, updates on station status and generation availability.
- IV. Post Catastrophic System Failure Action
 - A. Re-Assess Plant Status
 - B. Notify the Control Room when the incident is secured or over.
 - C. If necessary, the Operating Authority is to conduct a visual inspection of the CSF scene to verify the status.
 - D. The Operating Authority is to notify station management of the status.
 - E. Notify personnel of the status by stating the following 3 times: ATTENTION ALL PERSONNEL!

THE (emergency situation) IS SECURED

- IV. Post Catastrophic System Failure Review
 - A. If necessary, CECP Management is to conduct a visual inspection of the CSF scene.
 - B. All station safety systems must be identified, and a plan developed to restore them to service.
 - C. Environmental impact must be determined.
 - D. Applicable agencies must be notified.
 - E. Fire/Rescue equipment must be inventoried and returned to service.
 - F. Post incident critique must be conducted.
 - G. Submit the post review report of the CSF to applicable station and corporate personnel.

- V. Drill An annual drill is to be conducted with a scenario relating to CSF.
- VI. Media reporting

To ensure consistency in the release of information, a single NRG corporate spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant. The media will not be allowed in the plant.

Emergency Response Information Form

Type of		Time Reported:		$AM \square PM \square$
Emergency: Specific Location Of	<u> </u>			
Emergency:				
Person Reporting:		Reporting	From	
Injuries (Nature/Exter	nt/Number I		i tolli.	
		injurea).		
Actions Being Taken	:			
Assistance Needed:				
		~ ~ ~		
Weather Conditions (circle): R	Rainy Sunny	Cloudy Foggy	Windy
Wind Direction	1 >	Speed mph		
Alarms Sounded(circ		ire Bomb C	Chemical Release	Evacuation
Supervision Contacte			Time:	$AM \square PM \square$
Outside Agencies Co	ntacted:			
General Comments:				
General Comments.				

Safety & Health Incident Notification Instructions - California

Emergency

This includes, but may not be limited to a work related fatality or hospitalization of an employee or contractor for treatment other than observation, fire/explosion/rescue requiring offsite response, spill/release requiring community evacuation or shelter-in-place and any event that results in media presence or adverse attention:

1. Once the scene has been stabilized and medical treatment provided as necessary, the Plant Manager or designee will immediately (within the hour) verbally contact the Vice President responsible for the affected facility, plant or office and provide the following information:

- Names of injured individuals, company if contractor, nature of injuries and treatment
- Brief description of the incident, including plant status at the time
- Description of any off-site impact and actions taken
- Apparent cause(s) of the incident if obvious; do not speculate
- Immediate corrective actions
- Additional response/follow up within the next 24 hours
- Need for additional resources (communications, crisis management, etc.) or assistance as required
- Media and/or agency presence

2. The Vice President responsible for the affected facility, plant or office shall determine the need for additional upward notification.

3. Within 8 hours, Plant Manager/designee is responsible for creating the NRG Energy Event Notification Form and distributing electronically.

4. If a work related incident involving an employee results any one of the following Cal/OSHA must be contacted verbally within 8 hours: death, hospitalization with treatment for more than 24 hours, loss of any member of the body (loss of bone) or permanent disfigurement (tissue damage). The Regional Safety Director is responsible for notifying Cal/OSHA.

5. If a work related on-site incident involving a contract employee or contractor results any one of the following, the contract/contractor company must notify Cal/OSHA verbally within 8 hours: death, hospitalization with treatment for more than 24 hours, loss of any member of the body (loss of bone) or permanent disfigurement (tissue damage). NRG safety will ensure that each company involved contacts OSHA accordingly.

6. If the event results in personal injury to an employee, employee's supervision will notify Core Injury Management (855-723-3674) immediately. If off-site treatment is provided, Supervision or Local Safety must notify Worker's Comp according to site specific procedures as soon as practical.

Serious Event Notification

This includes, but is not limited to, an injury or illness that is likely to be an OSHA recordable, fire/explosion or spill response by on-site emergency response personnel, off-site personal injury due to automobile collision or other events while on company business, property damage >\$10,000 due to employee actions, OSHA or other agency inspections and near misses with potentially severe consequences (could reasonably have resulted in a fatality, injury or illness requiring surgery or hospitalization, fractures, amputation, etc.)

1. An event involving acute personal injury to an employee requires immediate notification to Core Injury Management (855-723-3674) by the employee's supervision. Supervision must also notify Worker's Comp according to site specific procedures as soon as practical if offsite treatment is provided.

2. Within eight (8) hours of a serous notification event, Plant Manager/designee will notify the Vice President responsible for the affected facility, plant or office and provide the following information:

- Names of injured individuals, company name if contractor, nature of injuries and on-site treatment provided
- Brief description of the incident
- Description of any off-site impact and actions taken
- Apparent cause(s) of the incident if obvious; do not speculate
- Immediate corrective actions
- Additional response/follow up within the next 24 hours if required
- Need for additional resources or assistance as required

Carlsbad Energy Center Project Emergency Action Plan

• Media and/or agency presence

3. Within 24 hours, Plant Manager/designee is responsible for creating the NRG Energy Event Notification Form and distributing electronically. Within this same 24 hour period Plant Manager/designee will ensure an incident analysis is initiated, including the creation and distribution of an initial incident report.

Minor Incidents

This includes, but is not limited to, small cuts, scratches or bruises and near misses with minor severity potential. Employees must report these events as soon as practical but no later than the end of the work shift. If a NRG employee is injured, employee's supervision will contact Core Injury Management (855-723-3674) upon learning of the incident.

If at any time in the notification process the individual you are contacting is unavailable, move up to the next contact person in the process.

CECP

Emergency Evacuation Roster

Name	Signature

Plant Map and Evacuation Assembly Area

(To be completed by the Environmental Specialist or a designee)

EMERGENCY RELEASE FOLLOW - UP NOTICE REPORTING FORM

Α	BUSINESS NAME FACILITY EMERGENCY CONTACT & PHONE NUMBER () -
В	INCIDENT MO DAY YR TIME OES OES DATE I I I I I
С	INCIDENT ADDRESS LOCATION CITY/COMMUNITY COUNTY ZIP
	CHEMICAL OR TRADE NAME (print or type) CAS Number
Б	CHECK IF CHEMICAL IS LISTED IN 40 CFR 355, APPENDIX A CHECK IF RELEASE REQUIRES NOTIFI - CATION UNDER 42 U.S.C. Section 9603 (a)
	PHYSICAL STATE CONTAINED PHYSICAL STATE RELEASED QUANTITY RELEASED SOLID LIQUID GAS SOLID LIQUID GAS
	ENVIRONMENTAL CONTAMINATION TIME OF RELEASE DURATION OF RELEASE AIR WATER GROUND OTHER DAYS HOURS_MINUTES
	ACTIONS TAKEN
Б	
	KNOWN OR ANTICIPATED HEALTH EFFECTS (Use the comments section for addition information)
F	CHRONIC OR DELAYED (explain)
	NOTKNOWN (explain)
	ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS
G	
	COMMENTS (INDICATE SECTION (A - G) AND ITEM WITH COMMENTS OR ADDITIONAL INFORMATION)
н	
	CERTIFICATION: I certify under penalty of law that I have personally examined and I am familiar with the information sub mitted and believe the sub mitted information is true, accurate, and complete. REPORTING FACILITY REPRESENTATIVE (print or type)
	SIGNATURE OF REPORTING FACILITY REPRESENTATIVE DATE:

Instructions for Emergency Release Follow-Up Notice Reporting Form

GENERAL INFORMATION:

Chapter 6.95 of Division 20 of the California Health and Safety Code requires that written emergency release follow-up notices prepared pursuant to 42 U.S.C. § 11004, be submitted using this reporting form. Non-permitted releases of reportable quantities of Extremely Hazardous Substances (listed in 40 CFR 355, appendix A) or of chemicals that require release reporting under section 103(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 [42 U.S.C. § 9603(a)] must be reported on the form, as soon as practicable, but no later than 30 days, following a release. The written follow-up report is required in addition to the verbal notification.

BASIC INSTRUCTIONS:

- The form, when filled out, reports follow-up information required by 42 U.S.C § 11004. Ensure that all information requested by the form is provided as completely as possible.
- If the incident involves reportable releases of more than one chemical, prepare one report form for each chemical released.
- If the incident involves a series of separate releases of chemical(s) at different times, the releases should be reported on separate reporting forms.

SPECIFIC INSTRUCTIONS:

Block A: Enter the name of the business and the name and phone number of a contact person who can provide detailed facility information concerning the release.

Block B: Enter the date of the incident and the time that verbal notification was made to OES. The OES control number is provided to the caller by OES at the time verbal notification is made. Enter this control number in the space provided.

Block C: Provide information pertaining to the location where the release occurred. Include the street address, the city or community, the county and the zip code.

Block D: Provide information concerning the specific chemical that was released. Include the chemical or trade name and the Chemical Abstract Service (CAS) number. Check all categories that apply. Provide best available information on quantity, time and duration of the release.

Block E: Indicate all actions taken to respond to and contain the release as specified in 42 U.S.C. § 11004(c).

Block F: Check the categories that apply to the health effects that occurred or could result from the release. Provide an explanation or description of the effects in the space provided. Use Block H for additional comments/information if necessary to meet requirements specified in 42 U.S.C. § 11004(c).

Block G: Include information on the type of medical attention required for exposure to the chemical released. Indicate when and how this information was made available to individuals exposed and to medical personnel, if appropriate for the incident, as specified in 42 U.S.C. § 11004(c).

Block H: List any additional pertinent information.

Block I: Print or type the name of the facility representative submitting the report. Include the official signature and the date that the form was prepared.

MAIL THE COMPLETED REPORT TO: Chemical Emergency Planning and Response Commission (CEPRC) / Local Emergency Planning Committee (LEPC) Attn: Section 304 Reports, 3650 Schriever Avenue, Mather, CA 95655

Emergency Equipment Locations

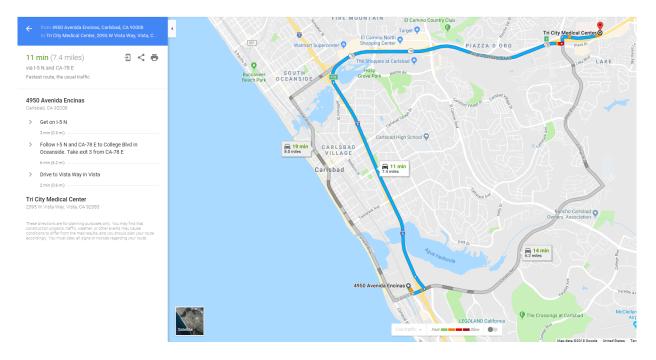
(See attachment at end of document)

Map to the Nearest Hospital

Tri-City Medical Center

2095 W. Vista Way Vista, CA 92083 (760) 724-8411

Driving direction from the CECP:



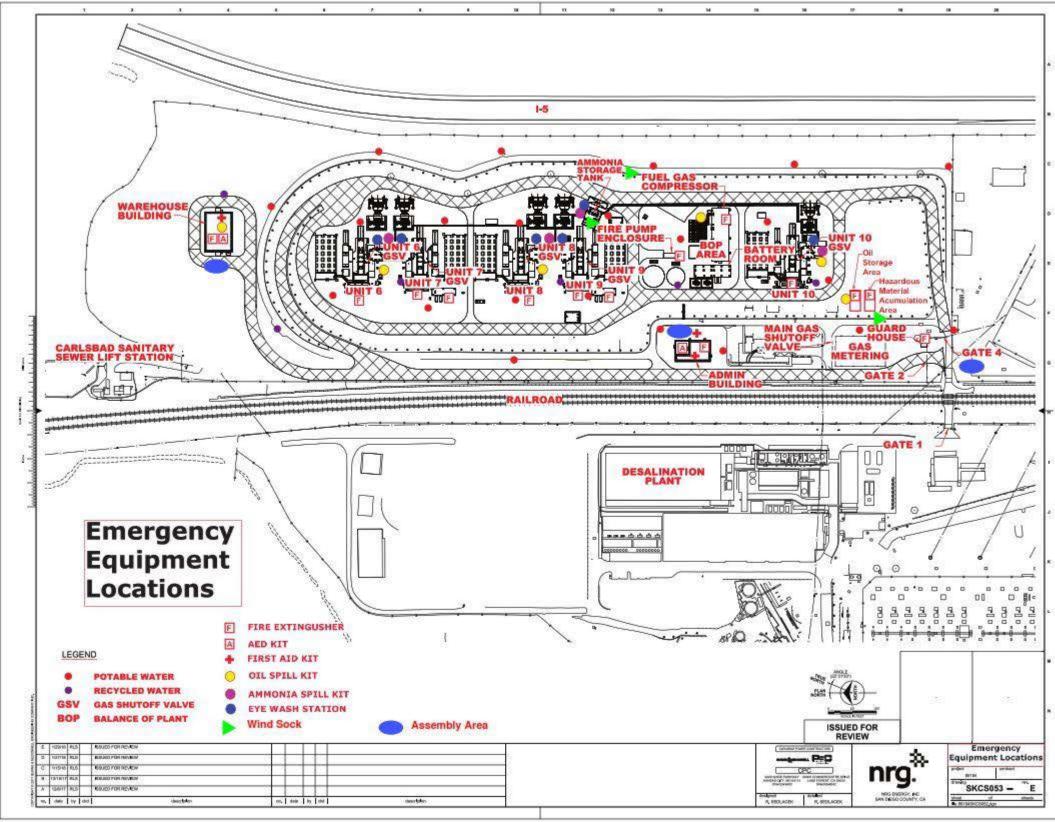
Revisions History

Date	Person made revision	Reason
3/27/2018	Paul Mattesich	Initial Draft
6/26/2018	Scott Seipel	Revisions based on CEC Review
10/15/2020	Ryan Goerl	Revisions to notifications in several sections. Updates to contact numbers, PA system updates, communication clarifications, Encina demolition activities
8/13/2021	Ryan Goerl	Added Ammonia release section. Changed media reporting language. Updated contact numbers.
10/11/21	Paul Mattesich	Replaced Ryan Goerl with Paul Mattesich on interim basis during job vacancy
2/3/22	Paul Mattesich	Updated phone numbers, added bomb threat checklist, severe wind checklist
7/5/2022	Paul Mattesich	Added Ryan Stewart
2/2/2023	Ryan J. Stewart	Updated phone numbers and contact information
2/16/2024	Ryan J. Stewart	Updated phone numbers and contact information

Locations of Hardcopies of the Emergency Action Plan

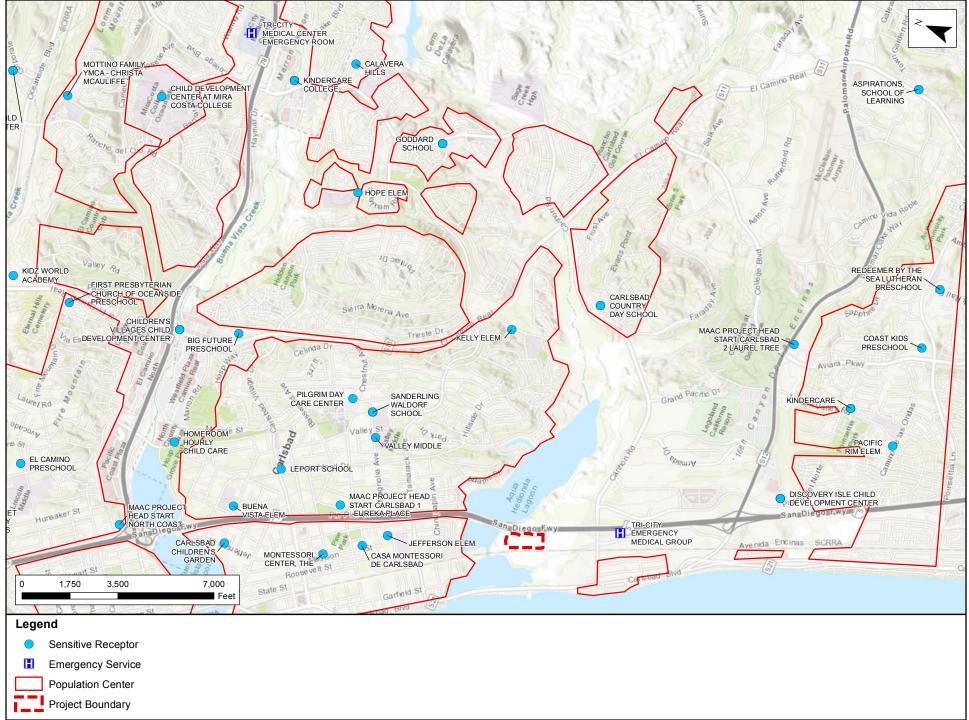
- Control Room under the phone
- Control Room bookcase
- Plant Manager's Office
- O&M Supervisor's Office
- Environmental Specialist's Office
- Local Fire Department

Carlsbad Energy Center Project Emergency Equipment Location Map

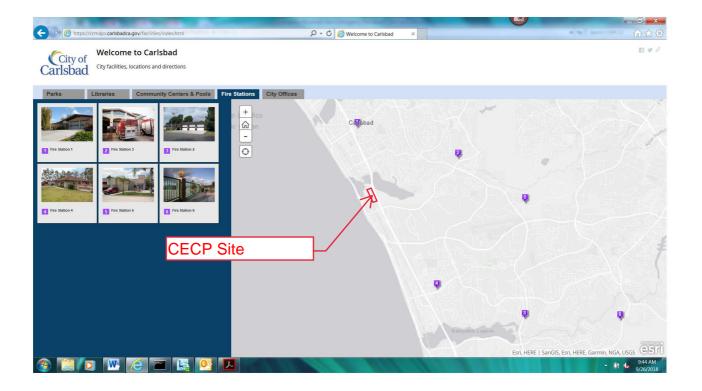


Carlsbad California Population Centers Map & City of Carlsbad Fire Department Fire Station Locations Map

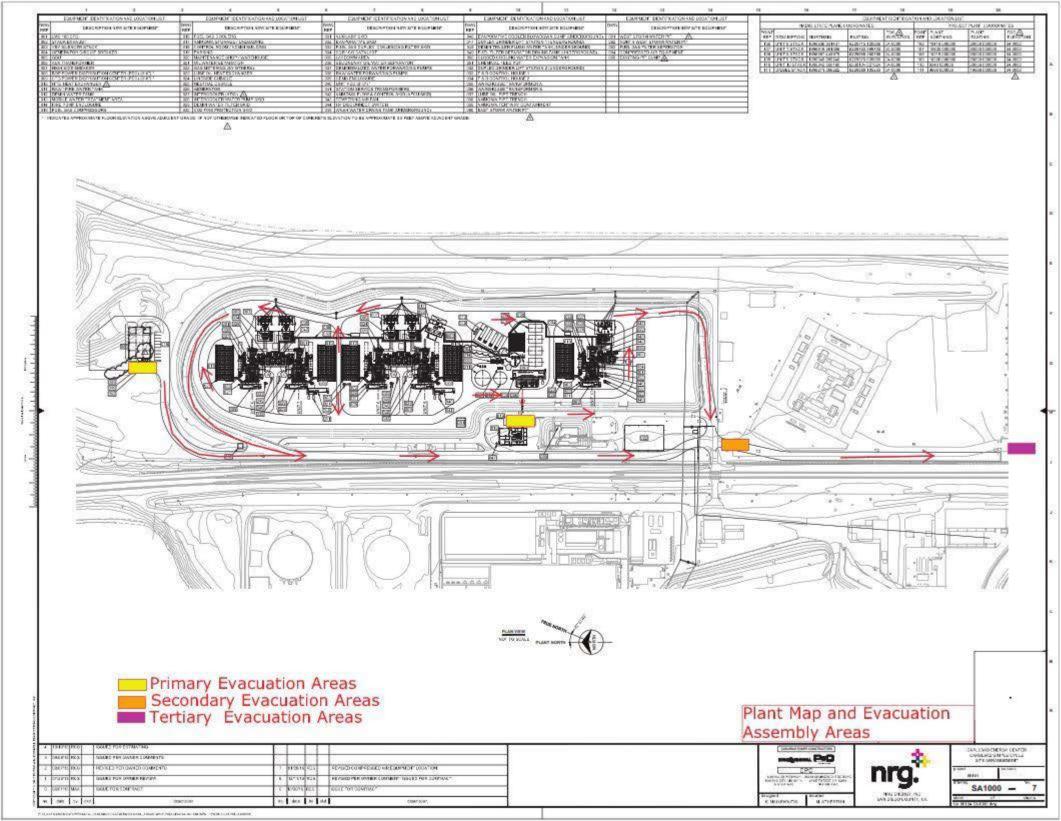
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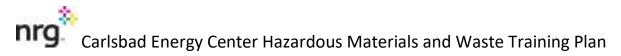


Source: Esri - World Imagery; NAD 1983 StatePlane California VI FIPS 0406 Feet



Carlsbad Energy Center Project City of Carlsbad Fire Department Fire Station Locations Carlsbad Energy Center Project Plant Map and Evacuation Assembly Areas





1. Staff list and HazMat Role – Personnel Up to Date as of February 2024:

Paul Mattesich – Plant Manager: Manages all staff, assigns Hazardous Materials duties, ensures training occurs per regulations, submits Hazardous Materials Business Plan.

Brian Wood – Operations Manager: Manages Operations and Maintenance Staff, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Anthony Kalis – Engineer: Handles some hazardous materials (IE service oil, sodium hypochlorite totes).

David Brown - Business Manager: No active hazardous materials role

Ryan Stewart – Environmental, Health, and Safety Specialist: Manages hazmat programs, signs manifests for shipped wastes, tracks waste, conducts inspections, labeling, remote drums.

Patricia Hurtado – Plant Clerk: Secondary for hazmat programs, signs manifests for shipped wastes, tracks waste, conducts inspections, labeling, remote drums.

Aaron Siegel – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Jeff Ryan – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Craig Lobo – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Greg Munsell – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Rob Burton – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Kyle Campbell – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Shawn Reilly – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Ben Miller – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Hamid Hadidi – Instrumentation, Electrician Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Robert Haman – Instrumentation, Electrician Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Scott Edwards – Total Western Warehouse Contractor: Forklift certified, primary driver for loading drums to shipper, handles hazardous materials (IE service oil, sodium hypochlorite totes), handles hazardous wastes.

2. Provided Training:

2.1 All NRG staff is given the following training.

2.1.1 Annual:

- HMBP Training: All required elements in HMBP rules, HazMat emergency response, fire response, wildlife response, evacuation, elements of SPCC, Satisfies RMP training requirements.
- Emergency Response (Site Specific): Emergency Action Plan, Evacuation, Medical Emergencies, High Winds, Terrorism, Sabotage, system failures, Earthquake.
- Emergency Response (NRG Provided): NRG Provided Online Training
- Site Orientation: General site overview, active shooter, HazMat spill response, emergency contacts, wildlife requirements.
- SPCC Training (Site Specific): Classroom and presentation based.
- Fire Fighting: Online Training and Hands On
- Lead Awareness: NRG Provided Online Training
- Hexavalent Chromium Control: NRG Provided Online Training
- Asbestos Awareness: NRG Provided Online Training
- Ammonia Safety: NRG Provided Online Training
- Job Briefing: NRG Provided Online Training. Includes HazMat analysis/spill potential prior to work.
- Materials of Trade: NRG Provided Online Training
- HAZWOPER Awareness: NRG Provided Online Training
- Incident and Injury Reporting: NRG Provided Online Training
- Hazard Recognition: NRG Provided Online Training.
- General PPE Awareness: NRG Provided Online Training

2.1.2 Every 2 Years

• CPR/First-Aid Certification

2.1.3 Every 3 Years

- DOT Function Specific (Loading and Unloading of Hazardous Materials): NRG Provided Online Training, includes separate exam.
- DOT Safety: NRG Provided Online Training, includes separate exam.
- DOT General Awareness (Transportation of Hazardous Materials): NRG Provided Online Training, includes separate Exam.
- DOT Security Awareness: NRG Provided Online Training
- Site Specific RMP training: Stand-alone done every three years but is covered by "HMBP Training" annually.

2.2 Training for EHS and Plant Clerk:

• Both are HAZWOPPER 40 Hour trained.

2.2.1 Annual:

• Lion Technology Inc. California Hazardous Waste Management Course: online or in person

2.2.2 Every 3 Years:

• Lion Technology Inc. Recurrent Hazmat Ground Shipper Certification (DOT)

California Environmental R	eporting System (CERS)	Aboveground Petroleum Storage Act - Facility Information Report
Facility/Site		
Carlsbad Energy Center Project		CERS ID 10765651
4950 Avenida Encinas		10/05051
Carlsbad, CA 92008		CAR000256545
Submittal Status		
Submittal was Accepted; Processed on 2	of Carlsbad Energy Center Project (Carlsbad, CA /21/2023 by <i>Manon Maschue</i> for San Diego Cou	nty Department of Environmental Health and Quality
APSA Facility Information		
Conditionally Exempt APSA Tank Facility N		
Date Of SPCC Plan Certification or Date of 5-Y 1/18/2023	ear Review	
Total Aboveground Storage Capacity of Petroleum	Number of Tanks in Underground Area(s)	
41435	0	

	UNIFIED PROC ABOVEGROUNI TANK F		LEUM ST	ORA		
		IDENTIFI				
	c as BUSINESS NAME or DBA-Doing Business ergy Center LLC	As)	3		ту рноме • 710-395(102)
FACILITY ADDRESS						103
4950 Avenid	la Encinas	104	1	ZIP COI	DF	105
Carlsbad		101	CA	9200		
CONTACT NAME			117a		CT PHONE	118a
Ryan J. Ste	ewart			760	-710-394	43
	II. TOTAL FAC	CILITY ST	FORAGE	CAPA	ACITY	017
containers, includir	veground petroleum storage capacity ng tanks in an underground area, with (see reverse for instructions):			or	41,435	937 gallons
	III. TANK A	ND CONT	FAINER I	DETA	ILS	
Details of each abo if needed)	veground petroleum storage tank and	l container grea	ter than 10,000) gallons	in shell capaci	ty (attach additional forms
938 Tank or Container ID Number	939 Contents (Gas, Diesel, etc.)	Shell Cap (in gallo		940 Location of Tank or Container		
5.						
		IV. SIGNA	TURE			
	DN: I certify under penalty of law that th					
SIGNATURE OF TAI	NK FACILITY OWNER OR OPERATOR	and and a particular and a	TANK FACILITY			DATE (MM/DD/YYYY)
0		PAUL	_ MF	TTE	SICH	ØC 109 17023

Aboveground Petroleum Storage Act: Tank Facility Statement Instructions

Each owner or operator of a tank facility that is subject to the Aboveground Petroleum Storage Act (APSA) is required to submit a Tank Facility Statement annually into the California Environmental Reporting System (CERS). A Hazardous Materials Business Plan (HMBP) submittal into CERS satisfies the requirement to file the Tank Facility Statement.

A tank facility is subject to APSA if any of the following apply:

- (a) The tank facility is subject to the oil pollution prevention regulations specified in Part 112 (commencing with §112.1) of Subchapter D of
- Chapter I of Title 40 of the Code of Federal Regulations; **OR**
- (b) The tank facility has a storage capacity of 1,320 gallons or more of petroleum; <u>**OR**</u>
- (c) The tank facility has a storage capacity of less than 1,320 gallons of petroleum AND has one or more tanks in an underground area (TIUGAs) meeting the conditions specified in paragraph (1) of subdivision (o) of HSC §25270.2. If this subdivision is applicable, only tanks meeting the conditions specified in paragraph (1) of subdivision (o) of HSC §25270.2 shall be included as storage tanks and subject to APSA.

I. FACILITY INFORMATION

3. FACILITY NAME - Enter the full legal name of the tank facility. (Same as BUSINESS NAME or DBA-Doing Business As.)

102. FACILITY PHONE - Enter the phone number, area code first, and any extension.

103. FACILITY ADDRESS – Enter the street address where the tank facility is located. No post office box numbers are allowed. This information must provide a means to locate the facility geographically.

104. CITY – Enter the city or unincorporated area in which the tank facility is located.

105. ZIP CODE – Enter the zip code of the tank facility. The extra 4 digit zip code may also be added.

117a. CONTACT NAME - Enter the name of the person, who receives aboveground storage tank correspondences.

118a. CONTACT PHONE – Enter the phone number, area code first, and any extension.

II. TOTAL FACILITY STORAGE CAPACITY

937. TOTAL FACILITY STORAGE CAPACITY – Enter the facility's total aboveground petroleum storage tank capacity (in gallons). Using the table below, enter the <u>shell capacity</u> of each aboveground petroleum storage tank and container, including each TIUGA, greater than or equal to 55 gallons. Do not enter the actual volume stored in the tank. To calculate the capacity of 55 gallon drums on site, use the **maximum** number of drums that would typically be stored at your facility.

Total Facility Storage Capacity (in galons) = $A + b + C$							
Total Facility Storage Capacity in gallons = Sum of Shell Capacity of All Aboveground Petroleum Storage Tanks and Containers (≥55 gallons)							
(e.g., 6 X 55	gal. = 330 gal.; 1 X 2,000 g	al. = 2,000 gal.; 1 X 10,00	0 gal. = 10,000 gal.; Total	= 330 + 2,000 + 10,000 = 1	12,330 gallons)		
	A]	B	(<u> </u>		
x 55 gal.	=	x 1,000 gal.	=	x gal.	=		
x 100 gal.	=	x 2,000 gal.	=	x gal.	=		
x 250 gal.	=	x gal.	=	x gal.	=		
x 500 gal.	=	x gal.	=	x gal.	=		
Subtotal A =	gallons	Subtotal B =	gallons	Subtotal C =	gallons		

Total Facility Storage Capacity (in gallons) = A + B + C

III. TANK AND CONTAINER DETAILS

Provide details of each aboveground petroleum storage tank and container greater than 10,000 gallons in shell capacity (attach additional forms if needed) at your facility. If your facility does not have an aboveground storage tank or container with shell capacity greater than 10,000 gallons, you can skip data fields 938 – 941.

938. TANK OR CONTAINER ID NUMBER – Enter a unique identification number for each aboveground petroleum storage tank and container at your facility. You may create your own numbering system.

939. CONTENTS – Enter the contents (i.e. DIESEL, GASOLINE, OIL, etc.) of each aboveground petroleum storage tank and container at your facility.

940. SHELL CAPACITY - Enter the shell capacity (in gallons) of each aboveground petroleum storage tank and container at your facility.

941. LOCATION OF TANK OR CONTAINER – Enter the general location of each aboveground petroleum storage tank or container at your facility (e.g., at north end of facility; inside maintenance shop).

IV. SIGNATURE

SIGNATURE OF TANK FACILITY OWNER OR OPERATOR – The form must be signed, in the space provided, by the owner or operator. PRINT NAME OF TANK FACILITY OWNER OR OPERATOR – Print or type the full name of the person signing the form. DATE – Enter the date (MM/DD/YYY) the form was signed.

DEFINITIONS

TANK FACILITY – Any one or more aboveground storage tanks, including any piping that is integral to the tanks that <u>contain petroleum</u> and that are used by an owner or operator at a single location or site.

ABOVEGROUND STORAGE TANK (AST) – A tank (or container) with the capacity to store 55 gallons or more of petroleum that is substantially or totally above the surface of the ground, including a TIUGA. Some AST exceptions exist; they are specified in HSC

§25270.2(a). An AST includes drums, totes, oil-filled operational or manufacturing equipment, etc.

PETROLEUM - Crude oil, or a fraction thereof, that is liquid at 60°F temperature and 14.7 pounds per square inch absolute pressure. Petroleum includes gasoline, diesel, E85, motor oil, waste oil, etc., but does NOT include antifreeze, propane, or natural gas.

STORAGE – Containment, handling, or treatment of petroleum, for any period of time, including standby storage, seasonal storage, and temporary storage.

STORAGE CAPACITY (of a facility) – The aggregate shell capacity of all aboveground storage tanks (including containers 55 gallons and greater) at a tank facility. For example, if a facility has two 500-gallon capacity diesel ASTs and a 600-gallon capacity waste oil AST, but only keeps each AST half full, then the storage capacity for this facility is 1,600 gallons (calculated by adding the shell capacity of each tank/container).

Attachment C HAZ-8: Contractor Verification Statement

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970

March 1, 2024

Subject: <u>CARLSBAD ENERGY CENTER COM-8 REPORT – HAZ-8: Contractor Verification Statement</u>

The Carlsbad Energy Center Project takes the following actions to maintain compliance with the requirements in HAZ-8:

- All NRG employees at CECP undergo a background check in the onboarding process.
- Contractors are vetted by the NRG and Clearway procurement through the Coupa Supplier Information Management (SIM) portal for vendor registration and screening process. Vendors must complete and maintain current Coupa SIM status before the contractor is allowed to conduct work at CECP.

Attachment DSOIL&WATER-4: EPS Water Reports
EPS NPDES Permit No. CA0001350 was terminated in
December 2021 - Last day of Discharge was June 30, 2021
Report no longer available or required

Attachment E SOIL&WATER-5: Potable Water Statement

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970

March 1, 2024

Subject: <u>CARLSBAD ENERGY CENTER COM-8 REPORT – SOIL&WATER-5: Potable Water</u> <u>Statement</u>

To date, the City of Carlsbad has not required or requested any water quality monitoring reports related to the potable water system.

Attachment F SOIL&WATER-6: Water Use Report

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970

March 1, 2024

Subject: CARLSBAD ENERGY CENTER COM-8 REPORT – SOIL&WATER-6: Potable Water Use

Attached is a report of Carlsbad Energy Center's Title 22 and potable water use for 2023. Due to the level of details given on the monthly potable water bills, only daily averages are able to be given in this report.

2023 Water Usage By Type

Emergency Water Use:					
Month	Gallons	Acre-Feet			
Jan-22	0	0			
Feb-22	0	0			
Mar-22	0	0			
Apr-22	0	0			
May-22	0	0			
Jun-22	0	0			
Jul-22	0	0			
Aug-22	0	0			
Sep-22	0	0			
Oct-22	0	0			
Nov-22	0	0			
Dec-22	0	0			

Title 22 Water Use (includes Encina Demolition uses)						
Month	Total (gal)	Daily Average (gal)	Daily Max (gal)	Total (Acre-Feet)		
Jan-22	113,696.00	3,667.61	86,437.00	0.35		
Feb-22	177,276.00	6,331.29	96,572.00	0.54		
Mar-22	1,268,608.00	40,922.84	358,344.00	3.89		
Apr-22	658,240.00	21,941.33	152,506.00	2.02		
May-22	730,796.00	23,574.06	223,537.00	2.24		
Jun-22	789,888.00	26,329.60	323,107.00	2.42		
Jul-22	2,205,104.00	71,132.39	263,151.00	6.77		
Aug-22	1,610,444.00	51,949.81	165,607.00	4.94		
Sep-22	820,556.00	27,351.87	158,087.00	2.52		
Oct-22	1,118,260.00	36,072.90	193,116.00	3.43		
Nov-22	644,028.00	21,467.60	176,050.00	1.98		
Dec-22	820,556.00	26,469.55	180,248.00	2.52		
Total	10,957,452.00			33.63		

Potable Wate	r Use:(includes Er	ncina Demolition uses)]
			Total (gal) Encina	
Month	Total (gal)	Daily Average (gal)	Demolition	Total (Acre-Feet)
Jan-22	18,700.00	603.23		0.06
Feb-22	16,456.00	587.71		0.05
Mar-22	17,952.00	579.10		0.06
Apr-22	16,456.00	548.53		0.05
May-22	20,944.00	675.61		0.06
Jun-22	17,204.00	573.47		0.05
Jul-22	13,464.00	434.32		0.04
Aug-22	41,888.00	1,351.23		0.13
Sep-22	17,204.00	573.47		0.05
Oct-22	18,700.00	603.23		0.06
Nov-22	21,692.00	723.07		0.07
Dec-22	14,960.00	482.58		0.05

Fire Water Lines

		Monthly Average		
Meter	Total (gal)	(gal)	Daily Average (gal)	Total (Acre-Feet)
2"	5,984.00	498.67	16.39	0.02
8"	3,740.00	311.67	10.25	0.01

Total 2022 Potab	le	
	CECP	Encina Demoiltion
Gallons:	245,344.00	-
Acre-Feet:	0.75	-

Attachment G SOIL&WATER-7: Wastewater Quality Monitoring Reports

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970

Mr. William Svec Compliance Project Manager Encina Wastewater Authority 6200 Avenida Encinas Carlsbad, California 92011

RE: CARLSBAD ENERGY CENTER PROJECT, FIRST QUARTER OF 2023 WASTE WATER SAMPLES

Dear Mr. Svec:

Carlsbad Energy Center LLC ("Project Owner") submits the results for the required samples for the First Quarter of 2023 (1Q2023). This report is submitted in compliance with the table in condition 2 of permit number 2405. The samples were taken on January 11, 2023. The following table summarizes the results:

			Res	ults	
Constituent	Limit	Units	Sample Point 1	Sample Point 2	Notes
Arsenic, Total	1.5	mg/L	ND	ND	
Cadmium, Total	0.77	mg/L	ND	ND	
Chromium, Total	3.5	mg/L	ND	ND	
Copper, Total	11	mg/L	0.0055*	0.026*	* Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
Lead, Total	5.1	mg/L	ND	ND	
Mercury, Total	0.27	mg/L	ND	ND	
Molybdenum, Total	4.1	mg/L	0.012*	0.083	* Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
Nickel, Total	15	mg/L	0.0042*	0.0035*	* Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
Selenium, Total	2.5	mg/L	ND	ND	
Silver, Total	4.2	mg/L	ND	ND	
Zinc, Total	29	mg/L	0.73	0.46	
Oil and Grease (HEM)	400	mg/L	2.3	0.82*	* Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
BOD	500	lb/day	0.10	0.019	Flow - SP1: 198.6 gal, SP2: 638.4 gal
BOD	N/A	mg/L	6.3	3.5	Sample Results for Calc
TDS	N/A	mg/L	170	570	
TSS	500	lb/day	0.015	0.023	Flow - SP1: 198.6 gal, SP2: 638.4 gal
TSS	N/A	mg/L	9.3	4.3	Sample Results for Calc
рН	5.5-12		6.90	7.37	
рН	5.5-12		6.85	7.32	
рН	5.5-12		6.85	7.29	
рН	5.5-12		6.89	7.26	

If you have any questions or comments, please do not hesitate to contact Paul Mattesich at (760) 710-3945.

Sincerely,

Paul Mattesich Plant Manager Carlsbad Energy Center LLC

Attached:Eurofins Calscience Analytical Report Waste Water Samples – February 1, 2023EWA Report Certification dated February 7, 2023

Cc: File



ENCINA WASTEWATER AUTHORITY

6200 AVENIDA ENCINAS, CARLSBAD, CA 92011-0195 TEL:(760)438-3941 FAX:(760)476-9852

REPORT CERTIFICATION

I. INDUSTRIAL USER INFORMATION:

Carlsbad Energy Center LLC

Industrial User Name 4950 Avenida Encinas	Carlsbad	92008	760-710-3943
Facility Address Carlsbad Energy Center LLC	City	Zip Code	(Area Code) Phone
Owner Paul Mattesich		Plant Manager	
IU Contact City of Carlsbad	2405	Title	
Member Agency	Permit #		

II. CERTIFICATION STATEMENT:

All applications, reports or information submitted to the Encina Wastewater Authority must include the following certification statement and be signed as required by a responsible corporate officer, President, Vice President, Manager, CEO or an authorized representative.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

PAUL MATTESICH

CARLSBAL CITY OR COUNTY

PRESIDENT/VP/GENERAL MGR/CEO (Print and sign name)

DATE

SERVING THE CITY OF VISTA, CITY OF CARLSBAD, BUENA SANITATION DISTRICT, VALLECITOS WATER DISTRICT, LEUCADIA WASTEWATER DISTRICT AND CITY OF ENCINITAS



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Anthony Kalis Carlsbad Energy Center 4950 Avenida Encinas Carlsbad, California 92008 Generated 2/1/2023 2:21:27 PM

JOB DESCRIPTION

EWA Quarterly Sampling

JOB NUMBER

570-123834-1

Eurofins Calscience 2841 Dow Avenue, Suite 100 Tustin CA 92780





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Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager. The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

2/1/2023 2:21:27 PM

Generated

Authorized for release by Rossina Tomova, Project Manager I <u>Rossina. Tomova@et.eurofinsus.com</u> (657)210-6367

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Qualifiers

ND

NEG

POS

PQL

QC

RER RL

RPD

TEF

TEQ TNTC

PRES

Qualifiers		3
Metals		
Qualifier	Qualifier Description	4
F1	MS and/or MSD recovery exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	5
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
General Che	,mistry	
Qualifier	Qualifier Description	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
Glossary		8
Abbreviation	These commonly used abbreviations may or may not be present in this report.	0
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	0
%R	Percent Recovery	3
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	13
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	

Not Detected at the reporting limit (or MDL or EDL if shown)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Negative / Absent

Positive / Present

Presumptive

Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-123834-1

Comments

Due to login error matrix spike/matrix spike duplicate (MS/MSD) was not performed on sample Sample point #1 Composite (Grabs1,2,3,4) (570-123834-6); Duplicate for BOD was not performed on sample Sample point #1 Composite (570-123834-1). No additional comments.

Receipt

The samples were received on 1/12/2023 9:44 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.4° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method 200.7 Rev 4.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision of Silver for preparation batch 570-296317 and analytical batch 570-296611 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 1664A: Matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-296450. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 570-123834-1

Detection Summary

RL

0.050

0.050

0.050

0.25

10

3.3

2.0

MDL Unit

0.0016 mg/L

0.0059 mg/L

0.0015 mg/L

0.0046 mg/L

8.7 mg/L

2.8 mg/L

1.0 mg/L

Analyte

Copper

Nickel

Zinc

A ... **A** ..

Molybdenum

Total Dissolved Solids

Total Suspended Solids

Biochemical Oxygen Demand

Client Sample ID: Sample Point # 1 Composite

Result Qualifier

0.0055 J

0.012 J

0.0042 J

0.73

170

93

6.3

Prep Type

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Total/NA

Total/NA

Total/NA

Lab Sample ID: 570-123834-1

200.7 Rev 4.4

200.7 Rev 4.4

200.7 Rev 4.4

200.7 Rev 4.4

SM 2540C

SM 2540D

SM 5210B

Lab Sample ID: 570-123834-3

Lab Sample ID: 570-123834-4

Lab Sample ID: 570-123834-5

Lab Sample ID: 570-123834-6

Lab Sample ID: 570-123834-7

Dil Fac D Method

1

1

1

1

1

1

1

2 3 4 5 6 7 8 9 10 11		
4 5 6 7 8 9		
5 6 7 8 9		
9		
9	5	
9		
	8	
	9	

Lab Sample ID: 570-123834-2 -----

Analyte	Result	Qualifier	RL	NONE	Unit	Dil Fac	D	Method	Ргер Туре
Field pH	6.90				SU	1	_	Field Sampling	Total/NA
Field Temperature	19.10				Celsius	1		Field Sampling	Total/NA
Composited	yes				NONE	1		Composite	Total/NA
Compositod	yee				HOHE	•		Composito	

Client Sample ID: Sample Point # 1 Second Grab

Client Sample ID: Sample Point # 1 First Grab

Analyte	Result	Qualifier	RL	NONE	Unit	Dil Fac	D	Method	Prep Type	
Field pH	6.85				SU	1	_	Field Sampling	Total/NA	
Field Temperature	18.90				Celsius	1		Field Sampling	Total/NA	
Composited	yes				NONE	1		Composite	Total/NA	

Client Sample ID: Sample Point # 1 Third Grab

Analyte	Result	Qualifier	RL	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	6.85				SU	1	_	Field Sampling	Total/NA
Field Temperature	20.20				Celsius	1		Field Sampling	Total/NA
Composited	yes				NONE	1		Composite	Total/NA

Client Sample ID: Sample Point #1 Fourth Grab

Analyte	Result Qualifier	RL	NONE U	Unit	Dil Fac	D	Method	Prep Type
Field pH	6.89			SU	1	_	Field Sampling	Total/NA
Field Temperature	19.60		(Celsius	1		Field Sampling	Total/NA
Composited	yes		1	NONE	1		Composite	Total/NA

Client Sample ID: Sample Point # 1 Composite (Grab1,2,3,4)

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
HEM (Oil & Grease)	2.3	1.0	0.52 mg/L	11664A	Total/NA

Client Sample ID: Sample Point # 2 Composite

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Ргер Туре
Copper	0.026	J	0.050	0.0016	mg/L	1	200.7 Rev 4.4	Total
								Recoverable
Molybdenum	0.083		0.050	0.0059	mg/L	1	200.7 Rev 4.4	Total
								Recoverable
Nickel	0.0035	J	0.050	0.0015	mg/L	1	200.7 Rev 4.4	Total
								Recoverable
Zinc	0.46		0.25	0.0046	mg/L	1	200.7 Rev 4.4	Total
								Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Detection Summary

lient Sample ID: Sampl	e Point # 2	Composite	e (Contin	ued)		Lab Sa	ample ID: 570)-123834-7
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Total Dissolved Solids	570		10	8.7	mg/L	1	SM 2540C	Total/NA
Total Suspended Solids	4.3		1.3	1.0	mg/L	1	SM 2540D	Total/NA
Biochemical Oxygen Demand	3.5		2.0	1.0	mg/L	1	SM 5210B	Total/NA
Client Sample ID: Sampl	e Point # 2	First Grab				Lab Sa	ample ID: 570	-123834-8
Analyte	Result	Qualifier	RL	NONE	Unit	Dil Fac	D Method	Prep Type
Field pH	7.37				SU	1	Field Sampling	Total/NA
Field Temperature	18.10				Celsius	1	Field Sampling	Total/NA
Composited	yes				NONE	1	Composite	Total/NA
Client Sample ID: Sampl	e Point # 2	Second G	rab			Lab Sa	ample ID: 570	-123834-9
- Analyte	Result	Qualifier	RL	NONE	Unit	Dil Fac	D Method	Prep Type
Field pH	7.32				SU	1	Field Sampling	Total/NA
Field Temperature	19.50				Celsius	1	Field Sampling	Total/NA
Composited	yes				NONE	1	Composite	Total/NA
Client Sample ID: Sampl	e Point # 2	Third Grat)			Lab Sa	mple ID: 570-	123834-10
Analyte	Result	Qualifier	RL	NONE	Unit	Dil Fac	D Method	Prep Type
Field pH	7.29				SU	1	Field Sampling	Total/NA
Field Temperature	20.10				Celsius	1	Field Sampling	Total/NA
Composited	yes				NONE	1	Composite	Total/NA
Client Sample ID: Sampl	e Point # 2	Fourth Gra	ab			Lab Sa	mple ID: 570-	123834-11
Analyte	Result	Qualifier	RL	NONE	Unit	Dil Fac	D Method	Prep Type
Field pH	7.26				SU	1	Field Sampling	Total/NA
Field Temperature	19.30				Celsius	1	Field Sampling	Total/NA
Composited	yes				NONE	1	Composite	Total/NA
Client Sample ID: Sampl	e Point # 2	Composte	(Grab 1,	2,3,4)		Lab Sa	mple ID: 570-	123834-12
_ Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
HEM (Oil & Grease)	0.82	<u> </u>	1.0	0.52		1		Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Sample Point # 1 Composite Date Collected: 01/11/23 17:09 Date Received: 01/12/23 09:44

5 6

Lab Sample ID: 570-123834-1 Matrix: Water

Method: EPA 200.7 Rev 4.4 - Met Analyte		Qualifier	RL	МП	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	Quaimer	0.10	0.0097			01/17/23 06:29		1
Cadmium	ND		0.010	0.00045	-		01/17/23 06:29		1
Chromium	ND		0.010	0.0030	0			01/17/23 21:01	1
Copper	0.0055		0.050	0.0016			01/17/23 06:29	01/17/23 21:01	
Lead	ND	•	0.050	0.0060	0			01/17/23 21:01	1
Molybdenum	0.012	J	0.050	0.0059	U U		01/17/23 06:29	01/17/23 21:01	1
Nickel	0.0042	J	0.050	0.0015	mg/L		01/17/23 06:29	01/17/23 21:01	1
Selenium	ND		0.10	0.012	mg/L		01/17/23 06:29	01/17/23 21:01	1
Silver	ND	F2 F1	0.010	0.0034	mg/L		01/17/23 06:29	01/17/23 21:01	1
Zinc	0.73		0.25	0.0046	mg/L		01/17/23 06:29	01/17/23 21:01	1
Method: EPA 245.1 - Mercury (C									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/17/23 21:43	01/18/23 15:37	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	170		10	8.7	mg/L			01/17/23 13:25	1
Total Suspended Solids (SM 2540D)	9.3		3.3	2.8	mg/L			01/16/23 19:39	1
Biochemical Oxygen Demand (SM 5210B)	6.3		2.0	1.0	mg/L			01/13/23 13:49	1

Client Sample ID: Sample Point # 1 First Grab Lab Sample ID: 570-123834-2 Date Collected: 01/11/23 06:42 Matrix: Water Date Received: 01/12/23 09:44 Method: EPA Field Sampling - Field Sampling Analyte Result Qualifier RL NONE Unit D Prepared Analyzed Dil Fac Field pH 6.90 รบ 01/11/23 06:42 1 **Field Temperature** Celsius 01/11/23 06:42 19.10 1 Method: Composite - Sample Compositing NONE Unit Analyte **Result Qualifier** NONE D Prepared Analyzed Dil Fac NONE 01/13/23 16:40 Composited 1 yes

13

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Client Sample ID: Sample Point # 1 Second Grab Lab Sample ID: 570-123834-3 Date Collected: 01/11/23 09:34 Matrix: Water Date Received: 01/12/23 09:44 Method: EPA Field Sampling - Field Sampling Analyte Result Qualifier RL NONE Unit D Prepared Analyzed Dil Fac Field pH 6.85 รบ 01/11/23 09:34 1 **Field Temperature** Celsius 01/11/23 09:34 18.90 1 Method: Composite - Sample Compositing NONE Unit Analyte **Result Qualifier** NONE D Prepared Analyzed Dil Fac NONE 01/13/23 16:40 Composited 1 yes

13

Eurofins Calscience

Client Sample ID: Sample Point # 1 Third Grab Lab Sample ID: 570-123834-4 Date Collected: 01/11/23 13:37 **Matrix: Water** Date Received: 01/12/23 09:44 Method: EPA Field Sampling - Field Sampling Analyte Result Qualifier RL NONE Unit D Prepared Analyzed Dil Fac 6.85 Field pH รบ 01/11/23 13:37 1 **Field Temperature** Celsius 01/11/23 13:37 20.20 1 Method: Composite - Sample Compositing NONE Unit Analyte **Result Qualifier** NONE D Prepared Analyzed Dil Fac NONE 01/13/23 16:40 Composited 1 yes

13

Client Sample ID: Sample Point #1 Fourth Grab Lab Sample ID: 570-123834-5 Date Collected: 01/11/23 16:21 Matrix: Water Date Received: 01/12/23 09:44 Method: EPA Field Sampling - Field Sampling Analyte Result Qualifier RL NONE Unit D Prepared Analyzed Dil Fac Field pH รบ 01/11/23 16:21 6.89 1 **Field Temperature** Celsius 01/11/23 16:21 19.60 1 Method: Composite - Sample Compositing NONE Unit Analyte **Result Qualifier** NONE D Prepared Analyzed Dil Fac NONE 01/13/23 16:40 Composited 1 yes

13

Client Sample Results

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

Job ID: 570-123834-1

Client Sample ID: Sample Date Collected: 01/11/23 16:21 Date Received: 01/12/23 09:44	La	ib Sample	ID: 570-123 Matrix:						
General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	2.3		1.0	0.52	mg/L		01/17/23 13:15	01/17/23 16:49	1

Biochemical Oxygen Demand (SM

5210B)

Client Sample ID: Sample Point # 2 Composite Date Collected: 01/11/23 17:18 Date Received: 01/12/23 09:44

3.5

5

6

Lab Sample ID: 570-123834-7 Matrix: Water

01/13/23 14:02

1

 Method: EPA 200.7 Rev 4.4 - M	otale (ICP)	- Total Roc	overable						
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.10	0.0097	mg/L		01/17/23 06:29	01/17/23 21:09	1
Cadmium	ND		0.010	0.00045	mg/L		01/17/23 06:29	01/17/23 21:09	1
Chromium	ND		0.050	0.0030	mg/L		01/17/23 06:29	01/17/23 21:09	1
Copper	0.026	J	0.050	0.0016	mg/L		01/17/23 06:29	01/17/23 21:09	1
Lead	ND		0.050	0.0060	mg/L		01/17/23 06:29	01/17/23 21:09	1
Molybdenum	0.083		0.050	0.0059	mg/L		01/17/23 06:29	01/17/23 21:09	1
Nickel	0.0035	J	0.050	0.0015	mg/L		01/17/23 06:29	01/17/23 21:09	1
Selenium	ND		0.10	0.012	mg/L		01/17/23 06:29	01/17/23 21:09	1
Silver	ND		0.010	0.0034	mg/L		01/17/23 06:29	01/17/23 21:09	1
Zinc	0.46		0.25	0.0046	mg/L		01/17/23 06:29	01/17/23 21:09	1
Method: EPA 245.1 - Mercury (
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/17/23 21:43	01/18/23 15:42	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	570		10	8.7	mg/L			01/17/23 14:54	1
Total Suspended Solids (SM 2540D)	4.3		1.3	1.0	mg/L			01/16/23 19:39	1

2.0

1.0 mg/L

Client Sample ID: Sample Point # 2 First Grab Lab Sample ID: 570-123834-8 Date Collected: 01/11/23 06:49 Matrix: Water Date Received: 01/12/23 09:44 Method: EPA Field Sampling - Field Sampling Analyte Result Qualifier RL NONE Unit D Prepared Analyzed Dil Fac Field pH รบ 01/11/23 06:49 7.37 1 **Field Temperature** Celsius 01/11/23 06:49 18.10 1 Method: Composite - Sample Compositing NONE Unit Analyte **Result Qualifier** NONE D Prepared Analyzed Dil Fac NONE 01/13/23 16:40 Composited 1 yes

13

6

13

Client Sample ID: Sample Point # 2 Second Grab Lab Sample ID: 570-123834-9 Date Collected: 01/11/23 09:40 Matrix: Water Date Received: 01/12/23 09:44 Method: EPA Field Sampling - Field Sampling Analyte Result Qualifier RL NONE Unit D Prepared Analyzed Dil Fac Field pH รบ 01/11/23 09:40 7.32 1 Celsius 01/11/23 09:40 **Field Temperature** 19.50 1 Method: Composite - Sample Compositing NONE Unit Analyte **Result Qualifier** NONE D Prepared Analyzed Dil Fac NONE 01/13/23 16:40 Composited 1 yes

Client Sample ID: Sample Point # 2 Third Grab Lab Sample ID: 570-123834-10 Date Collected: 01/11/23 13:43 **Matrix: Water** Date Received: 01/12/23 09:44 Method: EPA Field Sampling - Field Sampling Analyte Result Qualifier RL NONE Unit D Prepared Analyzed Dil Fac Field pH รบ 01/11/23 13:43 7.29 1 **Field Temperature** Celsius 01/11/23 13:43 20.10 1 Method: Composite - Sample Compositing NONE Unit Analyte **Result Qualifier** NONE D Prepared Analyzed Dil Fac NONE 01/13/23 16:40 Composited 1 yes

13

6

13

Client Sample ID: Sample Point # 2 Fourth Grab Lab Sample ID: 570-123834-11 Date Collected: 01/11/23 16:29 Matrix: Water Date Received: 01/12/23 09:44 Method: EPA Field Sampling - Field Sampling Analyte Result Qualifier RL NONE Unit D Prepared Analyzed Dil Fac Field pH 7.26 รบ 01/11/23 16:29 1 Celsius 01/11/23 16:29 **Field Temperature** 19.30 1 Method: Composite - Sample Compositing NONE Unit Analyte **Result Qualifier** NONE D Prepared Analyzed Dil Fac NONE 01/13/23 16:41 Composited 1 yes

Client Sample Results

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

Job ID: 570-123834-1

Client Sample ID: Sample Date Collected: 01/11/23 16:29 Date Received: 01/12/23 09:44	Lat	o Sample II	D: 570-1238 Matrix:	34-12 Water					
General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	0.82	J	1.0	0.52	mg/L		01/17/23 13:15	01/17/23 16:49	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 570-296317/1-A **Matrix: Water** Analysis Batch: 296611

	IB MB	В						
Analyte Res	ult Qu	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	0.10	0.0097	mg/L		01/17/23 06:29	01/17/23 20:49	1
Cadmium	١D	0.010	0.00045	mg/L		01/17/23 06:29	01/17/23 20:49	1
Chromium	١D	0.050	0.0030	mg/L		01/17/23 06:29	01/17/23 20:49	1
Copper	١D	0.050	0.0016	mg/L		01/17/23 06:29	01/17/23 20:49	1
Lead	١D	0.050	0.0060	mg/L		01/17/23 06:29	01/17/23 20:49	1
Molybdenum	١D	0.050	0.0059	mg/L		01/17/23 06:29	01/17/23 20:49	1
Nickel	١D	0.050	0.0015	mg/L		01/17/23 06:29	01/17/23 20:49	1
Selenium	١D	0.10	0.012	mg/L		01/17/23 06:29	01/17/23 20:49	1
Silver	١D	0.010	0.0034	mg/L		01/17/23 06:29	01/17/23 20:49	1
Zinc	١D	0.25	0.0046	mg/L		01/17/23 06:29	01/17/23 20:49	1

Lab Sample ID: LCS 570-296317/2-A Matrix: Water Analysis Batch: 296611

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 296317

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Allalysis Daluli. 230011							Fiep Datch. 290317
-	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	0.500	0.500		mg/L		100	85 - 115
Cadmium	0.500	0.497		mg/L		99	85 - 115
Chromium	0.500	0.503		mg/L		101	85 - 115
Copper	0.500	0.490		mg/L		98	85 - 115
Lead	0.500	0.503		mg/L		101	85 - 115
Molybdenum	0.500	0.486		mg/L		97	85 - 115
Nickel	0.500	0.499		mg/L		100	85 - 115
Selenium	0.500	0.500		mg/L		100	85 - 115
Silver	0.250	0.245		mg/L		98	85 - 115
Zinc	0.500	0.499		mg/L		100	85 - 115

Lab Sample ID: LCSD 570-296317/3-A Matrix: Water Analysis Batch: 296611

Analysis Batch: 296611							Prep Ba	atch: 29	96317
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	0.500	0.506		mg/L		101	85 - 115	1	20
Cadmium	0.500	0.501		mg/L		100	85 - 115	1	20
Chromium	0.500	0.508		mg/L		102	85 - 115	1	20
Copper	0.500	0.491		mg/L		98	85 - 115	0	20
Lead	0.500	0.507		mg/L		101	85 - 115	1	20
Molybdenum	0.500	0.496		mg/L		99	85 - 115	2	20
Nickel	0.500	0.502		mg/L		100	85 - 115	1	20
Selenium	0.500	0.505		mg/L		101	85 - 115	1	20
Silver	0.250	0.247		mg/L		99	85 - 115	1	20
Zinc	0.500	0.501		mg/L		100	85 - 115	0	20

Lab Sample ID: 570-123834-1 MS

Client Sample ID: Sample Point # 1 Composite **Matrix: Water** Prep Type: Total Recoverable Analysis Batch: 296611 Prep Batch: 296317 MS MS %Rec Sample Sample Spike Analyte **Result Qualifier** Added Result Qualifier Unit Limits D %Rec ND 0.500 0.502 80 - 120 Arsenic ma/L 100

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 296317

Job ID: 570-123834-1

Spike

Added

0.500

0.500

0.500

0.500

0.500

0.500

0.500

0.250

0.500

MS MS

0.495

0.507

0.520

0.502

0.510

0.504

0.494

0.217

1.24

Result Qualifier

Unit

mg/L

mg/L

mg/L

mg/L

mg/L

mg/L

mg/L

mg/L

mg/L

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Sample Sample

ND

ND

ND

0.012 J

0.0042 J

ND

0.73

0.0055

Result Qualifier

J

ND F2 F1

Lab Sample ID: 570-123834-1 MS Matrix: Water

Analyte

Cadmium

Chromium

Molybdenum

Copper

Lead

Nickel

Silver

Zinc

Selenium

Prep Type: Total Recoverable

%Rec

Limits

80 - 120

80 - 120

80 - 120

80 - 120

80 - 120

80 - 120

80 - 120

80 - 120

80 - 120

Prep Batch: 296317

Client Sample ID: Sample Point # 1 Composite
Prep Type: Total Recoverable

Client Sample ID: Sample Point # 1 Composite

99

101

103

100

100

100

99

87

102

D %Rec

Matrix: Water Analysis Batch: 296611

Lab Sample ID: 570-123834-1 MSD

Analysis Batch: 296611									Prep Ba	itch: 29	96317
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	ND		0.500	0.510		mg/L		102	80 - 120	2	20
Cadmium	ND		0.500	0.501		mg/L		100	80 - 120	1	20
Chromium	ND		0.500	0.515		mg/L		103	80 - 120	2	20
Copper	0.0055	J	0.500	0.524		mg/L		104	80 - 120	1	20
Lead	ND		0.500	0.510		mg/L		102	80 - 120	2	20
Molybdenum	0.012	J	0.500	0.521		mg/L		102	80 - 120	2	20
Nickel	0.0042	J	0.500	0.507		mg/L		101	80 - 120	1	20
Selenium	ND		0.500	0.498		mg/L		100	80 - 120	1	20
Silver	ND	F2 F1	0.250	0.158	F2 F1	mg/L		63	80 - 120	32	20
Zinc	0.73		0.500	1.25		mg/L		105	80 - 120	1	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 570-296605/1-A Matrix: Water Analysis Batch: 296852	//B MB						C	Clie	nt Samı	ole ID: M Prep Ty Prep B	pe: To	tal/NA
Analyte Res	ult Quali [.]	fier	RL	I	MDL Uni	it	D	Pi	repared	Analy	zed	Dil Fac
Mercury	ND	0.0	0020	0.00	012 mg	/L	c	01/1	7/23 21:43	01/18/23	15:27	1
Lab Sample ID: LCS 570-296605/2-A Matrix: Water Analysis Batch: 296852						C	lient	Sar	nple ID:	Lab Cor Prep Ty Prep B	pe: To	tal/NA
		Spike		LCS	LCS					%Rec		
Analyte		Added		Result	Qualifie	r Unit		D	%Rec	Limits		
Mercury		0.00800	C	0.00748		mg/L			93	85 - 115		
Lab Sample ID: LCSD 570-296605/3-A Matrix: Water Analysis Batch: 296852						Client	Samp	ole	ID: Lab	Control Prep Ty Prep B	pe: To	tal/NA
		Spike		LCSD	LCSD					%Rec		RPD
Analyte		Added		Result	Qualifie	r Unit		D	%Rec	Limits	RPD	Limit
Mercury		0.00800	C	0.00781		mg/L		_	98	85 - 115	4	10

Job ID: 570-123834-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 570-123834-	1 MS						Clier	nt Samp	le ID:	Sample	Point #		
Matrix: Water											Prep Ty		
Analysis Batch: 296852											Prep B	atch: 2	96605
	Sample			Spike		-	MS				%Rec		
Analyte	Result	Quali		Added			Qualifier	Unit	D		Limits		
Mercury	ND			0.00800	(0.00783		mg/L		98	85 - 115		
Lab Sample ID: 570-123834-	1 MSD						Clier	nt Samp	le ID:	Sample	Point #	1 Com	posite
Matrix: Water											Prep Ty	pe: To	tal/NA
Analysis Batch: 296852											Prep B	atch: 2	96605
-	Sample	Sam	ple	Spike		MSD	MSD				%Rec		RPI
Analyte	Result	Quali	ifier	Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Mercury	ND			0.00800	(0.00782		mg/L		98	85 - 115	0	10
Method: 1664A - HEM an	d SGT-ł	HEM											
_ Lab Sample ID: MB 570-2964	450/1-A								Clie	ent Sam	ple ID: N	lethod	Blanl
Matrix: Water											Prep Ty		
Analysis Batch: 296527											Prep B		
		MB	МВ										
Analyte	Re	esult	Qualifier		RL	1	MDL Unit		D P	repared	Analy	zed	Dil Fa
HEM (Oil & Grease)		ND			1.0		0.51 mg/L		01/1	17/23 13:1	5 01/17/23		
Lab Sample ID: LCS 570-296	450/2-0							Clie	nt Sa		: Lab Co	ntrol S	ampl
Matrix: Water	HJU/2-A							Cile	in Sa				
											Prep Ty	-	
Analysis Batch: 296527				Cuilco		1.00	LCS				Prep B %Rec	atch: 2	9045
Aussia				Spike		_		11	-	0/ D			
Analyte				Added 40.0			Qualifier	Unit	D	%Rec 96	Limits 78 - 114		
HEM (Oil & Grease)				40.0		38.50		mg/L		90	70-114		
Lab Sample ID: LCSD 570-29	96450/3-A						C	Client Sa	ample	ID: Lab	Control	Sampl	e Dui
Matrix: Water		-									Prep Ty		
Analysis Batch: 296527											Prep B		
				Spike		LCSD	LCSD				%Rec	_	RP
Analyte				Added			Qualifier	Unit	D	%Rec	Limits	RPD	Lim
HEM (Oil & Grease)				40.0		37.30		mg/L		93	78 - 114	3	
_ Method: SM 2540C - Soli	ds, Tota	al Di	ssolve	d (TDS	5)								
Lab Sample ID: MB 570-2964	159/1		-					-	Cliv	ent Sam	ple ID: N	lethod	Blan
Matrix: Water										un Gam	Prep Ty		
Analysis Batch: 296459												20.10	
Analysis Daten. 200400		MB	MR										
Analyte	Re		Qualifier		RL	1	MDL Unit		D P	repared	Analy	70d	Dil Fa
Total Dissolved Solids		ND	Quanner		10		8.7 mg/L			repuied	01/17/23		Dirra
	450/0												
Lab Sample ID: LCS 570-296	459/2							Clie	nt Sa	mpie ID	: Lab Co		
Matrix: Water											Prep Ty	pe: To	
Analysis Batch: 296459				0							0/ D		
A stark da				Spike			LCS	11	-	0/ F	%Rec		
Analyte				Added			Qualifier	Unit	D	%Rec	Limits		
Total Dissolved Solids				1000		1020		mg/L		102	84 - 108		

QC Sample Results

Job ID: 570-123834-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 570-2	296459/3					C	Client S	ample	ID: Lat			
Matrix: Water Analysis Batch: 296459										Prep Ty		al/NA
Analysis Datch. 290439			Spike		LCSD	LCSD				%Rec		RPD
Analyte			Added		-	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Total Dissolved Solids			1000		1010		mg/L		101	84 - 108	1	10
									_			
Lab Sample ID: 570-123834	-1 DU					Clier	nt Samp	ole ID:	Sample	Point # 1		
Matrix: Water										Prep Ty	pe: Tot	al/NA
Analysis Batch: 296459	Sampla	Sample			ווס	DU						RPD
Analyte		Qualifier				Qualifier	Unit	D			RPD	Limit
Total Dissolved Solids	170				185	Quaimer	mg/L				10	10
Lab Sample ID: MB 570-296	498/1							Clie	ent Sam	ple ID: M	ethod	Blank
Matrix: Water										Prep Ty	pe: Tot	al/NA
Analysis Batch: 296498												
		MB MB										
Analyte	Re	sult Qualifier		RL		MDL Unit		D P	repared	Analyz		Dil Fac
Total Dissolved Solids		ND		10		8.7 mg/L				01/17/23	14:54	1
Lab Sample ID: LCS 570-29	6498/2						Clie	ont Sar	nnle ID	: Lab Cor	trol Sa	mnlo
Matrix: Water	0430/2									Prep Ty		
Analysis Batch: 296498												
			Spike		LCS	LCS				%Rec		
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits		
Total Dissolved Solids			1000		1080		mg/L		108	84 - 108		
Γ												_
Lab Sample ID: LCSD 570-2	296498/3					C	client S	ample	ID: Lat	Control		
Matrix: Water										Prep Ty	pe: Tot	al/NA
Analysis Batch: 296498			Ondina							0/ D = =		
Analyta			Spike Added		-	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD
Analyte Total Dissolved Solids			1000		1050	Quaimer	mg/L		105	84 - 108	3	Limit 10
			1000		1050		iiig/L		105	04 - 100	5	10
Lab Sample ID: 570-123690	-M-1 DU								Client	Sample I	D: Dup	licate
Matrix: Water										Prep Ty		
Analysis Batch: 296498												
	Sample	Sample			DU	DU						RPD
Analyte	Result	Qualifier				Qualifier	Unit	D			RPD	Limit
Total Dissolved Solids	430				437		mg/L				0.9	10
Method: SM 2540D - Sol	ids, Tota	I Suspend	ded (TS	S)								
Lab Sample ID: MB 570-296	267/1							Clie	ent Sam	ple ID: M	ethod	Blank
Matrix: Water										Prep Ty		
Analysis Batch: 296267												

	MB N	MB							
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	0.83	mg/L			01/16/23 19:38	1

QC Sample Results

Job ID: 570-123834-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 570-29	6267/2					Clien	nt Sai	mple ID): Lab Con	trol Sa	ample
Matrix: Water									Prep Typ	e: To	tal/NA
Analysis Batch: 296267											
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Total Suspended Solids			100	98.0		mg/L		98	77 - 116		
Lab Sample ID: LCSD 570-2	96267/3				c	lient Sar	mple	ID: Lat	o Control S	ampl	e Dup
Matrix: Water							÷		Prep Typ		
Analysis Batch: 296267											
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Total Suspended Solids			100	101		mg/L		101	77 - 116	3	10
Lab Sample ID: 570-123834	-1 DU				Clien	t Sample	e ID:	Sample	e Point # 1	Com	oosite
Matrix: Water									Prep Typ		
Analysis Batch: 296267											
······ , ······························	Sample	Sample		DU	DU						RPD
Analyte	•	Qualifier			Qualifier	Unit	D			RPD	Limit
Total Suspended Solids	9.3			9.00		mg/L				4	10
Lab Sample ID: USB 570-29 Matrix: Water Analysis Batch: 296844	6844/2						Clie	ent San	nple ID: Me Prep Typ		
-	I	USB USB									
Analyte	Re	esult Qualifier		RL	MDL Unit	D) P	repared	Analyz	ed	Dil Fac
Biochemical Oxygen Demand		ND		2.0	1.0 mg/L				01/13/23 1	3:25	1
Lab Sample ID: LCS 570-29 Matrix: Water	6844/4					Clien	nt Sai	mple ID	: Lab Con Prep Typ		
Analysis Batch: 296844			.								
• • •			Spike		LCS		_		%Rec		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Biochemical Oxygen Demand			199	218		mg/L		110	84.6 - 115. 4		
Lab Sample ID: 570-123834	-1 DU				Clien	t Sample	e ID:	Sample	e Point # 1	Com	nosite
Matrix: Water					0.00				Prep Typ		
Analysis Batch: 296844	Sample	Sample		ווס	DU						Rbu
		Sample Qualifier			DU Qualifier	Unit	D			RPD	RPD Limit

5

QC Association Summary

Job ID: 570-123834-1

8 9 10 11 12 13

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Prep	Batch:	296317

Metals

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-123834-1	Sample Point # 1 Composite	Total Recoverable	Water	200.7	
570-123834-7	Sample Point # 2 Composite	Total Recoverable	Water	200.7	
MB 570-296317/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 570-296317/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 570-296317/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
570-123834-1 MS	Sample Point # 1 Composite	Total Recoverable	Water	200.7	
570-123834-1 MSD	Sample Point # 1 Composite	Total Recoverable	Water	200.7	
rep Batch: 296605					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-123834-1	Sample Point # 1 Composite	Total/NA	Water	245.1	
570-123834-7	Sample Point # 2 Composite	Total/NA	Water	245.1	
MB 570-296605/1-A	Method Blank	Total/NA	Water	245.1	
LCS 570-296605/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 570-296605/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
570-123834-1 MS	Sample Point # 1 Composite	Total/NA	Water	245.1	
570-123834-1 MSD	Sample Point # 1 Composite	Total/NA	Water	245.1	
nalysis Batch: 2966	511				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-123834-1	Sample Point # 1 Composite	Total Recoverable	Water	200.7 Rev 4.4	296317
570-123834-7	Sample Point # 2 Composite	Total Recoverable	Water	200.7 Rev 4.4	296317
MB 570-296317/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	296317
LCS 570-296317/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	296317
LCSD 570-296317/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	296317
570-123834-1 MS	Sample Point # 1 Composite	Total Recoverable	Water	200.7 Rev 4.4	29631
570-123834-1 MSD	Sample Point # 1 Composite	Total Recoverable	Water	200.7 Rev 4.4	29631
nalysis Batch: 2968	52				
ah Camula ID		Prep Type	Matrix	Method	Prep Batcl
	Client Sample ID				
Lab Sample ID 570-123834-1	Sample Point # 1 Composite	Total/NA	Water	245.1	296605
•			Water Water	245.1 245.1 245.1	296605 296605

570-123834-1 MSD	Sample Point # 1 Composite
General Chemistry	

Lab Control Sample

Lab Control Sample Dup

Sample Point # 1 Composite

LCS 570-296605/2-A

570-123834-1 MS

LCSD 570-296605/3-A

Analysis Batch: 296267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-123834-1	Sample Point # 1 Composite	Total/NA	Water	SM 2540D	
570-123834-7	Sample Point # 2 Composite	Total/NA	Water	SM 2540D	
MB 570-296267/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 570-296267/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 570-296267/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	
570-123834-1 DU	Sample Point # 1 Composite	Total/NA	Water	SM 2540D	

Total/NA

Total/NA

Total/NA

Total/NA

Water

Water

Water

Water

245.1

245.1

245.1

245.1

Eurofins Calscience

296605

296605

296605

296605

QC Association Summary

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

General Chemistry

Prep Batch: 296450

Lab Sample ID 570-123834-6	Client Sample ID Sample Point # 1 Composite (Grab1,2,3,4)	Prep Type Total/NA	Matrix Water	Method	Prep Batch
570-123834-12	Sample Point # 2 Composte (Grab 1,2,3,4)	Total/NA	Water	1664A	
MB 570-296450/1-A	Method Blank	Total/NA	Water	1664A	
LCS 570-296450/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 570-296450/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
Analysis Batch: 2964	459				
Lab Sample ID 570-123834-1	Client Sample ID Sample Point # 1 Composite	Prep Type Total/NA	Matrix Water	Method SM 2540C	Prep Batch
MB 570-296459/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-296459/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 296498

Lab Control Sample Dup

Sample Point # 1 Composite

LCSD 570-296459/3

570-123834-1 DU

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-123834-7	Sample Point # 2 Composite	Total/NA	Water	SM 2540C	
MB 570-296498/1	Method Blank	Total/NA	Water	SM 2540C	1
LCS 570-296498/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-296498/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
570-123690-M-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Total/NA

Total/NA

Water

Water

Analysis Batch: 296527

Lab Sample ID 570-123834-6	Client Sample ID Sample Point # 1 Composite (Grab1,2,3,4)	Prep Type Total/NA	Matrix Water	Method 1664A	Prep Batch 296450
570-123834-12	Sample Point # 2 Composte (Grab 1,2,3,4)	Total/NA	Water	1664A	296450
MB 570-296450/1-A	Method Blank	Total/NA	Water	1664A	296450
LCS 570-296450/2-A	Lab Control Sample	Total/NA	Water	1664A	296450
LCSD 570-296450/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	296450

Analysis Batch: 296844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-123834-1	Sample Point # 1 Composite	Total/NA	Water	SM 5210B	
570-123834-7	Sample Point # 2 Composite	Total/NA	Water	SM 5210B	
USB 570-296844/2	Method Blank	Total/NA	Water	SM 5210B	
LCS 570-296844/4	Lab Control Sample	Total/NA	Water	SM 5210B	
570-123834-1 DU	Sample Point # 1 Composite	Total/NA	Water	SM 5210B	

Field Service / Mobile Lab

Analysis Batch: 296281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-123834-2	Sample Point # 1 First Grab	Total/NA	Water	Field Sampling	
570-123834-3	Sample Point # 1 Second Grab	Total/NA	Water	Field Sampling	
570-123834-4	Sample Point # 1 Third Grab	Total/NA	Water	Field Sampling	
570-123834-5	Sample Point # 1 Fourth Grab	Total/NA	Water	Field Sampling	
570-123834-8	Sample Point # 2 First Grab	Total/NA	Water	Field Sampling	
570-123834-9	Sample Point # 2 Second Grab	Total/NA	Water	Field Sampling	
570-123834-10	Sample Point # 2 Third Grab	Total/NA	Water	Field Sampling	
570-123834-11	Sample Point # 2 Fourth Grab	Total/NA	Water	Field Sampling	

SM 2540C

SM 2540C

QC Association Summary

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling Job ID: 570-123834-1

Organic Prep

Analysis Batch: 295804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-123834-2	Sample Point # 1 First Grab	Total/NA	Water	Composite	
570-123834-3	Sample Point # 1 Second Grab	Total/NA	Water	Composite	
570-123834-4	Sample Point # 1 Third Grab	Total/NA	Water	Composite	
570-123834-5	Sample Point # 1 Fourth Grab	Total/NA	Water	Composite	
570-123834-8	Sample Point # 2 First Grab	Total/NA	Water	Composite	
570-123834-9	Sample Point # 2 Second Grab	Total/NA	Water	Composite	
570-123834-10	Sample Point # 2 Third Grab	Total/NA	Water	Composite	
570-123834-11	Sample Point # 2 Fourth Grab	Total/NA	Water	Composite	

Factor Run Amount Amount Field Sampling Instrument ID: NOEQUIP Composite 1 Instrument ID: NOEQUIP

Dil

Client Sample ID: Sample Point # 1 Second Grab Date Collected: 01/11/23 09:34 Date Received: 01/12/23 09:44

Prep Type Total/NA	Batch Type Analysis Instrumen	Batch Method Field Sampling It ID: NOEQUIP	Run	Dil Factor	Initial Amount	Final Amount	Batch Number 296281	Prepared or Analyzed 01/11/23 09:34	Analyst N1A	Lab EET CAL 4
Total/NA	Analysis Instrumen	Composite at ID: NOEQUIP		1			295804	01/13/23 16:40	KZX6	EET CAL 4

Client Sample ID: Sample Point # 1 Third Grab Date Collected: 01/11/23 13:37 Date Received: 01/12/23 09:44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	Field Sampling at ID: NOEQUIP		1			296281	01/11/23 13:37	N1A	EET CAL 4
Total/NA	Analysis Instrumer	Composite at ID: NOEQUIP		1			295804	01/13/23 16:40	KZX6	EET CAL 4

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

Batch

Type

Prep

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Batch

Туре

Analysis

Analysis

Date Collected: 01/11/23 06:42

Date Received: 01/12/23 09:44

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total Recoverable

Total Recoverable

Client Sample ID: Sample Point #1 Composite Date Collected: 01/11/23 17:09 Date Received: 01/12/23 09:44

Batch

200.7

245.1

245.1

Instrument ID: NOEQUIP

Instrument ID: BAL62

Instrument ID: BOD3

Client Sample ID: Sample Point # 1 First Grab

SM 2540C

SM 2540D

SM 5210B

Batch

Method

Instrument ID: ICP11

Instrument ID: HG8

Method

200.7 Rev 4.4

	Jo	ob ID: 570	0-123834-1	2
La	b Sample II		123834-1 trix: Water	
h ber 17	Prepared or Analyzed 01/17/23 06:29		EET CAL 4	5
11	01/17/23 21:01	P1R	EET CAL 4 EET CAL 4	
05 52	01/17/23 21:43 01/18/23 15:37		EET CAL 4 EET CAL 4	7
59	01/17/23 13:25		EET CAL 4	8
				9
67	01/16/23 19:39	BDH9	EET CAL 4	
44	01/13/23 13:49	U7UR	EET CAL 4	
La	b Sample II			
		Ma	trix: Water	13

EET CAL 4

EET CAL 4

Matrix: Water

Lab Chronicle

Initial

Amount

50 mL

25 mL

100 mL

300 mL

Initial

Batch

Number

296317

296611

296605

296852

296459

296267

296844

Batch

296281

295804

Final

Amount

50 mL

50 mL

1000 mL

1000 mL

Final

Dil

1

1

1

1

1

Factor

Run

Prepared or Analyzed Analyst Number Lab

01/11/23 06:42

01/13/23 16:40 KZX6

2/1/2023

Lab Sample ID: 570-123834-3

N1A

Lab Sample ID: 570-123834-4 Matrix: Water

Client Sample ID: Sample Point # 1 Fourth Grab Date Collected: 01/11/23 16:21 Date Received: 01/12/23 09:44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	Field Sampling nt ID: NOEQUIP		1			296281	01/11/23 16:21	N1A	EET CAL 4
Total/NA	Analysis Instrumer	Composite nt ID: NOEQUIP		1			295804	01/13/23 16:40	KZX6	EET CAL 4

Client Sample ID: Sample Point # 1 Composite (Grab1,2,3,4) Date Collected: 01/11/23 16:21 Date Received: 01/12/23 09:44

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			974 mL	1000 mL	296450	01/17/23 13:15	RY4P	EET CAL 4
Total/NA	Analysis	1664A		1			296527	01/17/23 16:49	USUL	EET CAL 4
	Instrumer	t ID: NO EQUIQ								

Client Sample ID: Sample Point # 2 Composite Date Collected: 01/11/23 17:18 Date Received: 01/12/23 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			50 mL	50 mL	296317	01/17/23 06:29	JP8N	EET CAL 4
Total Recoverable	Analysis Instrumen	200.7 Rev 4.4 t ID: ICP11		1			296611	01/17/23 21:09	P1R	EET CAL 4
Total/NA	Prep	245.1			25 mL	50 mL	296605	01/17/23 21:43	CS5Z	EET CAL 4
Total/NA	Analysis Instrumen	245.1 t ID: HG8		1			296852	01/18/23 15:42	C0YH	EET CAL 4
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	100 mL	1000 mL	296498	01/17/23 14:54	ZL7L	EET CAL 4
Total/NA	Analysis Instrumen	SM 2540D t ID: BAL62		1	800 mL	1000 mL	296267	01/16/23 19:39	BDH9	EET CAL 4
Total/NA	Analysis Instrumen	SM 5210B t ID: BOD3		1			296844	01/13/23 14:02	U7UR	EET CAL 4

Client Sample ID: Sample Point # 2 First Grab Date Collected: 01/11/23 06:49 Date Received: 01/12/23 09:44

Prep Type Total/NA	Batch Type Analysis Instrumen	Batch Method Field Sampling t ID: NOEQUIP	Run	Dil Factor 1	Initial Amount	Final Amount	Batch Number 296281	Prepared or Analyzed 01/11/23 06:49	Analyst N1A	Lab EET CAL 4
Total/NA	Analysis Instrumen	Composite t ID: NOEQUIP		1			295804	01/13/23 16:40	KZX6	EET CAL 4

Eurofins Calscience

Job ID: 570-123834-1

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 570-123834-5 Matrix: Water

Lab Sample ID: 570-123834-6

Lab Sample ID: 570-123834-7

Lab Sample ID: 570-123834-8

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2/1/2023

Initial

Amount

Final

Amount

295804

Dil

1

1

Factor

Run

Batch Method

Field Sampling

Composite

Prep Type

Total/NA

Total/NA

Batch

Туре

Analysis

Analysis

		Ма	trix: Water	3
				4
Batch Number	Prepared or Analyzed	Analyst	Lab	5
296281	01/11/23 09:40	N1A	EET CAL 4	6

01/13/23 16:40 KZX6

Client Sample ID: Sample Point # 2 Third Grab Date Collected: 01/11/23 13:43 Date Received: 01/12/23 09:44

Instrument ID: NOEQUIP

Instrument ID: NOEQUIP

Prep Type Total/NA	Batch Type Analysis Instrumer	Batch Method Field Sampling at ID: NOEQUIP	Run	Dil Factor 1	Initial Amount	Final Amount	Batch Number 296281	Prepared or Analyzed 01/11/23 13:43	Analyst N1A	Lab EET CAL 4
Total/NA	Analysis Instrumer	Composite nt ID: NOEQUIP		1			295804	01/13/23 16:40	KZX6	EET CAL 4

Client Sample ID: Sample Point # 2 Fourth Grab Date Collected: 01/11/23 16:29 Date Received: 01/12/23 09:44

Lab Sample ID: 570-123834-11 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analvzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			296281	01/11/23 16:29	N1A	EET CAL 4
Total/NA	Analysis Instrumen	Composite t ID: NOEQUIP		1			295804	01/13/23 16:41	KZX6	EET CAL 4

Client Sample ID: Sample Point # 2 Composte (Grab 1,2,3,4) Date Collected: 01/11/23 16:29 Date Received: 01/12/23 09:44

Lab Sample ID: 570-123834-12 **Matrix: Water**

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			978 mL	1000 mL	296450	01/17/23 13:15	RY4P	EET CAL 4
Total/NA	Analysis	1664A		1			296527	01/17/23 16:49	USUL	EET CAL 4
	Instrumer	nt ID: NO EQUIQ								

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling Job ID: 570-123834-1

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Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-16-23
California	Los Angeles County Sanitation Districts	10109	07-31-23
California	SCAQMD LAP	17LA0919	11-30-23
California	State	3082	07-31-23
Nevada	State	CA00111	08-01-23
Oregon	NELAP	4175	02-02-23
USDA	US Federal Programs	P330-22-00059	05-24-23
Washington	State	C916-18	10-11-23

Method Summary

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

Job ID: 570-123834-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET CAL 4
245.1	Mercury (CVAA)	EPA	EET CAL 4
1664A	HEM and SGT-HEM	1664A	EET CAL 4
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CAL 4
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CAL 4
SM 5210B	BOD, 5-Day	SM	EET CAL 4
Field Sampling	Field Sampling	EPA	EET CAL 4
Composite	Sample Compositing	None	EET CAL 4
1664A	HEM and SGT-HEM (Aqueous)	1664A	EET CAL 4
200.7	Preparation, Total Recoverable Metals	EPA	EET CAL 4
245.1	Preparation, Mercury	EPA	EET CAL 4

Protocol References:

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-123834-1	Sample Point # 1 Composite	Water	01/11/23 17:09	01/12/23 09:44
570-123834-2	Sample Point # 1 First Grab	Water	01/11/23 06:42	01/12/23 09:44
570-123834-3	Sample Point # 1 Second Grab	Water	01/11/23 09:34	01/12/23 09:44
570-123834-4	Sample Point # 1 Third Grab	Water	01/11/23 13:37	01/12/23 09:44
570-123834-5	Sample Point # 1 Fourth Grab	Water	01/11/23 16:21	01/12/23 09:44
570-123834-6	Sample Point # 1 Composite (Grab1,2,3,4)	Water	01/11/23 16:21	01/12/23 09:44
570-123834-7	Sample Point # 2 Composite	Water	01/11/23 17:18	01/12/23 09:44
570-123834-8	Sample Point # 2 First Grab	Water	01/11/23 06:49	01/12/23 09:44
570-123834-9	Sample Point # 2 Second Grab	Water	01/11/23 09:40	01/12/23 09:44
570-123834-10	Sample Point # 2 Third Grab	Water	01/11/23 13:43	01/12/23 09:44
570-123834-11	Sample Point # 2 Fourth Grab	Water	01/11/23 16:29	01/12/23 09:44
570-123834-12	Sample Point # 2 Composte (Grab 1,2,3,4)	Water	01/11/23 16:29	01/12/23 09:44

Job ID: 570-123834-1

F70 400004 C	Chain of Custody	

Chain of Custody Record



570-123834 Chain of Custody	Regu	atory Pro	ogram:	_]DW [NPDE:	S	[] F	RCRA		⊡ 0	ther.						lestan	ner	ca La			b/a Eu	rofins Tes	tAme
	Project Mana	ager: Anth	ony Kalis																	COC				
Client Contact	Email anthon	y kalis@nrg	; com			Site	e Co	ontact	: Antho	ony K	alis					1/11/:	2023			1	of	1_	COCs	3
arlsbad Energy Center	Tel/Fax: 760-	427-2382	/ Fax #: No	ne		Lat	b Co	ontact:	Rossi	na Te	omov	va		Carrie	er: Eur	rofins	;			TALS	Project #	ŧ		
950 Avenida Encinas	Ar	nalysis Tu	rnaround 1	Time																Samp			Anthon	ıy Ka
arlsbad, CA 92008	CALENDAR	DAYS	🗸 wo	RKING DA	YS																ab Use C)nly:		
hone (760) 427-2382	TAT i	f different fror	n Below					nu													in Client			
AX - None		2 we	eks					Ma	2		5									Lab S	ampling			
roject Name EWA Quarterly Sampling	Image: A start of the start	1 we	ek					min	Š		5													
ite Carlsbad Energy Center		2 day	ys				z	PA	ő		E									Job /	SDG No			
O # Use Credit Card		1 day	у			Ē	Σ	ornia	-BC		e (H													
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix		Filtered Sample (Y	Perform MS / MSD	200 7 - (MOD) California Admin Manual L; 245 1 - Hg	2540D - TSS, SM5210B_BOD Calc-BOD, 5 Day		1664A - Oil & Grease (HEM Only)	Field pH									Sample	e Spec	cific Notes	s
ample Point # Point # 1 - composite	1/11/2023	17 09	C	H20	8	Ν	Y	X - 2	X - 4	X - 2	2				+ +		+						0100	constructions
ample Point # 1 - First Grab	1/11/2023	6 42	G	H2O	3						X	X								_			Oil & Gr	
ample Point # 1 - Second Grab	1/11/2023	9 34	G	H2O	3	[]					X	Х								sai	nples of	each	Sump int	to c
ample Point # 1 - Third Grab	1/11/2023	13 37	G	H2O	3						X	X								co	nposite	samp	le. Analy:	se l
ample Point # 1 - Fourth Grab	1/11/2023	16 21	G	H2O	3						X	X									con	nposit	e only.	
ample Point # 2 - composite	1/11/2023	17 18	С	H2O	4	N	Ν	х	X - 2	X														
ample Point # 2 - First Grab	1/11/2023	6 49	G	H2O	3	Π					X	X								C	omposite	e the 4	Oil & Gr	reas
ample Point # 2 - Second Grab	1/11/2023	9 40	G	H2O	3				1		X	X								sai	nples of	each	Sump int	to c
ample Point # 2 -Third Grab	1/11/2023	13 43	G	H2O	3				1		x	X								co	nposite	samp	le. Analy	se t
ample Point # 2 - Fourth Grab	1/11/2023	16 29	G	H2O	3	Π			-		X	X								1	con	nposil	e only.	
						П									Sa	mple	Point #	# 1/	Time		Sampl	e Poir	t # 2/ time	e
						\square			1	1			Field	1 pH 1	69	0 pH/	/19 1°C	C @	0642		7 37 pł	-1/18 1	°C @ 064	19
- 1000 C						\square						+	Field	i pH 2	68	5 pH/	/18 9°C	C @	0934		7 32 pł	1/19 5	°C @ 094	10
1070 Marco Carlos Carlo				1	<u> </u>	\mathbf{H}	\square						_	d pH 3			/20 2°C			-	7 29 pł	-1/20 1	°C @ 134	13
						╉	╞╴┨					+	_	pH 4	-		/19 6°C						°C @ 162	
reservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4		l: 6= Other	5 J.	1,	L		,	1/4	1	1	1/2					1		-)						Annyogo
ossible Hazard Identification: re any samples from a listed EPA Hazardous Wast ne Comments Section if the lab is to dispose of the	e? Please List an				ample ı	n		_)isposa rn to Clie		fee ı	may I		essed		mples				onger t	nan 1 mo	onth)		
	Custodu Cool	Nia							~	Coo			(°C),_O	bs'd			Corr'd			Th	erm ID No	<u></u>		
Custody Seals Intact Yes No Relinquished by Annu 11	Custody Seal	INU		Date/T	ïme		Rec	seived		1000		p	3	<u> </u>	Com								5	
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5	L		·	.l			<u> </u>				0 .	110	1 4	2	611	26	Fo Sc		ı No.	CA-C-W	1-002, Re	ev. 4.2	5, dated	7/8/

Client: Carlsbad Energy Center

Login Number: 123834 List Number: 1 Creator: Nguyen, Jocelyn

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 570-123834-1

List Source: Eurofins Calscience

Eurofins TestAmerica, Irvine 17461 Derian Avenue Suite 100 Irvine, CA 92614-5843				С	hair	ı of	C	Cust	tody	y R	ec	or	d								eurofins Environment Testing TestAmerica
phone 949.261.1022 fax 949.260.3299	Regu	latory Pro	ogram: [DW [NPDE	s [F	RCRA		√ 0	ther:						Те	estAn	erica	Labo	oratories, Inc. d/b/a Eurofins TestAmerica
	Project Mana	ager: Anth	ony Kalis																		COC No:
Client Contact	Email: anthon	y.kalis@nrg	g.com			Site	Co	ontact:	Antho	ony K	alis					1/	11/20	23			1 of1 COCs
Carlsbad Energy Center	Tel/Fax: 760-	427-2382	/ Fax #: No	пе		Lab	Co	ontact:	Rossi	na To	omov	va		Ca	rrier:	Euro	fins			2	TALS Project #:
4950 Avenida Encinas	A	nalysis Tu	rnaround 1	ſime			Τ														Sampler: Anthony Kalis
Carlsbad, CA 92008		DAYS	🔽 woi	RKING DA	YS			al L;													For Lab Use Only:
Phone: (760) 427-2382	TAT	f different from	m Below					nu												1.2	Walk-in Client:
FAX - None		2 we	eeks			11		Admin Manual	av 1		2										Lab Sampling:
Project Name: EWA Quarterly Sampling		1 we	eek					lm ir	20		5										
Site: Carlsbad Energy Center		2 da					Î	Ac	ģ												Job / SDG No.:
PO # : Use Credit Card	1	1 da	у	,		Z	E	rnis	M		e H										
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y	Perform MS / MSD	200.7 - (MOD) California 245.1 - Hg	2540D - TSS; SM5210B_BOD Calc-BOD, 5 Day	2540C_Calcd-TDS	1664A - Oil & Grease (HEM Only)	Field pH									Sample Specific Notes:
Sample Point # Point # 1 - composite	1/11/2023	17:09	С	H20	8	N	Y	X - 2	X - 4	X - 2	2		_								
Sample Point # 1 - First Grab	1/11/2023	6:42	G	H2O	3						X	X									Composite the 4 Oil & Grease
Sample Point # 1 - Second Grab	1/11/2023	9:34	G	H2O	3						X	X									samples of each Sump into one
Sample Point # 1 - Third Grab	1/11/2023	13:37	G	H2O	3	П					X	X									composite sample. Analyse the
Sample Point # 1 - Fourth Grab	1/11/2023	16:21	G	H2O	3						X	X									composite only.
Sample Point # 2 - composite	1/11/2023	17:18	С	H2O	4	N	N	х	X - 2	х											
Sample Point # 2 - First Grab	1/11/2023	6:49	G	H2O	3						X	X							-		Composite the 4 Oil & Grease
Sample Point # 2 - Second Grab	1/11/2023	9:40	G	H2O	3						X	X									samples of each Sump into one
Sample Point # 2 -Third Grab	1/11/2023	13:43	G	H2O	3						X	X									composite sample. Analyse the
Sample Point # 2 - Fourth Grab	1/11/2023	16:29	G	H2O	3						X	X									composite only.
			l													Sam	ple P	oint #	: 1/ Ti	me	Sample Point # 2/ time
						П							F	ield p	H 1	6.90	pH/19	9.1°C	@ 06	j42	7.37 pH/18.1°C @ 0649
						П							F	ield p	H 2	6.85	pH/18	8.9°C	@ 09	34	7.32 pH/19.5°C @ 0940
						\square							F	ield p	НЗ	6.85	pH/20	0.2°C	@ 13	337	7.29 pH/20.1°C @ 1343
						\square					1		F	ield p	H 4	6.89	pH/1	9.6°C	@ 16	521	7.26 pH/19.3°C @ 1629
Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HI	NO3; 5=NaOH	; 6= Other		100	1.5			1/4	1	1	1/2			1)		14		124			
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? the Comments Section if the lab is to dispose of the sam		y EPA Wa	ste Codes f		ample i			nple D	•		fee r	may		Dispo			ples a		etaine		nger than 1 month)
Custody Seals Intact: Yes No	Custody Seal	No.:						/		Cool	ler Te	emp.	(°C)	Obs	'd:		Co	orr'd:		_	Therm ID No.:
Relinquished by:	Company:	1Kb		Date/T	ime: 3@ 8	00 F	Rec	ceived I	by		4	Z	E	~		Comp F	any: -An	+n	1		Date/Time: 18004-5
Relinquished by:	Company:			Date/T	ime:		Rec	ceived I	by:							Comp					Date/Time:
Relinquished by:	Company:			Date/T	ime:	F	Rec	ceived i	in Labo	orator	y by:					Comp	any:				Date/Time:

Form No.	CA-C-WI-002,	Rev. 4.25.	dated 7/8/2019
----------	--------------	------------	----------------

Project: EWA	Sampling	-	Meter	tisherSci	Accomet	APIIS
Date:	/11/23	->	Start Time:	0601		
		pH Star	dards			
	MFR	Exp. Date	Lot No.	рН	Temperat	ure
4 Buffer	HACH	2/25	A1046	4.00	22.4	°C
7 Buffer	HACIT	3/23	A1084	7.01	22,5	°C
10 Buffer	HACH	5/23	A1095	10.03	22.5	⁰ C
mv/pH read	ding / 59 mv/pH =	96.5 %	slope			
off set mv =	12.2 mv					
				24		
Potat	ole Water pH	<u>.</u>		7.84	23.5	⁰ C

Sampling and Analysis

Time	рН	Temperature			
0642	6.90	19.1 °C			
0649	7.37	18.1 °C			
	0642	0642 6.90			

Standards Check After Analysis pH Standards

pH Buffer	Time	pН	Temperature		
Potable Water	0654	7.90	23,7	°C	
pH 7.0	0656	7.03	22.1	0 ⁰ C	

End Time: 0657 Sampling and Analyses by: <u>Anthony Kalis</u> Approved by: <u>Anthony Kalis</u>

Project: <u>EWA</u>	Sampling		Meter	Fisher Sci	Accomet	- APIIS
Date: 📝	11/23		Start Time:	0917		
		pH Stan	dards			
	MFR	Exp. Date	Lot No.	рН	Tempera	ture
4 Buffer	HACIT	2/25	A 1046	4,00	22.1	°C
7 Buffer	HACH	3/23	A10 34	7.00	22.1	°C
10 Buffer	HACIT	5/23	A1095	10.04	21.9	°C
mv/pH read	ding / 59 mv/pH =	98.0 %	slope			
off set mv =	13.0 mv					
Potak	ole Water pH			7,83	22.0	°C

Sampling and Analysis

Time	pН	Temperature			
0934	6.85	18.9	٥C		
0940	7.32	19.5	°C		
	0934	0934 6.85	0934 6.85 18.9		

Standards Check After Analysis pH Standards

pH Buffer	Time	рН	Temperat	ure
Potable Water	0947	7.99	21.4	⁰ C
pH 7.0	0948	ZioBAU	21,8	٥C
		7:03		

End Time: 0949 Sampling and Analyses by: <u>Anthony Kaliz</u> Approved by: <u>Anthony Kalis</u>

~

Project: EWA	Sampling	-	Meter:	Fisher.	sci Accm	et Hp
Date: //	11/23		Start Time:	1320		
		pH Stan	dards			
	MFR	Exp. Date	Lot No.	рН	Temperat	ure
4 Buffer	HACH	2/25	A 1246	4.00	22.1	°C
7 Buffer	HACH	3/23	A1084	7.01	22.0	°C
10 Buffer	HAC1+	5/23	A 1095	10.04	22.0	⁰ C
mv/pH read	ding / 59 mv/pH =	967 %:	slope			
off set mv =	13,7 mv			-		
Potat	ble Water pH			7.66	24.5	°C

Sampling and Analysis

Time	рН	Temperatur	
1337	b.85	20.2	٥C
1343	7.29	20.1	⁰ C
		1337 b.85	1337 6.85 20.2

Standards Check After Analysis pH Standards

pH Buffer	Time	рН	Temperature	
Potable Water	1350	7.69	23.2 °C	
pH 7.0	1351	7.03	22.2 °C	

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End Time: 1352 Sampling and Analyses by: <u>Anthony Kalis</u> Approved by: <u>Anthony Kalis</u>

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Project: EWA	A Sampling		Meter	Fisher Sci	Accumet	APIL
Date:	/11/23		Start Time:	1600	>	
		pH Stan	dards			
	MFR	Exp. Date	Lot No.	рН	Тетрега	ture
4 Buffer	HACH	2/25	A1046	4.01	22.4	οC
7 Buffer	HACH	3/23	A1084	7.01	22.3	°C
10 Buffer	HACH	5723	A1095	10.04	22.3	°C
mv/pH rea	ding / 59 mv/pH =	96.5 %	slope			
off set mv =	13.0 mv					
Potal	ole Water pH			7.65	22.3	٥C
					any	

Sampling and Analysis

Time	pН	Temperatu	
1621	6.89	19.6	٥C
1629	7.26	19.3	°C
		1621 6.89	1621 6.89 19.6

Standards Check After Analysis pH Standards

pH Buffer	Time	рН	Temperature	
Potable Water	1639	7.69	22.8	°C
pH 7.0	1642	7.02	22-1	°C

	End Time: 1646
Sampling and Analyses by: _	Anthony Kulis
Approved by: _	Anthony Kalis

Mr. William Svec Compliance Project Manager Encina Wastewater Authority 6200 Avenida Encinas Carlsbad, California 92011

RE: CARLSBAD ENERGY CENTER PROJECT, SECOND QUARTER OF 2023 WASTE WATER SAMPLES

Dear Mr. Svec:

Carlsbad Energy Center LLC ("Project Owner") submits the results for the required samples for the Second Quarter of 2023 (2Q2023). This report is submitted in compliance with the table in condition 2 of permit number 2405. The samples were taken on April 12, 2023. The following table summarizes the results:

			Res	ults	
Constituent	Limit	Units	Sample Point 1	Sample Point 2	Notes
Arsenic, Total	1.5	mg/L	ND	ND	
Cadmium, Total	0.77	mg/L	ND	ND	
Chromium, Total	3.5	mg/L	ND	ND	
Copper, Total	11	mg/L	0.0030*	0.042*	* Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
Lead, Total	5.1	mg/L	ND	ND	
Mercury, Total	0.27	mg/L	ND	ND	
Molybdenum, Total	4.1	mg/L	0.014*	0.0093*	* Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
Nickel, Total	15	mg/L	0.0021*	ND	* Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
Selenium, Total	2.5	mg/L	ND	ND	
Silver, Total	4.2	mg/L	ND	ND	
Zinc, Total	29	mg/L	0.21*	0.070*	* Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
Oil and Grease (HEM)	400	mg/L	3.5	0.62*	* Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
BOD	500	lb/day	0.429	0.016	Flow - SP1: 3670.9 gal, SP2: 777.3 gal
BOD	N/A	mg/L	14	2.4	Sample Results for Calc
TDS	N/A	mg/L	450	840	
TSS	500	lb/day	0.551	0.030	Flow - SP1: 3670.9 gal, SP2: 777.3 gal
TSS	N/A	mg/L	18	4.7	Sample Results for Calc
рН	5.5-12		6.98	7.21	
рН	5.5-12		6.86	7.08	
рН	5.5-12		6.91	7.08	
рН	5.5-12		6.82	7.07	

If you have any questions or comments, please do not hesitate to contact Paul Mattesich at (760) 710-3945.

Sincerely,

Paul Mattesich Plant Manager Carlsbad Energy Center LLC

Attached: Eurofins Calscience Analytical Report Waste Water Samples – April 24, 2023 EWA Report Certification dated May 9, 2023

Cc: File



ENCINA WASTEWATER AUTHORITY

6200 AVENIDA ENCINAS, CARLSBAD, CA 92011-0195 TEL:(760)438-3941 FAX:(760)476-9852

REPORT CERTIFICATION

I. INDUSTRIAL USER INFORMATION:

Carlsbad Energy Center LLC

Industrial User Name 4950 Avenida Encinas	Carlsbad	92008	760-710-3943
Facility Address	City	Zip Code	(Area Code) Phone
Carlsbad Energy Center LLC			
Owner			
Paul Mattesich		Plant Manager	
IU Contact		Title	
City of Carlsbad	2405		
Member Agency	Permit #		

II. CERTIFICATION STATEMENT:

All applications, reports or information submitted to the Encina Wastewater Authority must include the following certification statement and be signed as required by a responsible corporate officer, President, Vice President, Manager, CEO or an authorized representative.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

5/9/2023

DATE

Carlsbad CITY OR COUNTY

PRESIDENT/VP/GENERAL MGR/CEO (Print and sign name)



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Anthony Kalis Carlsbad Energy Center 4950 Avenida Encinas Carlsbad, California 92008 Generated 4/24/2023 9:52:03 AM

JOB DESCRIPTION

EWA Quarterly Sampling

JOB NUMBER

570-134937-1

Eurofins Calscience 2841 Dow Avenue, Suite 100 Tustin CA 92780





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Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager. The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

4/24/2023 9:52:03 AM

Generated

Authorized for release by Rossina Tomova, Project Manager I <u>Rossina.Tomova@et.eurofinsus.com</u> (657)210-6367

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Method Summary	32
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Qualifiers

Metals	
Qualifier Description	4
J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
General Chemistry	5
Qualifier Qualifier Description	
J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
Glossary	7
Abbreviation These commonly used abbreviations may or may not be present in this report.	
¤ Listed under the "D" column to designate that the result is reported on a dry weight basis	8
%R Percent Recovery	
CFL Contains Free Liquid	9
CFU Colony Forming Unit	
CNF Contains No Free Liquid	
DER Duplicate Error Ratio (normalized absolute difference)	
Dil Fac Dilution Factor	
DL Detection Limit (DoD/DOE)	
DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC Decision Level Concentration (Radiochemistry)	
EDL Estimated Detection Limit (Dioxin)	
LOD Limit of Detection (DoD/DOE)	13
LOQ Limit of Quantitation (DoD/DOE)	
MCL EPA recommended "Maximum Contaminant Level"	
MDA Minimum Detectable Activity (Radiochemistry)	
MDC Minimum Detectable Concentration (Radiochemistry)	
MDL Method Detection Limit	
ML Minimum Level (Dioxin)	
MPN Most Probable Number	
MQL Method Quantitation Limit	
NC Not Calculated	
ND Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG Negative / Absent	
POS Positive / Present	
PQL Practical Quantitation Limit	
PRES Presumptive	
QC Quality Control	
RER Relative Error Ratio (Radiochemistry)	
RL Reporting Limit or Requested Limit (Radiochemistry)	
RPD Relative Percent Difference, a measure of the relative difference between two points	
TEF Toxicity Equivalent Factor (Dioxin)	
TEQ Toxicity Equivalent Quotient (Dioxin)	
TNTC Too Numerous To Count	

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-134937-1

Receipt

The samples were received on 4/13/2023 2:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.6°C and 1.9°C

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Field Service / Mobile Lab

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Organic Prep

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 570-134937-1

Detection Summary

Client Sample ID: Sample Point # 1 Composite

Lab Sample ID: 570-134937-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Туре
Copper	0.0030	J	0.050	0.0016	mg/L	1	200.7 Rev 4.4	Total
								Recoverable
Molybdenum	0.014	J	0.050	0.0059	mg/L	1	200.7 Rev 4.4	Total
								Recoverable
Nickel	0.0021	J	0.050	0.0015	mg/L	1	200.7 Rev 4.4	Total
								Recoverable
Zinc	0.21	J	0.25	0.0046	mg/L	1	200.7 Rev 4.4	Total
								Recoverable
Total Dissolved Solids	450		10	8.7	mg/L	1	SM 2540C	Total/NA
Total Suspended Solids	18		1.7	1.4	mg/L	1	SM 2540D	Total/NA
Biochemical Oxygen Demand	14		4.3	2.1	mg/L	1	SM 5210B	Total/NA

Client Sample ID: Sample Point # 1 First Grab

Analyte Field pH	Result	Qualifier	RL	NONE	Unit SU	Dil Fac	D	Method Field Sampling	Prep Type Total/NA
Field Temperature	18.40				Celsius	1		Field Sampling	Total/NA
Composited	yes				NONE	1		Composite	Total/NA

Client Sample ID: Sample Point # 1 Second Grab

Analyte	Result	Qualifier	RL	NONE	Unit	Dil Fac	D	Method	Prep Type	
Field pH	6.86				SU	1		Field Sampling	Total/NA	
Field Temperature	18.70				Celsius	1		Field Sampling	Total/NA	
Composited	yes				NONE	1		Composite	Total/NA	

Client Sample ID: Sample Point # 1 Third Grab

Analyte	Result Qualifier	RL	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	6.91			SU	1	_	Field Sampling	Total/NA
Field Temperature	18.70			Celsius	1		Field Sampling	Total/NA
Composited	yes			NONE	1		Composite	Total/NA

Client Sample ID: Sample Point #1 Fourth Grab

Analyte	Result Qualifier	RL	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	6.82			SU	1	_	Field Sampling	Total/NA
Field Temperature	18.80			Celsius	1		Field Sampling	Total/NA
Composited	yes			NONE	1		Composite	Total/NA

Client Sample ID: Sample Point #1 Composite

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Ргер Туре
HEM (Oil & Grease)	3.5	1.0	0.52 mg/L	11664A	Total/NA

Client Sample ID: Sample Point # 2 Composite

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Ргер Туре
Copper	0.042	J	0.050	0.0016	mg/L	1	200.7 Rev 4.4	Total
								Recoverable
Molybdenum	0.0093	J	0.050	0.0059	mg/L	1	200.7 Rev 4.4	Total
								Recoverable
Zinc	0.070	J	0.25	0.0046	mg/L	1	200.7 Rev 4.4	Total
								Recoverable
Total Dissolved Solids	840		10	8.7	mg/L	1	SM 2540C	Total/NA
Total Suspended Solids	4.7		1.0	0.83	mg/L	1	SM 2540D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Lab Sample ID: 570-134937-3

Lab Sample	ID: 570-134937-4
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Lab Sample ID: 570-134937-5

Lab Sample ID: 570-134937-6

Lab Sample ID: 570-134937-7

Detection Summary

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

Job ID: 570-134937-1

Client Sample ID: Sample	e Point # 2	Composite	e (Contir	ued)		Lab Sa	Im	ple ID: 570	-134937-7
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Biochemical Oxygen Demand	2.4		2.0	1.0	mg/L	1	_	SM 5210B	Total/NA
Client Sample ID: Sample	e Point # 2	First Grab				Lab Sa	ım	ple ID: 570	-134937-
Analyte	Result	Qualifier	RL	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.21				SU	1	_	Field Sampling	Total/NA
Field Temperature	19.20				Celsius	1		Field Sampling	Total/NA
Composited	yes				NONE	1		Composite	Total/NA
Client Sample ID: Sample	e Point # 2	Second G	rab			Lab Sa	m	ple ID: 570	-134937-
Analyte	Result	Qualifier	RL	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.08				SU	1	_	Field Sampling	Total/NA
Field Temperature	19.20				Celsius	1		Field Sampling	Total/NA
Composited	yes				NONE	1		Composite	Total/NA
Client Sample ID: Sample	e Point # 2	Third Grab)			Lab San	np	ole ID: 570-1	134937-1
_ Analyte	Result	Qualifier	RL	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.08				SU	1	_	Field Sampling	Total/NA
Field Temperature	19.50				Celsius	1		Field Sampling	Total/NA
Composited	yes				NONE	1		Composite	Total/NA
Client Sample ID: Sample	e Point # 2	Fourth Gra	ab			Lab Sar	np	ole ID: 570-1	134937-1
Analyte	Result	Qualifier	RL	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.07				SU	1	-	Field Sampling	Total/NA
Field Temperature	19.00				Celsius	1		Field Sampling	Total/NA
Composited	yes				NONE	1		Composite	Total/NA
Client Sample ID: Sample	e Point # 2	Composte				Lab San	np	ole ID: 570-1	134937-1
_ Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HEM (Oil & Grease)	0.62		1.0		mg/L	1	—	1664A	Total/NA

5210B)

Client Sample ID: Sample Point # 1 Composite Date Collected: 04/12/23 17:15 Date Received: 04/13/23 14:00

5

6

Lab Sample ID: 570-134937-1 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.10	0.0097	mg/L		04/15/23 06:56	04/15/23 20:24	1
Cadmium	ND		0.010	0.00045	mg/L		04/15/23 06:56	04/15/23 20:24	1
Chromium	ND		0.050	0.0030	mg/L		04/15/23 06:56	04/15/23 20:24	1
Copper	0.0030	J	0.050	0.0016	mg/L		04/15/23 06:56	04/15/23 20:24	1
Lead	ND		0.050	0.0060	mg/L		04/15/23 06:56	04/15/23 20:24	1
Molybdenum	0.014	J	0.050	0.0059	mg/L		04/15/23 06:56	04/15/23 20:24	1
Nickel	0.0021	J	0.050	0.0015	mg/L		04/15/23 06:56	04/15/23 20:24	1
Selenium	ND		0.10	0.012	mg/L		04/15/23 06:56	04/15/23 20:24	1
Silver	ND		0.010	0.0034	mg/L		04/15/23 06:56	04/15/23 20:24	1
Zinc	0.21	J	0.25	0.0046	mg/L		04/15/23 06:56	04/15/23 20:24	1
Method: EPA 245.1 - Mercury (C	VAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		04/14/23 18:37	04/15/23 15:54	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	450		10	8.7	mg/L			04/19/23 17:10	1
Total Suspended Solids (SM 2540D)	18		1.7	1.4	mg/L			04/15/23 14:17	1
Biochemical Oxygen Demand (SM	14		4.3	2.1	mg/L		04/14/23 12:31	04/14/23 13.27	1

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13

Client Sample ID: Sample Point # 1 First Grab Lab Sample ID: 570-134937-2 Date Collected: 04/12/23 07:30 **Matrix: Water** Date Received: 04/13/23 14:00 Method: EPA Field Sampling - Field Sampling Analyte Result Qualifier RL NONE Unit D Prepared Analyzed Dil Fac Field pH 6.98 รบ 04/12/23 07:30 1 **Field Temperature** Celsius 04/12/23 07:30 18.40 1 Method: Composite - Sample Compositing NONE Unit Analyte **Result Qualifier** NONE D Prepared Analyzed Dil Fac NONE 04/14/23 11:16 Composited 1 yes

6

13

Client Sample ID: Sample Point # 1 Second Grab Lab Sample ID: 570-134937-3 Date Collected: 04/12/23 09:54 Matrix: Water Date Received: 04/13/23 14:00 Method: EPA Field Sampling - Field Sampling Analyte Result Qualifier RL NONE Unit D Prepared Analyzed Dil Fac Field pH รบ 04/12/23 09:54 6.86 1 **Field Temperature** Celsius 04/12/23 09:54 18.70 1 Method: Composite - Sample Compositing NONE Unit Analyte **Result Qualifier** NONE D Prepared Analyzed Dil Fac NONE 04/14/23 11:16 Composited 1 yes

Client Sample ID: Sample Point # 1 Third Grab Lab Sample ID: 570-134937-4 Date Collected: 04/12/23 13:02 Matrix: Water Date Received: 04/13/23 14:00 Method: EPA Field Sampling - Field Sampling Analyte Result Qualifier RL NONE Unit D Prepared Analyzed Dil Fac Field pH รบ 04/12/23 13:02 6.91 1 **Field Temperature** Celsius 04/12/23 13:02 18.70 1 Method: Composite - Sample Compositing NONE Unit Analyte **Result Qualifier** NONE D Prepared Analyzed Dil Fac NONE 04/14/23 11:16 Composited 1 yes

13

Client Sample ID: Sample Point #1 Fourth Grab Lab Sample ID: 570-134937-5 Date Collected: 04/12/23 16:17 Matrix: Water Date Received: 04/13/23 14:00 Method: EPA Field Sampling - Field Sampling Analyte Result Qualifier RL NONE Unit D Prepared Analyzed Dil Fac Field pH รบ 04/12/23 16:17 6.82 1 **Field Temperature** Celsius 04/12/23 16:17 18.80 1 Method: Composite - Sample Compositing NONE Unit Analyte **Result Qualifier** NONE D Prepared Analyzed Dil Fac NONE 04/14/23 11:16 Composited 1 yes

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Client Sample Results

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

Job ID: 570-134937-1

Client Sample ID: Sample Date Collected: 04/12/23 16:17 Date Received: 04/13/23 14:00	Point # 1 C	omposite				La	ib Sample	ID: 570-134 Matrix	
General Chemistry Analyte	Result Q	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	3.5		1.0	0.52	mg/L		04/14/23 11:01	04/17/23 07:33	1

Client Sample ID: Sample Point # 2 Composite Date Collected: 04/12/23 17:28 Date Received: 04/13/23 14:00

5

6

Lab Sample ID: 570-134937-7 Matrix: Water

Method: EPA 200.7 Rev 4.4 - Me Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.10	0.0097	mg/L		04/15/23 06:56	04/15/23 20:58	1
Cadmium	ND		0.010	0.00045	-		04/15/23 06:56	04/15/23 20:58	1
Chromium	ND		0.050	0.0030	mg/L		04/15/23 06:56	04/15/23 20:58	1
Copper	0.042	J	0.050	0.0016	mg/L		04/15/23 06:56	04/15/23 20:58	1
Lead	ND		0.050	0.0060	mg/L		04/15/23 06:56	04/15/23 20:58	1
Molybdenum	0.0093	J	0.050	0.0059	mg/L		04/15/23 06:56	04/15/23 20:58	1
Nickel	ND		0.050	0.0015	mg/L		04/15/23 06:56	04/15/23 20:58	1
Selenium	ND		0.10	0.012	mg/L		04/15/23 06:56	04/15/23 20:58	1
Silver	ND		0.010	0.0034	mg/L		04/15/23 06:56	04/15/23 20:58	1
Zinc	0.070	J	0.25	0.0046	mg/L		04/15/23 06:56	04/15/23 20:58	1
Method: EPA 245.1 - Mercury (C									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		04/14/23 18:37	04/15/23 16:01	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	840		10	8.7	mg/L		-	04/19/23 17:10	1
Total Suspended Solids (SM 2540D)	4.7		1.0	0.83	mg/L			04/15/23 14:17	1
Biochemical Oxygen Demand (SM 5210B)	2.4		2.0	1.0	mg/L		04/14/23 12:31	04/14/23 13:21	1

6

13

Client Sample ID: Sample Point # 2 First Grab Lab Sample ID: 570-134937-8 Date Collected: 04/12/23 07:38 Matrix: Water Date Received: 04/13/23 14:00 Method: EPA Field Sampling - Field Sampling Analyte Result Qualifier RL NONE Unit D Prepared Analyzed Dil Fac Field pH รบ 04/12/23 07:38 7.21 1 **Field Temperature** Celsius 04/12/23 07:38 19.20 1 Method: Composite - Sample Compositing NONE Unit Analyte **Result Qualifier** NONE D Prepared Analyzed Dil Fac 04/14/23 11:16 NONE Composited 1 yes

Client Sample ID: Sample Point # 2 Second Grab Lab Sample ID: 570-134937-9 Date Collected: 04/12/23 10:00 Matrix: Water Date Received: 04/13/23 14:00 Method: EPA Field Sampling - Field Sampling Analyte Result Qualifier RL NONE Unit D Prepared Analyzed Dil Fac Field pH 7.08 รบ 04/12/23 10:00 1 **Field Temperature** Celsius 04/12/23 10:00 19.20 1 Method: Composite - Sample Compositing NONE Unit Analyte **Result Qualifier** NONE D Prepared Analyzed Dil Fac NONE 04/14/23 11:16 Composited 1 yes

13

6

13

Client Sample ID: Sample Point # 2 Third Grab Lab Sample ID: 570-134937-10 Date Collected: 04/12/23 13:10 Matrix: Water Date Received: 04/13/23 14:00 Method: EPA Field Sampling - Field Sampling Analyte Result Qualifier RL NONE Unit D Prepared Analyzed Dil Fac Field pH 7.08 รบ 04/12/23 13:10 1 **Field Temperature** Celsius 04/12/23 13:10 19.50 1 Method: Composite - Sample Compositing NONE Unit Analyte **Result Qualifier** NONE D Prepared Analyzed Dil Fac NONE 04/14/23 11:16 Composited 1 yes

1

1

1

6

13

Client Sample ID: Sample Point # 2 Fourth Grab Lab Sample ID: 570-134937-11 Date Collected: 04/12/23 16:25 Matrix: Water Date Received: 04/13/23 14:00 Method: EPA Field Sampling - Field Sampling Analyte Result Qualifier RL NONE Unit D Prepared Analyzed Dil Fac Field pH รบ 04/12/23 16:25 7.07 **Field Temperature** Celsius 04/12/23 16:25 19.00 Method: Composite - Sample Compositing NONE Unit Analyte **Result Qualifier** NONE D Prepared Analyzed Dil Fac NONE 04/14/23 11:17 Composited yes

Client Sample Results

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling Job ID: 570-134937-1

Client Sample ID: Sample	Point # 2	Composte				Lab	o Sample II	D: 570-1349	37-12
Date Collected: 04/12/23 16:25								Matrix	: Water
Date Received: 04/13/23 14:00									
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	0.62	J	1.0	0.53	mg/L		04/14/23 11:01	04/17/23 07:33	1
HEM (Oil & Grease) (1664A)	0.62	J	1.0	0.53	mg/L		04/14/23 11:01	04/17/23 07:33	

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 570-320707/1-A Matrix: Water Analysis Batch: 320880

M	З МВ							
Analyte Resu	lt Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic N	5	0.10	0.0097	mg/L		04/15/23 06:56	04/15/23 20:17	1
Cadmium N	C	0.010	0.00045	mg/L		04/15/23 06:56	04/15/23 20:17	1
Chromium N	C	0.050	0.0030	mg/L		04/15/23 06:56	04/15/23 20:17	1
Copper N	C	0.050	0.0016	mg/L		04/15/23 06:56	04/15/23 20:17	1
Lead N	C	0.050	0.0060	mg/L		04/15/23 06:56	04/15/23 20:17	1
Molybdenum N	C	0.050	0.0059	mg/L		04/15/23 06:56	04/15/23 20:17	1
Nickel N	C	0.050	0.0015	mg/L		04/15/23 06:56	04/15/23 20:17	1
Selenium N	C	0.10	0.012	mg/L		04/15/23 06:56	04/15/23 20:17	1
Silver N	C	0.010	0.0034	mg/L		04/15/23 06:56	04/15/23 20:17	1
Zinc N	2	0.25	0.0046	mg/L		04/15/23 06:56	04/15/23 20:17	1

Lab Sample ID: LCS 570-320707/2-A Matrix: Water Analysis Batch: 320880

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 320707

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 320707

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	0.500	0.503		mg/L		101	85 - 115
Cadmium	0.500	0.508		mg/L		102	85 - 115
Chromium	0.500	0.509		mg/L		102	85 - 115
Copper	0.500	0.498		mg/L		100	85 - 115
Lead	0.500	0.510		mg/L		102	85 - 115
Molybdenum	0.500	0.512		mg/L		102	85 - 115
Nickel	0.500	0.510		mg/L		102	85 - 115
Selenium	0.500	0.484		mg/L		97	85 - 115
Silver	0.250	0.250		mg/L		100	85 - 115
Zinc	0.500	0.509		mg/L		102	85 - 115

Lab Sample ID: LCSD 570-320707/3-A Matrix: Water Analysis Batch: 320880

Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.500	0.491		mg/L		98	85 - 115	2	20
0.500	0.492		mg/L		98	85 - 115	3	20
0.500	0.496		mg/L		99	85 - 115	3	20
0.500	0.485		mg/L		97	85 - 115	3	20
0.500	0.492		mg/L		98	85 - 115	4	20
0.500	0.504		mg/L		101	85 - 115	2	20
0.500	0.497		mg/L		99	85 - 115	2	20
0.500	0.482		mg/L		96	85 - 115	0	20
0.250	0.244		mg/L		97	85 - 115	3	20
0.500	0.496		mg/L		99	85 - 115	3	20
	Added 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.250	Added Result 0.500 0.491 0.500 0.492 0.500 0.492 0.500 0.496 0.500 0.485 0.500 0.492 0.500 0.492 0.500 0.492 0.500 0.492 0.500 0.504 0.500 0.497 0.500 0.482 0.250 0.244	Added Result Qualifier 0.500 0.491 0.500 0.492 0.500 0.492 0.500 0.496 0.500 0.496 0.500 0.492 0.500 0.492 0.500 0.492 0.500 0.492 0.500 0.492 0.500 0.504 0.504 0.500 0.500 0.497 0.500 0.482 0.250 0.244 0.250 0.244	Added Result Qualifier Unit 0.500 0.491 mg/L 0.500 0.492 mg/L 0.500 0.496 mg/L 0.500 0.496 mg/L 0.500 0.496 mg/L 0.500 0.492 mg/L 0.500 0.492 mg/L 0.500 0.504 mg/L 0.500 0.497 mg/L 0.500 0.482 mg/L 0.500 0.244 mg/L	Added Result Qualifier Unit D 0.500 0.491 mg/L mg/L mg/L 0.500 0.492 mg/L mg/L 0.500 0.496 mg/L mg/L 0.500 0.496 mg/L mg/L 0.500 0.492 mg/L mg/L 0.500 0.492 mg/L mg/L 0.500 0.504 mg/L mg/L 0.500 0.497 mg/L mg/L 0.500 0.482 mg/L mg/L 0.500 0.244 mg/L mg/L	Added Result Qualifier Unit D %Rec 0.500 0.491 mg/L mg/L 98 0.500 0.492 mg/L 98 0.500 0.492 mg/L 99 0.500 0.496 mg/L 99 0.500 0.496 mg/L 97 0.500 0.485 mg/L 98 0.500 0.492 mg/L 98 0.500 0.492 mg/L 98 0.500 0.492 mg/L 98 0.500 0.492 mg/L 99 0.500 0.497 mg/L 99 0.500 0.482 mg/L 99 0.500 0.482 mg/L 96 0.250 0.244 mg/L 97	Spike LCSD LCSD MRec Added Result Qualifier Unit D %Rec Limits 0.500 0.491 mg/L 98 85-115 0.500 0.492 mg/L 98 85-115 0.500 0.496 mg/L 99 85-115 0.500 0.496 mg/L 99 85-115 0.500 0.485 mg/L 97 85-115 0.500 0.492 mg/L 98 85-115 0.500 0.492 mg/L 97 85-115 0.500 0.504 mg/L 98 85-115 0.500 0.497 mg/L 99 85-115 0.500 0.482 mg/L 99 85-115 0.500 0.482 mg/L 96 85-115 0.250 0.244 mg/L 97 85-115	Added Result Qualifier Unit D %Rec Limits RPD 0.500 0.491 mg/L 98 85-115 2 0.500 0.492 mg/L 98 85-115 3 0.500 0.496 mg/L 99 85-115 3 0.500 0.496 mg/L 99 85-115 3 0.500 0.485 mg/L 97 85-115 3 0.500 0.492 mg/L 98 85-115 3 0.500 0.492 mg/L 98 85-115 3 0.500 0.492 mg/L 98 85-115 2 0.500 0.504 mg/L 99 85-115 2 0.500 0.497 mg/L 99 85-115 2 0.500 0.482 mg/L 96 85-115 0 0.250 0.244 mg/L 97 85-115 3

Lab Sample ID: 570-134937-1 MS Matrix: Water

Client Sample ID: Sample Point # 1 Composite Prep Type: Total Recoverable

Analysis Batch: 320880									Prep Ba	itch: 32070)7
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Arsenic	ND		0.500	0.506		mg/L		101	80 - 120		

Job ID: 570-134937-1

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7

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 320707

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 570-134937-1 MS **Matrix: Water**

Analysis Batch: 320880									Prep Batch: 320707
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Cadmium	ND		0.500	0.483		mg/L		97	80 - 120
Chromium	ND		0.500	0.499		mg/L		100	80 - 120
Copper	0.0030	J	0.500	0.527		mg/L		105	80 - 120
Lead	ND		0.500	0.494		mg/L		99	80 - 120
Molybdenum	0.014	J	0.500	0.525		mg/L		102	80 - 120
Nickel	0.0021	J	0.500	0.497		mg/L		99	80 - 120
Selenium	ND		0.500	0.484		mg/L		97	80 - 120
Silver	ND		0.250	0.251		mg/L		100	80 - 120
Zinc	0.21	J	0.500	0.709		mg/L		100	80 - 120

Lab Sample ID: 570-134937-1 MSD **Matrix: Water** Analysis Batch: 320880

Prep Batch: 320707 Spike MSD MSD %Rec RPD Sample Sample Analyte **Result Qualifier** Added **Result Qualifier** Unit %Rec Limits RPD Limit D Arsenic ND 0.500 0.499 mg/L 100 80 - 120 20 1 0.480 Cadmium ND 0.500 mg/L 96 80 - 120 20 1 Chromium ND 0.500 0.491 98 80 - 120 20 mg/L 1 Copper 0.0030 J 0.500 0.519 mg/L 103 80 - 120 2 20 Lead ND 0.500 0.486 mg/L 97 80 - 120 2 20 0.500 0.519 101 20 Molybdenum 0.014 J mg/L 80 - 120 1 Nickel 0.0021 0.500 0.491 98 80 - 120 20 J mg/L 1 0.500 0.480 20 Selenium ND mg/L 96 80 - 120 1 Silver ND 0.250 0.248 99 80 - 120 20 mg/L 1 Zinc 0.500 0.700 80 - 120 0.21 J mg/L 99 1 20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 570-320615/1-A Matrix: Water Analysis Batch: 320994	МВ	МВ							Clie	ent Sam	ple ID: M Prep Ty Prep Ba	pe: Tot	tal/NA
Analyte Re	sult	Qualifier		RL	1	MDL U	Jnit		D P	repared	Analyz	zed	Dil Fac
Mercury	ND		0.0	0020	0.00	0012 n	ng/L		04/1	4/23 18:37	04/15/23	15:49	1
Lab Sample ID: LCS 570-320615/2-A Matrix: Water Analysis Batch: 320994								Clie	ent Sa	mple ID:	Lab Cor Prep Ty Prep Ba	pe: Tot	tal/NA
			Spike		LCS	LCS					%Rec		
Analyte			Added		Result	Qualit	fier	Unit	D	%Rec	Limits		
Mercury			0.00800	(0.00870			mg/L		109	85 - 115		
Lab Sample ID: LCSD 570-320615/3-A Matrix: Water Analysis Batch: 320994							С	lient Sa	ample	ID: Lab	Control Prep Ty Prep Ba	pe: Tot	tal/NA
			Spike		LCSD	LCSD	1				%Rec		RPD
Analyte			Added		Result	Qualit	fier	Unit	D	%Rec	Limits	RPD	Limit
Mercury			0.00800	(0.00828			mg/L		103	85 - 115	5	10

Client Sample ID: Sample Point # 1 Composite

Prep Type: Total Recoverable

Job ID: 570-134937-1

Job ID: 570-134937-1

Method: 245.1 - Mercury (CVAA) (Continued) Lab Sample ID: 570-134937-1 MS Client Sample ID: Sample Point #1 Composite Matrix: Water Prep Type: Total/NA Analysis Batch: 320994 Prep Batch: 320615 Sample Sample Spike MS MS %Rec **Result Qualifier** Added Result Qualifier Limits Analyte Unit D %Rec 0.00800 Mercury ND 0.00853 mg/L 107 85 - 115 Lab Sample ID: 570-134937-1 MSD Client Sample ID: Sample Point # 1 Composite **Matrix: Water** Prep Type: Total/NA Analysis Batch: 320994 **Prep Batch: 320615** Sample Sample Spike MSD MSD %Rec RPD Analyte **Result Qualifier** Added Result Qualifier Unit D %Rec Limits RPD Limit ND 0.00800 85 - 115 Mercury 0.00893 mg/L 112 5 10 Method: 1664A - HEM and SGT-HEM Lab Sample ID: MB 570-320428/1-A **Client Sample ID: Method Blank** Matrix: Water Prep Type: Total/NA Analysis Batch: 320918 Prep Batch: 320428 MB MB **Result Qualifier** RL MDL Unit Analyzed Dil Fac Analyte D Prepared 04/14/23 11:01 04/17/23 07:33 HEM (Oil & Grease) ND 1.0 0.51 mg/L 1 Lab Sample ID: LCS 570-320428/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 320918 Prep Batch: 320428 LCS LCS Spike %Rec Added Analyte **Result Qualifier** Unit %Rec Limits D HEM (Oil & Grease) 40.0 37.20 93 78 - 114 mg/L Lab Sample ID: LCSD 570-320428/3-A **Client Sample ID: Lab Control Sample Dup** Matrix: Water Prep Type: Total/NA Analysis Batch: 320918 **Prep Batch: 320428** LCSD LCSD %Rec RPD Spike Analyte Added **Result Qualifier** Unit %Rec Limits RPD Limit D HEM (Oil & Grease) 40.0 37.60 mg/L 94 78 - 114 18 Lab Sample ID: 380-39778-A-4-A MS **Client Sample ID: Matrix Spike** Matrix: Water Prep Type: Total/NA Analysis Batch: 320918 Prep Batch: 320428 Spike MS MS %Rec Sample Sample **Result Qualifier** Added Analyte **Result Qualifier** Unit D %Rec Limits HEM (Oil & Grease) ND 38.3 78 - 114 34.64 90 mg/L Lab Sample ID: 380-39778-B-4-A MSD **Client Sample ID: Matrix Spike Duplicate** Matrix: Water Prep Type: Total/NA Prep Batch: 320428 Analysis Batch: 320918 RPD Sample Sample Spike MSD MSD %Rec Analvte **Result Qualifier** Added **Result Qualifier** Unit D %Rec Limits RPD Limit HEM (Oil & Grease) ND 37.8 32.23 7 mg/L 85 78 - 114 18

QC Sample Results

Job ID: 570-134937-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

	,				/											
Lab Sample ID: MB 570-322	009/1									C	lie	nt Sam	ple ID: N	letho	t BI	ank
Matrix: Water													Prep Ty	ype: T	otal	I/NA
Analysis Batch: 322009																
		MB	MB													
Analyte	Re		Qualifier		RL		MDL			D	Pr	epared	Analy	/zed	Di	l Fac
Total Dissolved Solids		ND			10		8.7	mg/L					04/19/23	3 17:10		1
Lab Sample ID: LCS 570-32	2009/2								Cli	ent S	an	nple ID	: Lab Co			
Matrix: Water													Prep Ty	ype: T	otal	I/NA
Analysis Batch: 322009																
				Spike		-	LCS						%Rec			
Analyte				Added		Result		lifier	Unit		D	%Rec	Limits			
Total Dissolved Solids				1000		990			mg/L			99	84 - 108			
Lab Sample ID: LCSD 570-3	22009/3							C	lient S	Sampl	le I	ID: Lab	Control	Sam	ole I	Dup
Matrix: Water													Prep Ty	pe: T	otal	I/NĂ
Analysis Batch: 322009																
-				Spike		LCSD	LCS	D					%Rec			RPD
Analyte				Added		Result	Qua	lifier	Unit	ſ	D	%Rec	Limits	RPI	וכ	Limit
Total Dissolved Solids				1000		1010			mg/L			101	84 - 108		2	10
_ Lab Sample ID: 570-134937	4 DU							Clien	+ Som		. c	Somplo	Point #	1 Con		oito
Matrix: Water	-1 D0							Clien	it Sam	pie in		sample				
													Prep Ty	ype. i	ola	
Analysis Batch: 322009	Sample	Sam	nlo			ווח	DU									RPD
Analyte	Result		•			Result		lifior	Unit	r	D			RPI		Limit
Total Dissolved Solids	450	Qua				472		inter	mg/L		_				5	10
_		10							iiig/E						.	
Method: SM 2540D - Sol	ias, iota	115	uspend	iea (18	5)											
Lab Sample ID: MB 570-320	790/1									C	lie	nt Sam	ple ID: N	letho	d BI	ank
Matrix: Water													Prep Ty	ype: T	otal	I/NA
Analysis Batch: 320790																
		MB	MB													
Analyte	Re		Qualifier		RL		MDL			D	Pr	epared	Analy		Di	l Fac
Total Suspended Solids		ND			1.0		0.83	mg/L					04/15/23	3 14:17		1
Lab Sample ID: LCS 570-32	0790/2								Cli	ent S	an	nple ID	: Lab Co	ntrol	San	nple
Matrix: Water													Prep Ty			
Analysis Batch: 320790																
· · · · · , · · · · · · · · · · · · · · · · · · ·				Spike		LCS	LCS	;					%Rec			
Analyte				Added		Result			Unit	I	D	%Rec	Limits			
Total Suspended Solids				100		96.0			mg/L			96	77 - 116			
	00700/0							_	-					•		_
Lab Sample ID: LCSD 570-3	20790/3							C	ment S	sampl	e	ט: Lab	Control			
Matrix: Water													Prep Ty	pe: T	otal	I/NA
Analysis Batch: 320790				• •				_					a/ -			
				Spike		LCSD	LCS	D					%Rec			RPD
				-						_	_	~ -				
Analyte Total Suspended Solids				Added 100		Result 105	Qua	lifier	Unit mg/L	[D	%Rec 105	Limits 77 - 116	RPI) _	Limit 10

QC Sample Results

Job ID: 570-134937-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: 570-13493 Matrix: Water	7-1 DU							Clien	it Sam	ple IC): Sa	ampl	e Point # 1 Con Prep Type: To	-
Analysis Batch: 320790	Sample	Samn				ווס	DU							RPD
Analyte	Result	•				Result		lifier	Unit		D		RPD	
Total Suspended Solids	18	duum				18.0			mg/L					
Method: SM 5210B - BC	DD, 5-Day	1												
Lab Sample ID: LCS 570-32	20474/2-A								Cli	ent S	amı	ole IC	D: Lab Control S	Sample
Matrix: Water													Prep Type: To	
Analysis Batch: 321925													Prep Batch:	
				Spike		LCS	LCS	5					%Rec	
Analyte				Added		Result	Qua	lifier	Unit		D %	6Rec	Limits	
Biochemical Oxygen Demand				199		222			mg/L			112	84.6 - 115.	
L													4	
Lab Sample ID: 570-134937	7-1 DU							Clien	t Sam	ple IC): Sa	ampl	e Point # 1 Con	nposite
Matrix: Water													Prep Type: To	-
Analysis Batch: 321925													Prep Batch:	
-	Sample	Samp	le			DU	DU							RPD
Analyte	Result	Quali	fier			Result	Qua	lifier	Unit		D		RPD) Limit
Biochemical Oxygen Demand	14					13.7			mg/L					2 25
Lab Sample ID: USB 570-3	21925/2									С	lien	t Sar	nple ID: Method	l Blank
Matrix: Water													· Prep Type: To	
Analysis Batch: 321925														
-	ı	USB L	JSB											
Analyte	Re	esult C	Qualifier		RL		MDL	Unit		D	Prep	bared	Analyzed	Dil Fac
Biochemical Oxygen Demand		ND			2.0		1.0	mg/L					04/14/23 12:56	1

QC Association Summary

Job ID: 570-134937-1

Prep Batch: 320615

Metals

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-134937-1	Sample Point # 1 Composite	Total/NA	Water	245.1	
570-134937-7	Sample Point # 2 Composite	Total/NA	Water	245.1	
MB 570-320615/1-A	Method Blank	Total/NA	Water	245.1	
LCS 570-320615/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 570-320615/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
570-134937-1 MS	Sample Point # 1 Composite	Total/NA	Water	245.1	
570-134937-1 MSD	Sample Point # 1 Composite	Total/NA	Water	245.1	
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	•				Prep Batch
570-134937-1	Sample Point # 1 Composite	Total Recoverable	Water	200.7	
570-134937-7	Sample Point # 2 Composite	Total Recoverable	Water	200.7	
MB 570-320707/1-A					
	Method Blank	Total Recoverable	Water	200.7	
LCS 570-320707/2-A	Method Blank Lab Control Sample	Total Recoverable Total Recoverable	Water Water	200.7 200.7	
LCS 570-320707/2-A LCSD 570-320707/3-A 570-134937-1 MS	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 320880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-134937-1	Sample Point # 1 Composite	Total Recoverable	Water	200.7 Rev 4.4	320707
570-134937-7	Sample Point # 2 Composite	Total Recoverable	Water	200.7 Rev 4.4	320707
MB 570-320707/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	320707
LCS 570-320707/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	320707
LCSD 570-320707/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	320707
570-134937-1 MS	Sample Point # 1 Composite	Total Recoverable	Water	200.7 Rev 4.4	320707
570-134937-1 MSD	Sample Point # 1 Composite	Total Recoverable	Water	200.7 Rev 4.4	320707

Analysis Batch: 320994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-134937-1	Sample Point # 1 Composite	Total/NA	Water	245.1	320615
570-134937-7	Sample Point # 2 Composite	Total/NA	Water	245.1	320615
MB 570-320615/1-A	Method Blank	Total/NA	Water	245.1	320615
LCS 570-320615/2-A	Lab Control Sample	Total/NA	Water	245.1	320615
LCSD 570-320615/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	320615
570-134937-1 MS	Sample Point # 1 Composite	Total/NA	Water	245.1	320615
570-134937-1 MSD	Sample Point # 1 Composite	Total/NA	Water	245.1	320615

General Chemistry

Prep Batch: 320428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-134937-6	Sample Point # 1 Composite	Total/NA	Water	1664A	
570-134937-12	Sample Point # 2 Composte	Total/NA	Water	1664A	
MB 570-320428/1-A	Method Blank	Total/NA	Water	1664A	
LCS 570-320428/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 570-320428/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
380-39778-A-4-A MS	Matrix Spike	Total/NA	Water	1664A	
380-39778-B-4-A MSD	Matrix Spike Duplicate	Total/NA	Water	1664A	

QC Association Summary

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

Prep Batch: 320474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-134937-1	Sample Point # 1 Composite	Total/NA	Water	BOD Prep	
570-134937-7	Sample Point # 2 Composite	Total/NA	Water	BOD Prep	
LCS 570-320474/2-A	Lab Control Sample	Total/NA	Water	BOD Prep	
570-134937-1 DU	Sample Point # 1 Composite	Total/NA	Water	BOD Prep	

Lab Sample ID Client Sample ID 570-134937-1 Sample Point # 1 Composite		Matrix	Method	Prep Batch
Sample Point # 1 Composite	Total/NA	Water	SM 2540D	
Sample Point # 2 Composite	Total/NA	Water	SM 2540D	
Method Blank	Total/NA	Water	SM 2540D	
Lab Control Sample	Total/NA	Water	SM 2540D	
Lab Control Sample Dup	Total/NA	Water	SM 2540D	
Sample Point # 1 Composite	Total/NA	Water	SM 2540D	
	Sample Point # 1 Composite Sample Point # 2 Composite Method Blank Lab Control Sample Lab Control Sample Dup	Sample Point # 1 Composite Total/NA Sample Point # 2 Composite Total/NA Method Blank Total/NA Lab Control Sample Total/NA Lab Control Sample Dup Total/NA	Sample Point # 1 Composite Total/NA Water Sample Point # 2 Composite Total/NA Water Method Blank Total/NA Water Lab Control Sample Total/NA Water Lab Control Sample Dup Total/NA Water	Sample Point # 1 CompositeTotal/NAWaterSM 2540DSample Point # 2 CompositeTotal/NAWaterSM 2540DMethod BlankTotal/NAWaterSM 2540DLab Control SampleTotal/NAWaterSM 2540DLab Control Sample DupTotal/NAWaterSM 2540D

Analysis Batch: 320918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
570-134937-6	Sample Point # 1 Composite	Total/NA	Water	1664A	320428	
570-134937-12	Sample Point # 2 Composte	Total/NA	Water	1664A	320428	
MB 570-320428/1-A	Method Blank	Total/NA	Water	1664A	320428	
LCS 570-320428/2-A	Lab Control Sample	Total/NA	Water	1664A	320428	
LCSD 570-320428/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	320428	
380-39778-A-4-A MS	Matrix Spike	Total/NA	Water	1664A	320428	
380-39778-B-4-A MSD	Matrix Spike Duplicate	Total/NA	Water	1664A	320428	

Analysis Batch: 321925

Lab Sample ID 570-134937-1	Client Sample ID Sample Point # 1 Composite	Prep Type Total/NA	Matrix Water	Method SM 5210B	Prep Batch 320474
570-134937-7	Sample Point # 2 Composite	Total/NA	Water	SM 5210B	320474
USB 570-321925/2	Method Blank	Total/NA	Water	SM 5210B	
LCS 570-320474/2-A	Lab Control Sample	Total/NA	Water	SM 5210B	320474
570-134937-1 DU	Sample Point # 1 Composite	Total/NA	Water	SM 5210B	320474

Analysis Batch: 322009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-134937-1	Sample Point # 1 Composite	Total/NA	Water	SM 2540C	
570-134937-7	Sample Point # 2 Composite	Total/NA	Water	SM 2540C	
MB 570-322009/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-322009/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-322009/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
570-134937-1 DU	Sample Point # 1 Composite	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 320868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-134937-2	Sample Point # 1 First Grab	Total/NA	Water	Field Sampling	
570-134937-3	Sample Point # 1 Second Grab	Total/NA	Water	Field Sampling	
570-134937-4	Sample Point # 1 Third Grab	Total/NA	Water	Field Sampling	
570-134937-5	Sample Point # 1 Fourth Grab	Total/NA	Water	Field Sampling	
570-134937-8	Sample Point # 2 First Grab	Total/NA	Water	Field Sampling	
570-134937-9	Sample Point # 2 Second Grab	Total/NA	Water	Field Sampling	

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Job ID: 570-134937-1

QC Association Summary

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

Job ID: 570-134937-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 320868 (Continued)

Lab Sample ID	Client Sample ID	Prep Туре	Matrix	Method	Prep Batch
570-134937-10	Sample Point # 2 Third Grab	Total/NA	Water	Field Sampling	
570-134937-11	Sample Point # 2 Fourth Grab	Total/NA	Water	Field Sampling	

Organic Prep

Analysis Batch: 320432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-134937-2	Sample Point # 1 First Grab	Total/NA	Water	Composite	
570-134937-3	Sample Point # 1 Second Grab	Total/NA	Water	Composite	
570-134937-4	Sample Point # 1 Third Grab	Total/NA	Water	Composite	
570-134937-5	Sample Point # 1 Fourth Grab	Total/NA	Water	Composite	
570-134937-8	Sample Point # 2 First Grab	Total/NA	Water	Composite	
570-134937-9	Sample Point # 2 Second Grab	Total/NA	Water	Composite	
570-134937-10	Sample Point # 2 Third Grab	Total/NA	Water	Composite	
570-134937-11	Sample Point # 2 Fourth Grab	Total/NA	Water	Composite	

Analysis

Total/NA

Client Sample ID: Sample Point #1 Composite Date Collected: 04/12/23 17:15 Date Received: 04/13/23 14:00

245.1

Date Received.	04/13/23 1	4.00							
	Batch	Batch		Dil	Initial	Final	Batch	Prepared	
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analys
Total Recoverable	Prep	200.7			50 mL	50 mL	320707	04/15/23 06:56	JP8N
Total Recoverable	Analysis Instrumer	200.7 Rev 4.4 nt ID: ICP11		1			320880	04/15/23 20:24	P1R
Total/NA	Prep	245.1			25 mL	50 mL	320615	04/14/23 18:37	CS5Z

Lab Chronicle

	Instrumen	it ID: HG8						
Total/NA	Analysis Instrumen	SM 2540C at ID: BAL71	1	100 mL	1000 mL	322009	04/19/23 17:10	UWCT
Total/NA	Analysis Instrumen	SM 2540D at ID: BAL71	1	600 mL	1000 mL	320790	04/15/23 14:17	LNW3
Total/NA	Prep	BOD Prep				320474	04/14/23 12:31	U7UR
Total/NA	Analysis Instrumen	SM 5210B at ID: BOD3	1	140 mL	300 mL	321925	04/14/23 13:27	U7UR

1

Client Sample ID: Sample Point # 1 First Grab Date Collected: 04/12/23 07:30 Date Received: 04/13/23 14:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	Field Sampling at ID: NOEQUIP		1			320868	04/12/23 07:30	N1A	EET CAL 4
Total/NA	Analysis Instrumer	Composite at ID: NOEQUIP		1			320432	04/14/23 11:16	KZX6	EET CAL 4

Client Sample ID: Sample Point # 1 Second Grab Date Collected: 04/12/23 09:54 Date Received: 04/13/23 14:00

Prep Type Total/NA	Batch Type Analysis Instrumer	Batch Method Field Sampling at ID: NOEQUIP	Run	Dil Factor 1	Initial Amount	Final Amount	Batch Number 320868	Prepared or Analyzed 04/12/23 09:54	Analyst N1A	EET CAL 4
Total/NA	Analysis Instrumer	Composite nt ID: NOEQUIP		1			320432	04/14/23 11:16	KZX6	EET CAL 4

Client Sample ID: Sample Point # 1 Third Grab Date Collected: 04/12/23 13:02 Date Received: 04/13/23 14:00

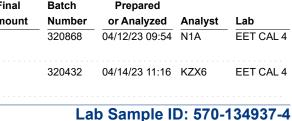
Prep Type Total/NA	Batch Type Analysis Instrument	Batch Method Field Sampling t ID: NOEQUIP	Run	Dil Factor	Initial Amount	Final Amount	Batch Number 320868	Prepared or Analyzed 04/12/23 13:02	Analyst N1A	EET CAL 4
Total/NA	Analysis Instrument	Composite t ID: NOEQUIP		1			320432	04/14/23 11:16	KZX6	EET CAL 4

Matrix: Water

Matrix: Water

Matrix: Water

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_NW3 EET CAL 4

Lab Sample ID: 570-134937-2

Lab Sample ID: 570-134937-3

Lab Sample ID: 570-134937-1

320994

or Analyzed Analyst

04/15/23 15:54 C0YH

Matrix: Water

Lab

EET CAL 4

Client Sample ID: Sample Point # 1 Fourth Grab Date Collected: 04/12/23 16:17 Date Received: 04/13/23 14:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	Field Sampling at ID: NOEQUIP		1			320868	04/12/23 16:17	N1A	EET CAL 4
Total/NA	Analysis Instrumer	Composite at ID: NOEQUIP		1			320432	04/14/23 11:16	KZX6	EET CAL 4

Client Sample ID: Sample Point # 1 Composite Date Collected: 04/12/23 16:17 Date Received: 04/13/23 14:00

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664A		· ·	982 mL	1000 mL	320428	04/14/23 11:01	RY4P	EET CAL 4
Total/NA	Analysis	1664A		1			320918	04/17/23 07:33	L6IE	EET CAL 4
	Instrumer	t ID: NO EQUIQ								

Client Sample ID: Sample Point # 2 Composite Date Collected: 04/12/23 17:28 Date Received: 04/13/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7		Factor	50 mL	50 mL	320707	$\frac{01\text{Analyzeu}}{04/15/2306:56}$	JP8N	EET CAL 4
Total Recoverable		200.7 200.7 Rev 4.4		1	JUIL	30 IIIL		04/15/23 20:58		EET CAL 4
Iotal Recoverable	Analysis Instrumer	200.7 Rev 4.4 nt ID: ICP11		I			320880	04/15/23 20:56	PIK	EET CAL 4
Total/NA	Prep	245.1			25 mL	50 mL	320615	04/14/23 18:37	CS5Z	EET CAL 4
Total/NA	Analysis Instrumer	245.1 nt ID: HG8		1			320994	04/15/23 16:01	C0YH	EET CAL 4
Total/NA	Analysis Instrumer	SM 2540C nt ID: BAL71		1	100 mL	1000 mL	322009	04/19/23 17:10	UWCT	EET CAL 4
Total/NA	Analysis Instrumer	SM 2540D nt ID: BAL71		1	1000 mL	1000 mL	320790	04/15/23 14:17	LNW3	EET CAL 4
Total/NA	Prep	BOD Prep					320474	04/14/23 12:31	U7UR	EET CAL 4
Total/NA	Analysis Instrumer	SM 5210B nt ID: BOD3		1	300 mL	300 mL	321925	04/14/23 13:21	U7UR	EET CAL 4

Client Sample ID: Sample Point # 2 First Grab Date Collected: 04/12/23 07:38 Date Received: 04/13/23 14:00

Lab Sample ID: 570-134937-8 Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	Field Sampling at ID: NOEQUIP		1			320868	04/12/23 07:38	N1A	EET CAL 4
Total/NA	Analysis Instrumer	Composite at ID: NOEQUIP		1			320432	04/14/23 11:16	KZX6	EET CAL 4

Eurofins Calscience

Job ID: 570-134937-1

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 570-134937-5

Lab Sample ID: 570-134937-6

Lab Sample ID: 570-134937-7

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Client Sample ID: Sample Point # 2 Second Grab Date Collected: 04/12/23 10:00 Date Received: 04/13/23 14:00

Prep Type Total/NA	Batch Type Analysis Instrumen	Batch <u>Method</u> Field Sampling t ID: NOEQUIP	Run	Dil Factor	Initial Amount	Final Amount	Batch Number 320868	Prepared or Analyzed 04/12/23 10:00	Analyst N1A	EET CAL 4
Total/NA	Analysis Instrumen	Composite t ID: NOEQUIP		1			320432	04/14/23 11:16	KZX6	EET CAL 4

Client Sample ID: Sample Point # 2 Third Grab Date Collected: 04/12/23 13:10 Date Received: 04/13/23 14:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	Field Sampling at ID: NOEQUIP		1			320868	04/12/23 13:10	N1A	EET CAL 4
Total/NA	Analysis Instrumer	Composite at ID: NOEQUIP		1			320432	04/14/23 11:16	KZX6	EET CAL 4

Client Sample ID: Sample Point # 2 Fourth Grab Date Collected: 04/12/23 16:25 Date Received: 04/13/23 14:00

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Factor Amount Amount Number or Analyzed Analyst Run Lab 320868 04/12/23 16:25 N1A EET CAL 4 Total/NA Analysis Field Sampling 1 Instrument ID: NOEQUIP Total/NA Analysis Composite 320432 04/14/23 11:17 KZX6 EET CAL 4 1 Instrument ID: NOEQUIP

Client Sample ID: Sample Point # 2 Composte Date Collected: 04/12/23 16:25 Date Received: 04/13/23 14:00

Lab Sample ID: 570-134937-12 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			972 mL	1000 mL	320428	04/14/23 11:01	RY4P	EET CAL 4
Total/NA	Analysis	1664A		1			320918	04/17/23 07:33	L6IE	EET CAL 4
	Instrumer	nt ID: NO EQUIQ								

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Job ID: 570-134937-1

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 570-134937-9

Lab Sample ID: 570-134937-10

Lab Sample ID: 570-134937-11

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

10

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-16-23
California	Los Angeles County Sanitation Districts	10109	07-31-23
California	SCAQMD LAP	17LA0919	11-30-23
California	State	3082	07-31-24
Nevada	State	CA00111	08-01-23
Oregon	NELAP	4175	02-02-24
USDA	US Federal Programs	P330-22-00059	05-24-23
Washington	State	C916-18	10-11-23

Method Summary

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

Job ID: 570-134937-1

Viethod	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET CAL 4
245.1	Mercury (CVAA)	EPA	EET CAL 4
1664A	HEM and SGT-HEM	1664A	EET CAL 4
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CAL 4
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CAL 4
SM 5210B	BOD, 5-Day	SM	EET CAL 4
ield Sampling	Field Sampling	EPA	EET CAL 4
Composite	Sample Compositing	None	EET CAL 4
664A	HEM and SGT-HEM (Aqueous)	1664A	EET CAL 4
00.7	Preparation, Total Recoverable Metals	EPA	EET CAL 4
45.1	Preparation, Mercury	EPA	EET CAL 4
BOD Prep	Preparation, BOD	SM	EET CAL 4

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

.ab Sample ID	Client Sample ID	Matrix	Collected	Received
570-134937-1	Sample Point # 1 Composite	Water	04/12/23 17:15	04/13/23 14:00
570-134937-2	Sample Point # 1 First Grab	Water	04/12/23 07:30	04/13/23 14:00
570-134937-3	Sample Point # 1 Second Grab	Water	04/12/23 09:54	04/13/23 14:00
570-134937-4	Sample Point # 1 Third Grab	Water	04/12/23 13:02	04/13/23 14:00
570-134937-5	Sample Point # 1 Fourth Grab	Water	04/12/23 16:17	04/13/23 14:00
570-134937-6	Sample Point # 1 Composite	Water	04/12/23 16:17	04/13/23 14:00
570-134937-7	Sample Point # 2 Composite	Water	04/12/23 17:28	04/13/23 14:00
570-134937-8	Sample Point # 2 First Grab	Water	04/12/23 07:38	04/13/23 14:00
570-134937-9	Sample Point # 2 Second Grab	Water	04/12/23 10:00	04/13/23 14:00
570-134937-10	Sample Point # 2 Third Grab	Water	04/12/23 13:10	04/13/23 14:00
570-134937-11	Sample Point # 2 Fourth Grab	Water	04/12/23 16:25	04/13/23 14:00
570-134937-12	Sample Point # 2 Composte	Water	04/12/23 16:25	04/13/23 14:00

Job ID: 570-134937-1

Chain of Custody Record

eurofins Loc: 570 134937 TestAmerica

		-	ogram:	DW	NPDE	S		RCRA		∠ 0)ther:				1	estAr	nerica Lab	oratories, Inc. d/b/a Eur	orins lestAmerica
	Project Man	ager: Anth	ony Kalis					_										COC No:	
Client Contact	Email: anthon					Site	e Co	ontact	Antho	ony K	Kalis				/12/2	023		1 of1	_ COCs
Carlsbad Energy Center	Tel/Fax: 760					Lab	Co	ontact:	Rossi	ina To	omo	va	Carrie	r: Euro	ofins			TALS Project #:	
4950 Avenida Encinas			rnaround 1					••										Sampler:	Anthony Kalis
Carlsbad, CA 92008	CALENDAR			RKING DA	YS			alL										For Lab Use Only:	
Phone: (760) 427-2382		if different fro	m Below					anu										Walk-in Client:	
FAX - None		2 we	eeks			11		Ű.	ay		<u>S</u>							Lab Sampling:	
Project Name: EWA Quarterly Sampling		1 we				11	~	in the second se	5 D		ō								
Site: Carlsbad Energy Center		2 da	-				ŝ	a Ao	ģ	1	μĘ							Job / SDG No.:	
PO # : Use Credit Card	V	1 da	iy	T		۲,	Σ	orni	E E		se (F								
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y	Perfo	200.7 - (MOD) California Admin Manual L; 245.1 - Hg	2540D - TSS; SM5210B_BOD Calc-BOD, 5 Day	2540C_Calcd-TDS	1664A - Oil & Grease (HEM Only)	Field pH						Sample Spec	ific Notes:
Sample Point # Point # 1 - composite	4/12/2023	17:15	C	H20	8	Ν	Y	X - 2	X - 4	X - 2	2				-				
Sample Point # 1 - First Grab	4/12/2023	7:30	G	H2O	3						X	X						Composite the 4	Oil & Grease
Sample Point # 1 - Second Grab	4/12/2023	9:54	G	H2O	3						X	X						samples of each s	Sump into one
Sample Point # 1 - Third Grab	4/12/2023	13:02	G	H2O	3						X	X					195	composite sample	e. Analyse the
Sample Point # 1 - Fourth Grab	4/12/2023	16:17	G	H2O	3						X	X						composite	e only.
Sample Point # 2 - composite	4/12/2023	17:28	С	H2O	4	Ν	Ν	Х	X - 2	X									
Sample Point # 2 - First Grab	4/12/2023	7:38	G	H2O	3						X	X						Composite the 4	Oil & Grease
Sample Point # 2 - Second Grab	4/12/2023	10:00	G	H2O	3						X	X						samples of each \$	Sump into one
Sample Point # 2 -Third Grab	4/12/2023	13:10	G	H2O	3						X	X						composite sample	e. Analyse the
Sample Point # 2 - Fourth Grab	4/12/2023	16:25	G	H2O	3						X	X						composite	e only.
				-										-	·		# 1/ Time	Sample Point	t # 2/ time
													Field pH 1	6.98	pH/1	18.4°C	@ 0730	7.21 pH/19.2°	C @ 0738
													Field pH 2	6.86	pH/	18.7°C	@ 0954	7.08 pH/19.2°	C @ 1000
													Field pH 3	6.91	pH/1	18.7°C	@ 1302	7.08 pH/19.5°	C @ 1310
													Field pH 4	6.82	pH/1	8.8°C	@ 1617	7.07 pH/19.0°	C @ 1625
Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=H	NO3; 5=NaO⊦	l; 6= Other	r					1/4	1		1/3								
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? the Comments Section if the lab is to dispose of the sam	iple.	y EPA Wa			ample i				-	-	fee i	may I			ples	_		onger than 1 month)	
Non-Hazard 🗌 Flammable Skin Irritar	nt 🗌 Poison B		Unkn	own			L	Retur	n to Clie	nt			✓ Disposal	by Lab		A	rchive for	Months	
	· · · ·																		
Custody Seals Intact: Yes No	Custody Sea	No.:		ID ·				/	-	Cool	ler Te	emp.	(°C): Obs'd:_	T.	_	orr'd:		Therm ID No.:	
Relinquished by:	Company:	IR6		Date/T	3018	00	1	ceived	en	_	/	4	\leq	Company:				Date/Time: 4/12/23	1800
John Th	Company:			Date/T	ime: 7	42	Received by:						Company: FC				Date/Time: 4-13-23	14:00	
Relinquished by:	Company:			Date/T	ime:		Rec	eived	Labo					Comp				Date/Time:	
					Pa	ge 3	34	2 of 35	-0/1	,9		1-7	7/1.6	Sc	12	Fc	orm No. C	A-C-WI-002, Rev. 4.2	5, dated 7/8/2019 4/24/2023

12 13

Client: Carlsbad Energy Center

Login Number: 134937 List Number: 1 Creator: Nguyen, Jocelyn

Answer	Comment
N/A	
N/A	
N/A	
True	
N/A	
True	
True	
True	
True	
	N/A N/A N/A True True True True True True True True

Job Number: 570-134937-1

List Source: Eurofins Calscience

Eurofins TestAmerica, Irvine 17461 Derian Avenue Suite 100 Irvine, CA 92614-5843				CI	hain	10	f C	Cust	tody	/ R	ec	or	d								;	eurofins Environment Testing TestAmerica
phone 949.261.1022 fax 949.260.3299	Regul	atory Pro	ogram: [] DW [S		RCRA		V 0	ther:							TestA	mer	ica La	abo	oratories, Inc. d/b/a Eurofins TestAmerica
	Project Mana	iger: Anth	ony Kalis																			COC No:
Client Contact	Email: anthony	y.kalis@nrç	J.com			Sit	e Cr	ontact:	Antho	ony K	alis				4/12/2023			_		1 of1 COCs		
Carlsbad Energy Center	Tel/Fax: 760-	427-2382	/ Fax #: Nc	ne		La	Lab Contact: Rossina Tomova Carr						Carrier: Eurofins							TALS Project #:		
4950 Avenida Encinas	Ar	alysis Tu	rnaround T	lime						-	-		П			1						Sampler: Anthony Kalis
Carlsbad, CA 92008	CALENDAR	CALENDAR DAYS WORKING DAYS						۲۲ ۳														For Lab Use Only:
Phone: (760) 427-2382	TAT i	TAT if different from Below						nu														Walk-in Client:
FAX - None		2 we	eks					W	2		2											Lab Sampling:
Project Name: EWA Quarterly Sampling		1 we	æk					ä	ů l		0											
Site: Carlsbad Energy Center		2 day	ys				Î	¥	ģ		EM											Job / SDG No.:
PO # : Use Credit Card		1 day	У			2	Σ	Lia			E H											
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y	Perform MS / MSD	< 200.7 - (MOD) California Admin Manual 245.1 - Hg	2540D - TSS; SM5210B_BOD Cal	2540C_Calcd-TDS	1664A - Oil & Grease (HEM Only)	Field pH				n N						Sample Specific Notes:
Sample Point # Point # 1 - composite	4/12/2023	17:15	С	H20	8		Y	X-2	X - 4	X - 2								-	-			
Sample Point # 1 - First Grab	4/12/2023	7:30	G	H2O	3	Π					x	X										Composite the 4 Oil & Grease
Sample Point # 1 - Second Grab	4/12/2023	9:54	G	H2O	3	Π					X	X										samples of each Sump into one
Sample Point # 1 - Third Grab	4/12/2023	13:02	G	H2O	3	Π				1-1	X	X										composite sample. Analyse the
Sample Point # 1 - Fourth Grab	4/12/2023	16:17	G	H2O	3	Π					X	X										composite only.
Sample Point # 2 - composite	4/12/2023	17:28	С	H2O	4	N	N	X	X - 2	X		\square										
Sample Point # 2 - First Grab	4/12/2023	7:38	G	H2O	3	Π				1	X	X										Composite the 4 Oil & Grease
Sample Point # 2 - Second Grab	4/12/2023	10:00	G	H2O	3	\Box					X	X										samples of each Sump into one
Sample Point # 2 -Third Grab	4/12/2023	13:10	G	H2O	3	\square					X	X										composite sample. Analyse the
Sample Point # 2 - Fourth Grab	4/12/2023	16:25	G	H2O	3	\Box					X	X										composite only.
						\Box										Sar	mple	Point	t # 1.	/ Tim	e	Sample Point # 2/ time
						\square						\square	F	ield p	0H 1	6.9	8 pH/	18.4	°C @	073	80	7.21 pH/19.2°C @ 0738
						Ħ		1			1	\square	F	ield p)H 2	6.8	6 pH/	18.7	°C @	095	54	7.08 pH/19.2°C @ 1000
					1	П					1	\square	F	ield p	oH 3	6.9	1 pH/	18.7	°C @) 130)2	7.08 pH/19.5°C @ 1310
				1		\Box							F	ield p	H4	6.8	2 pH/	18.8	°C @) 161	7	7.07 pH/19.0°C @ 1625
Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HM	103; 5=NaOH	; 6= Other	ŕ					1/4	1	_	1/3					131						
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? the Comments Section if the lab is to dispose of the sam ✓ Non-Hazard Flammable Skin Irritan		y EPA Wa	ste Codes f		ample i			mple D			fee r	may		J Disp			nples			ined		nger than 1 month)
Custody Seals Intact: Yes No	Custody Seal	No.:						/		Cool	ler Te	emp.	(°C)): Obs				Corric	_			Therm ID No.:
Relinquished by: Relinquished by: Relinquished by: Relinquished by: Anthony Kalis	Company:	IR6		Date/T	3818	300	1	ceived	en	-	7	~	2	-	.	Com			,			Date/Time: 4/12/23 1800
Relinquished by:	Company:			Date/T	ime:	6	Red	ceived	by:							Com	pany	:				Daté/Time:
Relinquished by:	Company:			Date/T	ime:		Ren	ceived	in Lab	orator	y by:	:				Com	pany	:				Date/Time:

Carlsbad Energy Center pH METER CALIBRATION AND ANALYSIS Method SM 4500-H+B

Project: EWA Sampling

Meter: Fischer Scientific Accunet APILS

⁰C

21.

Date: 4/12/23

Start Time:

0557

7.65

pH Standards

	MFR	Exp. Date	Lot No.	рН	Temperat	ure
4 Buffer	HACIT	12/26	A2343	4.00	21.9	0 ⁰ C
7 Buffer	MACIT	1/25	A3010A	7.01	22.0	0 ⁰ C
10 Buffer	HACIT	10/23	A227819	10.04	22,0	0 ⁰
mv/pH rea	ding / 59 mv/pH =	97.4 %:	slope			
off set mv =	+9.7 mv			-		

Potable Water pH

Sampling and Analysis

	ng ana / maijeie			
Sample Point	Time	рН	Temperat	ure
Sample Point #1	0730	6.98	18.4	°C
Sample Point #2	6738	7,21	19.2	⁰ C

Standards Check After Analysis pH Standards

pH Buffer	Time	рН	Temperature
Potable Water	0744	7,73	225 %
pH 7.0	0746	7.12	21.7 °C

Comments:

End Time 0747 Sampling and Analyses by: Approved by: Anthony Kalis

Carlsbad Energy Center pH METER CALIBRATION AND ANALYSIS Method SM 4500-H+B

Project: EWA Sampling

Meter: FischerScientific Accumet APIJ

Date: 4/12/23

Start Time:

0933

pH Standards

	MFR	Exp. Date	Lot No.	рН	Tempera	ture
4 Buffer	HACH	12/26	A2343	4.00	21.6	°C
7 Buffer	HACH	1/25	A3010A	2.01	21.6	⁰ C
10 Buffer	HACH	10/23	A2278A	10.04	21.6	⁰ C
	ding / 59 mv/pH =	96.9 %	slope			
off set mv = ⁻	+5.6 mv					
		-				
Potal	ole Water pH			7.60	20.4	⁰ C

Sampling and Analysis

r				
Sample Point	Time	pН	Temperature	
Sample Point #1	0954	6.86	18.7	0°C
Sample Point #2	1000	7.08	19.2	0 ⁰

Standards Check After Analysis pH Standards

pH Buffer	Time	рН	Temperature
Potable Water	1006	7.65	20.1 °C
pH 7.0	1007	7.03	21.5 °C

Comments: _____

End Time: 1000 Sampling and Analyses by: Anthony Kalur

Carlsbad Energy Center pH METER CALIBRATION AND ANALYSIS Method SM 4500-H+B

Project: EWA Sampling

Meter: Fisher Sci-Accmet APIS

Date: 4/12/23

Start Time: 1240

pH Standards

	MFR	Exp. Date	Lot No.	рН	Temperati	ure
4 Buffer	HACH	12/26	A2343	4.00	21.4	⁰ C
7 Buffer	HACH	1/25	AZOIDA	7,01	21.4	0°C
10 Buffer	HACH	10/23	A 2278A	10.04	21.6	⁰ C
mv/pH read	ding / 59 mv/pH =	97.0 %	slope			
off set mv =	+ 6.1 mv			-		
Potak	ole Water pH			7.56	21,1	⁰ C

Sampling and Analysis

Time	рН	Temperature
1302	6.91	18.7 °C
1310	7.08	19.5 ℃
	_	
	1302	1302 6.91

Standards Check After Analysis pH Standards

pH Buffer	Time	рН	Temperature
Potable Water	1322	7.61	23.4 °C
pH 7.0	1325	7.02	21,3 °C

Comments:

End Time: <u>1326</u> Sampling and Analyses by: <u>P-Lopez Juck</u> Approved by: Anthony Kohis

Carlsbad Energy Center pH METER CALIBRATION AND ANALYSIS Method SM 4500-H+B

Project: EWA Sampling

Meter: Fisher Scientific Accumut AP115 PL Start Time: # 1600

7.58

22.5 °C

Date: 4/12/23

pH Standards

	MFR	Exp. Date	Lot No.	рН	Temperature
4 Buffer	HACH	12/26	A2343	4.00	21-6 °C
7 Buffer	HACH	1/25	A 3010A	7.01	21,5 °C
10 Buffer	HACH	10/23	A 2278A	10.04	21.6°C
mv/pH read	ding / 59 mv/pH =	95.9 %	slope		
off set mv =	+4,9 mv				
on cornir	/// IIIV	1			

Potable Water pH

Sampling and Analysis

	ig and ranaryolo			
Sample Point	Time	pН	Temperat	ture
Sample Point #1	1617	6.82	18.8	°C
Sample Point #2	1625	7.07	19.0	°C

Standards Check After Analysis pH Standards

pH Buffer	Time	рН	Tempera	ture
Potable Water	1638	7.63	26.3	°C
pH 7.0	1639	7.02	21.7	Ο ⁰

Comments:

End Time: 1640 Jah 1 Sampling and Analyses by: Approved by: Anthom Kalos

Mr. William Svec Compliance Project Manager Encina Wastewater Authority 6200 Avenida Encinas Carlsbad, California 92011

RE: CARLSBAD ENERGY CENTER PROJECT, THIRD QUARTER OF 2023 WASTE WATER SAMPLES

Dear Mr. Svec:

Carlsbad Energy Center LLC ("Project Owner") submits the results for the required samples for the Third Quarter of 2023 (3Q2023). This report is submitted in compliance with the table in condition 2 of permit number 2405. The samples were taken on August 22, 2023. The following table summarizes the results:

			Res	ults	
Constituent	Limit	Units	Sample Point 1	Sample Point 2	Notes
Oil and Grease (HEM)	400	mg/L	ND	1.6	ND – Results less than minimum detection limit (MDL)
рН	5.5-12		6.43	7.16	

If you have any questions or comments, please do not hesitate to contact Paul Mattesich at (760) 710-3945.

Sincerely,

Paul Mattesich Plant Manager Carlsbad Energy Center LLC

Attached:Eurofins Calscience Analytical Report EWA Quarterly Sampling – August 30, 2023EWA Report Certification dated September 8, 2023

Cc: File



ENCINA WASTEWATER AUTHORITY

6200 AVENIDA ENCINAS, CARLSBAD, CA 92011-0195 TEL:(760)438-3941 FAX:(760)476-9852

REPORT CERTIFICATION

I. INDUSTRIAL USER INFORMATION:

Carlsbad Energy Center LLC			
Industrial User Name 4950 Avenida Encinas	Carlsbad	92008	760-710-3943
Facility Address Carlsbad Energy Center LLC	City	Zip Code	(Area Code) Phone
Owner Paul Mattesich		Plant Manager	
IU Contact		Title	
City of Carlsbad	2405		
Member Agency	Permit #		

II. CERTIFICATION STATEMENT:

All applications, reports or information submitted to the Encina Wastewater Authority must include the following certification statement and be signed as required by a responsible corporate officer, President, Vice President, Manager, CEO or an authorized representative.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

PAUL MATTESILH 123 ARUSRAI PRESIDENT/VP/GENERAL MGR/CEO CITY OR COUNTY

(Print and sign name)



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Anthony Kalis Carlsbad Energy Center 4950 Avenida Encinas Carlsbad, California 92008 Generated 8/30/2023 11:13:09 AM

JOB DESCRIPTION

EWA Quarterly Sampling

JOB NUMBER

570-149655-1

Eurofins Calscience 2841 Dow Avenue, Suite 100 Tustin CA 92780





Eurofins Calscience

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

Authorized for release by Rossina Tomova, Project Manager I <u>Rossina.Tomova@et.eurofinsus.com</u> (657)210-6367 Generated 8/30/2023 11:13:09 AM

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Definitions/Glossary

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

Glossary		3
Abbreviation	These commonly used abbreviations may or may not be present in this report.	_ J
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	A
%R	Percent Recovery	
CFL	Contains Free Liquid	5
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	8
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

TNTC Too Numerous To Count

Job ID: 570-149655-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-149655-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 8/23/2023 7:26 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Methods 1664A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-358647. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

HEM (Oil & Grease)

Field Temperature

Field pH

Job ID: 570-149655-1

Total/NA

Total/NA

Total/NA

Lab Sample ID: 570-149655-1

1664A

Field Sampling

Field Sampling

1

1

1

Client Sample ID: Sample Point #1 - O&G Grab

1.6

7.16

27.00

Analyte Field pH	Result Qua 6.43 •	alifier	RL	NONE	SU	Dil Fac	Field Sampling	Prep Type Total/NA
Field Temperature	29.30	&G Grab			Celsius	1 Lab Sai	Field Sampling	Total/NA
Analyte	Result Qua		RL	MDL	Unit	Dil Fac		Prep Type

1.1

0.54

mg/L

Celsius

SU

This Detection Summary does not include radiochemical test in	results.
---------------------------------------------------------------	----------

Client Sample ID: Sample Date Collected: 08/22/23 09:27 Date Received: 08/23/23 07:26		· O&G Gra	b			La	b Sample	ID: 570-149 Matrix	655-1 Water
General Chemistry Analyte HEM (Oil & Grease) (1664A)		Qualifier	RL 0.98	MDL 0.50	Unit mg/L	D	Prepared 08/28/23 09:11	Analyzed 08/28/23 13:06	Dil Fac
Method: EPA Field Sampling		-				_	_		
Analyte	Result	Qualifier	RL	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.43				SU			08/22/23 09:27	1
Field Temperature	29.30				Celsius			08/22/23 09:27	1

Client Sample ID: Sample Date Collected: 08/22/23 09:33 Date Received: 08/23/23 07:26	5	O&G Gral	0			La	ib Sample	ID: 570-149 Matrix	655-2 Water
General Chemistry Analyte HEM (Oil & Grease) (1664A)	Result	Qualifier	RL 1.1	MDL 0.54	Unit mg/L	<u>D</u>	Prepared 08/28/23 09:11	Analyzed 08/28/23 13:06	Dil Fac
Method: EPA Field Sampling		-		NONE	11		Durana and	Amelynned	
Analyte		Qualifier	RL	NONE		<u>D</u>	Prepared	Analyzed	Dil Fac
Field pH	7.16				SU			08/22/23 09:33	1
Field Temperature	27.00				Celsius			08/22/23 09:33	1

QC Sample Results

Job ID: 570-149655-1

Method: 1664A - HEM and SGT-HEM Lab Sample ID: MB 570-358647/1-A **Client Sample ID: Method Blank** Matrix: Water Prep Type: Total/NA Analysis Batch: 358770 Prep Batch: 358647 MB MB Analvte Result Qualifier RL MDL Unit Analyzed Dil Fac D Prepared HEM (Oil & Grease) 1.0 0.51 mg/L 08/28/23 09:10 08/28/23 13:06 <0.51 Lab Sample ID: LCS 570-358647/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 358770 Prep Batch: 358647 Spike LCS LCS %Rec Analyte Added Result Qualifier D %Rec Limits Unit HEM (Oil & Grease) 40.0 31.60 78 - 114 mg/L 79 Lab Sample ID: LCSD 570-358647/3-A Client Sample ID: Lab Control Sample Dup Matrix: Water Prep Type: Total/NA Analysis Batch: 358770 **Prep Batch: 358647** Spike LCSD LCSD %Rec Limits Analyte Added Result Qualifier RPD Limit Unit D %Rec HEM (Oil & Grease) 40.0 31.40 79 78 - 114 mg/L Lab Sample ID: 570-149655-1 DU Client Sample ID: Sample Point #1 - O&G Grab **Matrix: Water** Prep Type: Total/NA Analysis Batch: 358770 Prep Batch: 358647 DU DU Sample Sample Analyte **Result Qualifier** Result Qualifier Unit RPD Limit D HEM (Oil & Grease) < 0.50 <0.52 mg/L NC Lab Sample ID: 570-149655-2 DU Client Sample ID: Sample Point #2 - O&G Grab **Matrix: Water** Prep Type: Total/NA Analysis Batch: 358770 Prep Batch: 358647 DU DU Sample Sample Analyte **Result Qualifier Result Qualifier** RPD Limit Unit D HEM (Oil & Grease) 1.6 1.38 14 mg/L

1

RPD

18

RPD

18

RPD

18

QC Association Summary

General Chemistry

Prep Batch: 358647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-149655-1	Sample Point #1 - O&G Grab	Total/NA	Water	1664A	
570-149655-2	Sample Point #2 - O&G Grab	Total/NA	Water	1664A	
MB 570-358647/1-A	Method Blank	Total/NA	Water	1664A	
LCS 570-358647/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 570-358647/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
570-149655-1 DU	Sample Point #1 - O&G Grab	Total/NA	Water	1664A	
570-149655-2 DU	Sample Point #2 - O&G Grab	Total/NA	Water	1664A	
nalysis Batch: 3587	70				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
Lab Sample ID		Prep Type Total/NA	Matrix Water	Method 1664A	Prep Batch 358647
Lab Sample ID 570-149655-1	Client Sample ID				358647
Lab Sample ID 570-149655-1 570-149655-2	Client Sample ID Sample Point #1 - O&G Grab	Total/NA	Water	1664A	358647
Lab Sample ID 570-149655-1 570-149655-2 MB 570-358647/1-A	Client Sample ID Sample Point #1 - O&G Grab Sample Point #2 - O&G Grab	Total/NA Total/NA	Water Water	1664A 1664A	358647 358647 358647 358647
Lab Sample ID 570-149655-1 570-149655-2 MB 570-358647/1-A LCS 570-358647/2-A	Client Sample ID Sample Point #1 - O&G Grab Sample Point #2 - O&G Grab Method Blank	Total/NA Total/NA Total/NA	Water Water Water	1664A 1664A 1664A	358647 358647 358647 358647 358647
	Client Sample ID Sample Point #1 - O&G Grab Sample Point #2 - O&G Grab Method Blank Lab Control Sample	Total/NA Total/NA Total/NA Total/NA	Water Water Water Water	1664A 1664A 1664A 1664A	

Field Service / Mobile Lab

Analysis Batch: 358949

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
570-149655-1	Sample Point #1 - O&G Grab	Total/NA	Water	Field Sampling	
570-149655-2	Sample Point #2 - O&G Grab	Total/NA	Water	Field Sampling	

Job ID: 570-149655-1

Client Sample ID: Sample Point #1 - O&G Grab Date Collected: 08/22/23 09:27 Date Received: 08/23/23 07:26

Prep Type Total/NA Total/NA	Batch Type Prep Analysis Instrumer	Batch <u>Method</u> 1664A 1664A ti ID: NO EQUIQ	Run	Dil Factor	Initial Amount 1017 mL	Final Amount 1000 mL	Batch Number 358647 358770	Prepared or Analyzed 08/28/23 09:11 08/28/23 13:06		Lab EET CAL 4 EET CAL 4
Total/NA	Analysis Instrumer	Field Sampling t ID: NOEQUIP		1			358949	08/22/23 09:27	N1A	EET CAL 4

Client Sample ID: Sample Point #2 - O&G Grab Date Collected: 08/22/23 09:33 Date Received: 08/23/23 07:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			940 mL	1000 mL	358647	08/28/23 09:11	RY4P	EET CAL 4
Total/NA	Analysis Instrumen	1664A it ID: NO EQUIQ		1			358770	08/28/23 13:06	VB5S	EET CAL 4
Total/NA	Analysis Instrumen	Field Sampling t ID: NOEQUIP		1			358949	08/22/23 09:33	N1A	EET CAL 4

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Job ID: 570-149655-1

Lab Sample ID: 570-149655-1 Matrix: Water

Lab Sample ID: 570-149655-2

Matrix: Water

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

Laboratory: Eurofins Calscience

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	rogram	Identification Number	Expiration Date
California	St	ate	3082	07-31-24
The following analytes the agency does not o	•	ort, but the laboratory is r	not certified by the governing authority	 This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Field Sampling		Water	Field pH	
Field Sampling		Water	Field Temperature	
Oregon	N	ELAP	4175	02-02-24
The following analytes the agency does not o		ort, but the laboratory is r	not certified by the governing authority	n. This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Field Sampling		Water	Field pH	
Field Sampling		Water	Field Temperature	

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

Method	Method Description	Protocol	Laboratory
1664A	HEM and SGT-HEM	1664A	EET CAL 4
Field Sampling	Field Sampling	EPA	EET CAL 4
1664A	HEM and SGT-HEM (Aqueous)	1664A	EET CAL 4

EPA = US Environmental Protection Agency

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-149655-1	Sample Point #1 - O&G Grab	Water	08/22/23 09:27	08/23/23 07:26
570-149655-2	Sample Point #2 - O&G Grab	Water	08/22/23 09:33	08/23/23 07:26

Irvine, CA 92614-5843 phone 949.261.1022 fax 949.260.3299	Regu	latory Pro	ogram: (_ DW [s		RCRA		⊡ c)ther:						Test	Amer	ica La	boratories, Inc. d/b/a Eurof
	Project Man	ager: Anth	ony Kalis																	COC No:
Client Contact	Email: anthon	y.kalis@nrg	g.com			Sit	e Co	ontact:	Anthe	ony M	Calis					8/22	/2023	1		1 of1 COCs
Carlsbad Energy Center	Tel/Fax: 760	427-2382	/ Fax #: No	one		Lal	b Co	ontact:	Ross	ina T	omo	va		Carrie	er: Eur	ofin	s			TALS Project #:
4950 Avenida Encinas	A	nalysis Tu	rnaround	Time							T				TT			T		Sampler: Anthony Kalis
Carlsbad, CA 92008	CALENDAR	DAYS	V WC	RKING DA	YS	1		Ľ.												For Lab Use Only:
Phone: (760) 427-2382	ТАТ	if different from	m Below			1		na												Walk-in Client:
FAX - None		2 we						Mar												Lab Sampling:
Project Name: EWA Quarterly Sampling		1 we						E.	Day		Ê									
Site: Carlsbad Energy Center		2 da					î	Ę	6	1	S									Job / SDG No.:
PO # : Use Credit Card								a b	Calc-BOD,		Ē									J007 SDG N0
		1 da	у			Z	٤	Ē	n n		e (
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD	200.7 - (MOD) California Admin Manual 245.1 - Hg	2540D - TSS; SM5210B_BOD Ca	2540C_Calcd-TDS	1664A - Oil & Grease (HEM Only)	Field pH								Sample Specific Notes:
Sample Point # 1 - O&G Grab	8/22/2023	9:27	G	H20	8	N	D				X-8	×								Composite the 8 Oil & Grease samples & perform duplicates
				1							1									Composite the 8 Oil & Grease samples &
Sample Point # 2 - O&G Grab	8/22/2023	9:33	G	H20	8	N	D			_	X-8	X								perform duplicates
	- (19)					-										+	+			
															Sa	mple	Poin	t # 1/	Time	Sample Point # 2/ time
	570-149655	Chain of C	ustody			1							Fiel	d pH 1	6.4	3 p⊢	/29.3	°C @	0927	7 7.16 pH/27.0°C @ 0933
	7		1	1	1	1									1					
						\mathbf{T}				-	+	++			+					
				+		+				-	-	+			+		-			
								414		-	4/0	\vdash			+ -	-	-	_		
Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HI Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? the Comments Section if the lab is to dispose of the sam	Please List an ple.		ste Codes		ample	in				al (A	1/3 fee r					nple				longer than 1 month)
Von-Hazard Flammable Skin Irritar	nt 🗌 Poison B		Unkr	nown				Retur	n to Clie	nt			 ✓ (Disposal	by Lab	_	L	Archi	ve for_	Months
																			2	1/22 SC12
Custody Seals Intact: Ves No	Custody Seal	No.:						/	1	Coo	ler Te	emp.	°C): C)bs'd:_			Corr'	d:		Therm ID No.:
Relinquished by:		VEL		Date/Ti			1	eived	n	~>	1	K		~	Com		I. AA	m		Date/Time; 8/22/23 1422
Relinquished by:	Company:	an		Date/Ti				ceived							Com					Date/Time:
Relinquished by:	Company:			Date/Ti	ime:		Rec	Ceived	ntabo	orator	y by:				Com	Pany	Ë			Date/Time: 8/23/23 0726

Chain of Custody Record

Eurofins TestAmerica, Irvine

17461 Derian Avenue

Suite 100

🔅 eurofins 149655 Envirc TestAi

Form No. CA-C-WI-002, Rev. 4.25, dated 7/8/2019

13

Loc: 570

Client: Carlsbad Energy Center

Login Number: 149655 List Number: 1 Creator: Yu, Tiffany

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 570-149655-1

Eurofins TestAmerica, Irvine 17461 Derian Avenue Suite 100				CI	hain	0	f C	Cust	ody	/ R	ec	ord	k						i	eurofins Environment Testing TestAmerica
Irvine, CA 92614-5843 phone 949.261.1022 fax 949.260.3299	Regu	atory Pro	ogram:] DW [NPDE	s		RCRA		🗸 Ot	ther:					т	estAn	nerica	Labo	oratories, Inc. d/b/a Eurofins TestAmerica
	Project Mana					1			3											COC No:
Client Contact	Email: anthon	v.kalis@nrc	1.com			Site	e Co	ontact:	Antho	ny K	alis				8	/22/2	023			1 of1 COCs
Carlsbad Energy Center	Tel/Fax: 760-			ne		Lat	o Co	ontact:	Rossi	па То	mov	/a		Carrier	: Euro	ofins				TALS Project #:
4950 Avenida Encinas			rnaround T			П						П							-	Sampler: Anthony Kalis
Carlsbad, CA 92008		DAYS	V WOR	RKING DA	YS	11		Ľ.												For Lab Use Only:
Phone: (760) 427-2382	TAT	f different from	m Below			1		nua												Walk-in Client:
FAX - None		2 we						Mai			2									Lab Sampling:
Project Name: EWA Quarterly Sampling		1 we	ek			11		nin	5 Day		Only)									
Site: Carlsbad Energy Center		2 da	ys			11	Î	Adr), 5 D, 5	2	N N									Job / SDG No.:
PO # : Use Credit Card		1 day	у			2	2	nia	BO		Ľ									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample (Y	Perform MS / MSD	200.7 - (MOD) California Admin Manual 245.1 - Hg	2540D - TSS; SM5210B_BOD Calc-BOD,	2540C_Calcd-TDS	1664A - Oil & Grease (HEM	Field pH								Sample Specific Notes:
Sample Point # 1 - O&G Grab	8/22/2023	9:27	G	H20	8	N	D				X-8	x								Composite the 8 Oil & Grease samples & perform duplicates
Sample Point # 2 - O&G Grab	8/22/2023	9:33	G	H2O	8	N					X-8								\square	Composite the 8 Oil & Grease samples & perform duplicates
	GIZZIZOZO	0.00		1120			-				~ 0		-			+	\vdash	-		
						H						\vdash	-			-	\vdash	-	+	
				-		+ +	-						-	-	-		\vdash	-	+	
											_		_			_		_		
							_													
1. C																				
						П													\square	
						H							-	-	San	nple F	oint #	¥ 1/ Tir	me	Sample Point # 2/ time
				1				-					Fiel	ld pH 1	6.43	b pH/2	9.3°C	0 09	127	7.16 pH/27.0°C @ 0933
				-		+		-	-			+				P		0		
						+						+	+							
						H	-					+	+							
Descention lipsch de las de UCL de USCOL. A-UL		C- Oth		I			-	414			1/3									
Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HM Possible Hazard Identification:	ius; s=NaUF	, 6= Other		-			San	1/4					10 365	hassas	ifear	Inles	are	otaino	d lo	nger than 1 month)
Are any samples from a listed EPA Hazardous Waste? the Comments Section if the lab is to dispose of the sam		y EPA Wa	ste Codes f	for the s	ample i		San	npie D	ispose	II (A	iee n	nay i	Je ass	sesseu	ii sali	ipies	aren	elaine	u 101	nger than T monthy
	t Poison B		Unkn	own		-	Г	Retur	n to Clie	nt			5	Disposal b	vlah			rchive f	for	Months
													<u> </u>	Disposar D	y Lab					
								-	0	0										
Custody Seals Intact: Yes No	Custody Sea	No.:						/		Cool	er Te	emp.	(6): (Obs'd:			orr'd:			Therm ID No.:
Relinguished by: Valis	Company:	vel		Date/T	ime:	422	Rec	eived	by:	~~	1	~	-	~	Com	bany:	AU	n		Date/Time; 8/22/23 1422
Relinquished by:	Company:			Date/T			Rec	ceived	by:	-					Com		11-01			Date/Time:
Relinquished by:	Company:			Date/T	ime:		Rec	ceived	in Labo	orator	y by:				Com	bany:				Date/Time:

Carlsbad Energy Center pH METER CALIBRATION AND ANALYSIS Method SM 4500-H+B

Project: EWA	Sampling		Meter	Fisher Scier	ntitic Accu	Imet A	19115
Date: 9/	23/23		Start Time:	0947			
		pH Stan	dards				
	MFR	Exp. Date	Lot No.	рН	Temperat	ure	
4 Buffer	HACH	12/26	A2343	4.00	21.9	°C	
7 Buffer	HACH	1/25	A3010A	7.00	22-4	°C	
10 Buffer	HACH	10/23	ADD78A	10.03	22.4	°C	
mv/pH read	ding / 59 mv/pH =	95.1%	slope		-		
off set mv =	10.5 mv			_			
		-					
Potak	ole Water pH			7.79	20.7	٥C	

Sampling and Analysis

Sample Point	Time	рН	Tempera	ture
Sample Point #1	0927	6.43	29.3	٥C
Sample Point #2	0933	7.16	27.0	٥C
		-		

Standards Check After Analysis pH Standards

pH Buffer	Time	рН	Tempera	ture
Potable Water	0941	7.75	21.3	٥C
pH 7.0	0942	7.00	22.1	0 ⁰

Comments:

End Time:	0943
Sampling and Analyses by:	Ja
Approved by: Anthon	Yalis

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970

November 20, 2023

Mr. William Svec Compliance Project Manager Encina Wastewater Authority 6200 Avenida Encinas Carlsbad, California 92011

RE: CARLSBAD ENERGY CENTER PROJECT, FOURTH QUARTER OF 2023 WASTE WATER SAMPLES

Dear Mr. Svec:

Carlsbad Energy Center LLC ("Project Owner") submits the required samples results for the Fourth Quarter of 2023 (4Q2023). This report is submitted in compliance with the table in condition 2 of permit number 2405. The samples were taken on November 8, 2023. The following table summarizes the results:

		1	Res	ults]
Constituent	Limit	Units	Sample Point 1	Sample Point 2	Notes
Oil and Grease (HEM)	400	mg/L	1.0	0.69*	* Result is less than the reporting limit (RL), but greater than the minimum detection limit (MDL)
рН	5.5-12		6.58	7.38	

If you have any questions or comments, please do not hesitate to contact Paul Mattesich at (760) 710-3945.

Sincerely,

Paul Mattesich Plant Manager Carlsbad Energy Center LLC

Attached:EWA Report Certification dated November 20, 2023Eurofins Calscience Analytical Report EWA Waste Water Permit – November 14, 2023Carlsbad Energy Center pH Meter Calibration & Analysis – November 8, 2023

Cc: File



ENCINA WASTEWATER AUTHORITY

6200 AVENIDA ENCINAS, CARLSBAD, CA 92011-0195 TEL:(760)438-3941 FAX:(760)476-9852

REPORT CERTIFICATION

I. INDUSTRIAL USER INFORMATION: Carlsbad Energy Center LLC Industrial User Name 4950 Avenida Encinas Carlsbad 92008 760-710-3943 (Area Code) Phone Zip Code Facility Address City Carlsbad Energy Center LLC Owner Paul Mattesich Plant Manager **IU** Contact Title City of Carlsbad 2405 Permit # Member Agency

II. CERTIFICATION STATEMENT:

All applications, reports or information submitted to the Encina Wastewater Authority must include the following certification statement and be signed as required by a responsible corporate officer, President, Vice President, Manager, CEO or an authorized representative.

CERTIFICATION STATEMENT

(Print and sign name)

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

11/20 ATTESICH TA PRESIDENT/VP/GENERAL MGR/CEO CITY OR COUNTY



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Anthony Kalis Carlsbad Energy Center 4950 Avenida Encinas Carlsbad, California 92008 Generated 11/14/2023 4:28:36 PM

JOB DESCRIPTION

EWA Waste Water Permit

JOB NUMBER

570-160142-1

Eurofins Calscience 2841 Dow Avenue, Suite 100 Tustin CA 92780





Eurofins Calscience

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

Authorized for release by Rossina Tomova, Project Manager I <u>Rossina.Tomova@et.eurofinsus.com</u> (657)210-6367 Generated 11/14/2023 4:28:36 PM

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	16

3

Qualifiers

G

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)

DE, 103, 13E, 113		
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	11
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	12
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	13
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	14
ML	Minimum Level (Dioxin)	

MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)

- TEQ Toxicity Equivalent Quotient (Dioxin)
- Too Numerous To Count TNTC

Job ID: 570-160142-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-160142-1

Receipt

The samples were received on 11/9/2023 1:23 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 1664A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-382506. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

Client Sample ID: Sample Point #1 - O&G Grab

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Туре
HEM (Oil & Grease)	1.0		1.0	0.52	mg/L	1	1664A	Total/NA
Field pH	6.58				SU	1	Field Sampling	Total/NA
Field Temperature	25.90				Celsius	1	Field Sampling	Total/NA

Client Sample ID: Sample Point # 2 - O&G Grab

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Ргер Туре
HEM (Oil & Grease)	0.69	J	0.99	0.51	mg/L	1	1664A	Total/NA
Field pH	7.38				SU	1	Field Sampling	Total/NA
Field Temperature	25.30				Celsius	1	Field Sampling	Total/NA

Job ID: 570-160142-1

Lab Sample ID: 570-160142-2

Eurofins Calscience

Lab Sample ID: 570-160142-1

initial y

This Detection Summary does not include radiochemical test results.

Job ID: 570-160142-1

Client Sample ID: Sample Date Collected: 11/08/23 14:16 Date Received: 11/09/23 13:23	Point # 1	- O&G Gra	b			La	ib Sample	ID: 570-160 Matrix)142-1 : Water
General Chemistry Analyte HEM (Oil & Grease) (1664A)	Result	Qualifier	RL 1.0	MDL 0.52	Unit mg/L	<u>D</u>	Prepared 11/10/23 12:11	Analyzed 11/10/23 16:43	Dil Fac
Method: EPA Field Sampling		-							
Analyte	Result	Qualifier	RL	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.58				SU			11/08/23 14:16	1
Field Temperature	25.90				Celsius			11/08/23 14:16	1

Job ID: 570-160142-1

Client Sample ID: Sample Date Collected: 11/08/23 14:29 Date Received: 11/09/23 13:23	Point # 2	- 0&G Gra	ab			La	b Sample	ID: 570-160 Matrix	142-2 : Water
General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	0.69	J	0.99	0.51	mg/L		11/10/23 12:11	11/10/23 16:43	1
Method: EPA Field Sampling	- Field Sam	oling							
Analyte		Qualifier	RL	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.38				SU			11/08/23 14:29	1
Field Temperature	25.30				Celsius			11/08/23 14:29	1

QC Sample Results

Job ID: 570-160142-1

	00/4									_	SIL.			4	DIAN
Lab Sample ID: MB 570-3825	06/1-A									C	Clie	nt Samp	ole ID: Me		
Matrix: Water													Prep Typ		
Analysis Batch: 382623		мв	MD										Prep Ba	icn: 3	02500
Analyte	D		Qualifier		RL			Unit		D	п.	epared	Analyz	l	Dil Fac
HEM (Oil & Grease)	K	ND	Quaimer		1.0			mg/L				0/23 12:11			1 DII Fac
		ND			1.0		0.51	mg/∟			11/10	0/23 12.11	11/10/23	0.45	I
Lab Sample ID: LCS 570-382	506/2-A								Clie	ent S	San	nple ID:	Lab Con	trol S	ample
Matrix: Water													Prep Typ		
Analysis Batch: 382623													Prep Ba		
				Spike		LCS	LCS						%Rec		
Analyte				Added		Result	Qua	lifier	Unit		D	%Rec	Limits		
HEM (Oil & Grease)				40.0		45.00			mg/L		_	113	78 - 114		
Lab Sample ID: LCSD 570-38	2506/3-A							C	lient S	amp	ole	ID: Lab	Control S	Sampl	le Dup
Matrix: Water													Prep Typ	e: To	tal/NA
Analysis Batch: 382623													Prep Ba	tch: 3	82506
				Spike		LCSD	LCS	D					%Rec		RPD
Analyte				Added		Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limit
HEM (Oil & Grease)				40.0		44.40			mg/L		_	111	78 - 114	1	18
Lab Sample ID: 570-160142-	I DU						C	lient	Samp	le ID): S	ample F	oint # 1		
Matrix: Water													Prep Typ	e: To	tal/NA
Analysis Batch: 382623													Prep Ba	tch: 3	82506
	Sample	Sam	ple				DU								RPD
Analyte	Result	Qual	ifier			Result		lifier	Unit		D			RPD	Limit
HEM (Oil & Grease)	1.0					0.915	J		mg/L					11	18
Lab Sample ID: 570-160142-2	2 DU						C	lient	Samp	le ID): S	ample F	oint # 2	0&0	Grab
Matrix: Water													Prep Typ	e: To	tal/NA
Analysis Batch: 382623													Prep Ba	tch: 3	82506
	Sample	Sam	ple			DU	DU								RPD
Analyte	Result	Qual	lifier			Result	Qua	lifier	Unit		D			RPD	Limit
HEM (Oil & Grease)	0.69	1				0.602			mg/L		_			14	18

QC Association Summary

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

General Chemistry

Prep Batch: 382506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-160142-1	Sample Point # 1 - O&G Grab	Total/NA	Water	1664A	
570-160142-2	Sample Point # 2 - O&G Grab	Total/NA	Water	1664A	
MB 570-382506/1-A	Method Blank	Total/NA	Water	1664A	
LCS 570-382506/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 570-382506/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
570-160142-1 DU	Sample Point # 1 - O&G Grab	Total/NA	Water	1664A	
570-160142-2 DU	Sample Point # 2 - O&G Grab	Total/NA	Water	1664A	
•					
•	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	Client Sample ID Sample Point # 1 - O&G Grab	Prep Type Total/NA	Matrix Water	Method 1664A	
570-160142-1	•				382506
570-160142-1 570-160142-2	Sample Point # 1 - O&G Grab	Total/NA	Water	1664A	Prep Batch 382506 382506 382506
570-160142-1 570-160142-2 MB 570-382506/1-A	Sample Point # 1 - O&G Grab Sample Point # 2 - O&G Grab	Total/NA Total/NA	Water Water	1664A 1664A	382506 382506 382506
570-160142-1 570-160142-2 MB 570-382506/1-A LCS 570-382506/2-A	Sample Point # 1 - O&G Grab Sample Point # 2 - O&G Grab Method Blank	Total/NA Total/NA Total/NA	Water Water Water	1664A 1664A 1664A	382506 382506 382506 382506 382506
Lab Sample ID 570-160142-1 570-160142-2 MB 570-382506/1-A LCS 570-382506/2-A LCSD 570-382506/3-A 570-160142-1 DU	Sample Point # 1 - O&G Grab Sample Point # 2 - O&G Grab Method Blank Lab Control Sample	Total/NA Total/NA Total/NA Total/NA	Water Water Water Water	1664A 1664A 1664A 1664A	382506 382506 382506 382506

Field Service / Mobile Lab

Analysis Batch: 382862

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
570-160142-1	Sample Point # 1 - O&G Grab	Total/NA	Water	Field Sampling	
570-160142-2	Sample Point # 2 - O&G Grab	Total/NA	Water	Field Sampling	

Client Sample ID: Sample Point # 1 - O&G Grab Date Collected: 11/08/23 14:16 Date Received: 11/09/23 13:23

Prep Type Total/NA Total/NA	Batch Type Prep Analysis Instrumen	Batch <u>Method</u> 1664A 1664A ti ID: NO EQUIQ	Run	Dil Factor	Initial Amount 982 mL	Final Amount 1000 mL	Batch Number 382506 382623	Prepared or Analyzed 11/10/23 12:11 11/10/23 16:43	Analyst UWEZ YTB4	EET CAL 4
Total/NA	Analysis Instrumen	Field Sampling t ID: NOEQUIP		1			382862	11/08/23 14:16	N1A	EET CAL 4

Client Sample ID: Sample Point # 2 - O&G Grab Date Collected: 11/08/23 14:29 Date Received: 11/09/23 13:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			1009 mL	1000 mL	382506	11/10/23 12:11	UWEZ	EET CAL 4
Total/NA	Analysis Instrumen	1664A t ID: NO EQUIQ		1			382623	11/10/23 16:43	YTB4	EET CAL 4
Total/NA	Analysis Instrumen	Field Sampling t ID: NOEQUIP		1			382862	11/08/23 14:29	N1A	EET CAL 4

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Job ID: 570-160142-1

Lab Sample ID: 570-160142-1 Matrix: Water

Lab Sample ID: 570-160142-2

Matrix: Water

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit Job ID: 570-160142-1

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-16-23
California	SCAQMD LAP	17LA0919	11-30-23
California	State	3082	07-31-24
Nevada	State	CA00111	07-31-24
Oregon	NELAP	4175	02-02-24
USDA	US Federal Programs	P330-22-00059	06-08-26
Washington	State	C916-18	10-11-23 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

Method	Method Description	Protocol	Laboratory
1664A	HEM and SGT-HEM	1664A	EET CAL 4
Field Sampling	Field Sampling	EPA	EET CAL 4
1664A	HEM and SGT-HEM (Aqueous)	1664A	EET CAL 4
Protocol Refe	erences:		
1664A = F	PA-821-98-002		

EPA = US Environmental Protection Agency

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-160142-1	Sample Point # 1 - O&G Grab	Water	11/08/23 14:16	11/09/23 13:23
570-160142-2	Sample Point # 2 - O&G Grab	Water	11/08/23 14:29	11/09/23 13:23

Eurofins TestAmerica, Irvine 7461 Derian Avenue					hain	U		usi	Jou		eci	ora	į	60	14	2			8	eurofins Environment	
Suite 100 rvine, CA 92614-5843													Lo	c: 570)					TestAmerica	
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	Project Mana					1								001	42				CC	DC No:	_
Client Contact	Email: anthon	-				Sit	e Co	ntact:	Antho	nv K	alis				1	1/8/20	23			1 of COC	Cs
Carlsbad Energy Center	Tel/Fax: 760			ne		-		ntact:				a		Carrie	r: Eur				TA	LS Project #:	
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Carlsbad, CA 92008				RKING DA	rs	1		ï												r Lab Use Only:	
Phone: (760) 427-2382		f different from	n Below			1	11	Inual											Wa	alk-in Client:	
AX - None		2 we						Mar			2								La	b Sampling:	
Project Name: EWA Quarterly Sampling		1 we					11	nin	Day		Only)										
Site: Carlsbad Energy Center		2 da					Î	Adn	°.		Σ								Jo	b / SDG No.:	
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				1		Idu	N N	- (MOD) California Admin Manual L; - Hg		-P	8										
			Sample	1		Sar	Σ	(MOI	B Si	Salc	ō										
	0	Commit	Туре	1		ed	ĮĔĮ	1	210	ں ان	Å	됩									
Comple Identification	Sample Date	Sample Time	(C=Comp, G=Grab)	Matrix	# of Cont.	ilter	Perform MS / MSD (Y /)	200.7 245.1	2640D - TSS; SM5210B_BOD (2640C_Calcd-TDS	1664A - Oil & Grease (HEM	Field pH								Sample Specific Note	oc.
Sample Identification	Date	Time	G-Grab)	Matrix	Cont.	<u> </u>	₽	ÑÑ	N N	2	-	<u> </u>	+-		+	-+-+				Composite the 8 Oil & Grease sa	
Sample Point # 1 - O&G Grab	11/8/2023	14:16	G	H20	8	N	y	-	-		X-8	x								perform duplicates	
																			(Composite the 8 Oil & Grease s	amples &
Sample Point # 2 - O&G Grab	11/8/2023	14:29	G	H2O	8	N	Y	l -	-	-	X-8	X				$ \rightarrow $			_	perform duplicates	
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			57	70-16014	42 Chai	in of	f Cus	tody				T	Fie	ld pH 1	6.58	3 pH/25	.9°C	@ 141	6	7.38 pH/25.3°C @ 14	29
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eservation Used: 1= Ice, 2= HCI; 3= H2SO	; 4=HNO3; 5=NaOH	l; 6= Other						1/4	1	1	1/3										
Possible Hazard Identification: Are any samples from a listed EPA Hazardous W	anto? Diana Lint		to Codoc 4	for the -	amela		Sam	nple Di	isposa	II (A	tee n	nay b	e ass	sessed	it san	npies a	re re	ained	ionge	er than 1 month)	
The Comments Section if the lab is to dispose of the			are cours i	or the Si	ampiel																
	kin Irritant Poison B		🗍 Unkn	own	-	-	1 -	Returr	n to Clic	nt			. <u>ت</u>	Disposal	by Lab		□ ▲-	chive for		Months	
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Custody Seals Intact: Ves No		No.:		1			-	_		Cool	er Te	mp. (°C): (Obs'd:	0.5			0.0		Therm ID No.: <u>5C12</u>	_
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Form No. CA-C-WI-002, Rev. 4.25, dated 7/8/2019

Client: Carlsbad Energy Center

Login Number: 160142 List Number: 1 Creator: Nguyen, Jocelyn

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 570-160142-1

List Source: Eurofins Calscience

Eurofins TestAmerica, Irvine 17461 Derian Avenue Suite 100 Irvine, CA 92614-5843				CI	hair	0	f C	Cust	tody	/ R	eco	ord								eurofins Environment Testing TestAmerica
phone 949.261.1022 fax 949.260.3299	Regu	atory Pro	gram:] DW [NPDE	S		RCRA		🗸 Ot	her:					Г	'estAn	nerica	Labo	oratories, Inc. d/b/a Eurofins TestAmerica
	Project Mana	iger: Anth	ony Kalis									_								COC No:
Client Contact	Email: anthon	y.kalis@nrg	.com			Site	e Co	ontact:	Antho	ny K	alis					11/8/2	023			1 of1 COCs
Carlsbad Energy Center	Tel/Fax: 760-	427-2382	Fax #: No	ne		Lat	o Co	ontact:	Rossi	na To	mov	а		Carrie	r: Eur	ofins				TALS Project #:
4950 Avenida Encinas	Ai	nalysis Tu	naround T	Time		П		Need a								1				Sampler: Anthony Kalis
Carlsbad, CA 92008		DAYS	VOF 🔽	RKING DAY	YS			E L		0										For Lab Use Only:
Phone: (760) 427-2382	TAT	f different from	n Below			11		nu												Walk-in Client:
FAX - None		2 we	eks			11		Ma	2		5									Lab Sampling:
Project Name: EWA Quarterly Sampling	I	1 we	ek			11		min	5 Day	1 - 1	Only)									
Site: Carlsbad Energy Center		2 day	/5			11	Î	Adi	D, 5	1 1	S									Job / SDG No.:
PO # : Use Credit Card		1 day	/			ĺŹ.	2	nia	Calc-BOD,		[변]									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample ()	Perform MS / MSD	200.7 - (MOD) California Admin Manual L; 245.1 - Hg	2540D - TSS; SM5210B_BOD Ca	2540C_Calcd-TDS	1664A - Oil & Grease (HEM	Field pH								Sample Specific Notes:
Sample Point # 1 - O&G Grab	11/8/2023	14:16	G	H20	8	N	Y	-	- 2	-	X-8	x								Composite the 8 Oil & Grease samples & perform duplicates
Sample Point # 2 - O&G Grab	11/8/2023	14:29	G	H2O	8	N	Y		2		X-8	×								Composite the 8 Oil & Grease samples & perform duplicates
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						\vdash	_			_	_	_	-					+ 1/ Tir		Sample Point # 2/ time
						\square	_					_	Field	d pH 1	6.5	8 pH/2	25.9°C	@ 14	16	7.38 pH/25.3°C @ 1429
												_				_	_	_	-	
Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=H	103; 5=NaOH	; 6= Other						1/4	1		1/3					1		-		
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? the Comments Section if the lab is to dispose of the sam		y EPA Was	ste Codes f	or the sa	ample i		San	nple D	isposa	I (A :	fee n	nay b	e ass	essed	if san	nples	are re	etaine	d lo	nger than 1 month)
Non-Hazard 🗌 Flammable 🗌 Skin Irritan	t 🗌 Poison B		Unkn	own			E	Retur	n to Clie	nt				isposal b	y Lab		A	rchive f	for	Months
Custody Seals Intact Ves No	Custody Seal	No.:						1		Coole	er Te	mp. (°C): C				orr'd:			_ Therm ID No.:
Relinquished by:	Company:	VICE		Date/Ti		-45	Rec	eived	oy.	1-	1	1	-		Com	pany:	+m	/		Date/Time: 11/8/23 1546
Relinquished by:	Company:			Date/Ti			Rec	eived	by:							pany:				Date/Time:
Relinquished by:	Company:			Date/Ti	ime:		Rec	ceived i	n Labo	rator	y by:				Com	pany:				Date/Time:

Form No. CA-C-WI-002, F	Rev. 4.25, dated 7/8/2019
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Carlsbad Energy Center pH METER CALIBRATION AND ANALYSIS Method SM 4500-H+B

Project: EWA Sampling

Meter: HACH HQ 40d

Date: 11/8/23

Start Time: 1343

pH Standards									
	MFR	Exp. Date	Lot No.	рН	Tempera	ature			
4 Buffer	HACH	3/27	A3084	4.01	22.2	Ο ⁰			
7 Buffer	HACH	2/25	A3055A	2.00	22.3	°C			
10 Buffer	HACH	3/24	A3063A	10.01	21.9	°C			
Slope =	-57,94 mv/pH	mv/pH re	ading / 59 mv/pH	= 98	% slo	be			
off set mv =	-1.7 mv								
Potab	le Water pH			7.91	22.3	⁰ C			

Sampling and Analysis

Sample Point	Time	рН	Temperature		
Sample Point #1	1416	6.58	25.9	°C	
Sample Point #2	1429	7,38	25.3	°C	

Standards Check After Analysis pH Standards

pH Buffer	Time	рН	Tempera	ture
Potable Water	1439	7,92	21.2	٥C
pH 7.0	1440	7.03	22.1	0 ⁰

Comments:

	End Time: 1441
Sampling and Analyses by:	Pech Lan
Approved by	DAIN

July 12, 2023

Mr. William Svec Compliance Project Manager Encina Wastewater Authority 6200 Avenida Encinas Carlsbad, California 92011

RE: CARLSBAD ENERGY CENTER PROJECT, SEMI ANNUAL COMPLIANCE STATUS REPORT – JANUARY THROUGH JUNE 2023

Dear Mr. Svec:

Carlsbad Energy Center LLC ("Project Owner") submits the attached semi-annual compliance status report covering the time period of January 2023 through June 2023. This report is submitted in compliance with Section B, Condition 2 of permit number 2405. The results for the self-monitoring sampling events for the First and Second Quarter reports for 2023 have already been submitted to the Encina Wastewater Authority but are included with this report as well.

If you have any questions or comments, please do not hesitate to contact Paul Mattesich at (760) 710-3945.

Sincerely,

Paul Mattesich Plant Manager Carlsbad Energy Center LLC

Attached: Report Certification 1SA2023 EWA Compliance Status Report for Permit 2405 Permit List for Carlsbad Energy Center Carlsbad Energy Center EWA Sampling 1st Quarter 2023 Report Carlsbad Energy Center EWA Sampling 2nd Quarter 2023 Report Excel files for 1Q2023 and 2Q2023 Sample Data Carlsbad Energy Center Logbook EWA Daily Flow 1SA 2023

Cc: File



ENCINA WASTEWATER AUTHORITY

6200 Avenida Encinas, Carlsbad, CA 92011-0195 Tel:(760)438-3941 Fax:(760)476-9852

REPORTING PERIOD:

JANUARY 1 – JUNE 30

COMPLIANCE STATUS REPORT (CSR)

SHITCHELT SOLESS

YES

NO

JULY 1 – DECEMBER 31

I. INDUSTRIAL USER INFORMATION:

Carlsbad Energy Center			
Industrial User Name 4950 Avenida Encinas	Carlsbad	CA	760-710-3945
Facility Address	City	Zip Code	(Area Code) Phone
Carlsbad Energy Center LLC			
Owner			
Paul Mattesich		Plant Manager	
IU Contact		Title	
City of Carlsbad	2405	4941	
Member Agency	Permit #	SIC Code	

II. ARE PROCESS OR OPERATIONAL CHANGES BEING PLANNED OR IMPLEMENTED?

If yes, explain: Plan Check Approval Ref# EC 21-0116: The approval allows us to modify the discharge piping to install a new sampling port. EWA visited site prior to installation of modification. Modified piping was installed on 6/22/22. Testing of sample port showed starting and stopping of pump allowed for air pocket. This issue is still being evaluated for a proper solution before modification is considered complete, but the project may be cancelled in the future if no cost effective solution is determined.

III. LIST OF ALL ACTIVE ENVIRONMENTAL PERMIT(S), PERMIT #(S), DATE ISSUED AND EXPIRATION DATE: See Attached

IV. FLOW SUMMARY

→ INCOMING WATER SOURCE		
AVERAGE DAILY FLOW RATE:	21,576	gpd
MAXIMUM DAILY FLOW RATE: _	358,344	gpd

→ PROCESS DISCHARGE TO SANITARY SEWER

AVERAGE DAILY FLOW RATE:	5,550	gpd
MAXIMUM DAILY FLOW RATE: _	116,344	gpd

CONSUMPTION HAS STAYED THE SAME INCREASED OR DECREASED BY MORE THAN 10% FROM THE LAST CSR. If change indicated, explain: Incoming consumption has decreased due to the the plant generating less megawatts over this semi-annual period than the previous. The maximum flow rates (incoming & discharge) increased due to draining and maintenance of the Raw & Demin Water Tanks through an approved NSWD.

V. THE FOLLOWING HAS BEEN INCLUDED:

NO

NA RESULTS OF SELF MONITORING PERFORMED ON 01/11/23, 04/12/23

VI. COMPLIANCE STATUS REPORT CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

PAUL MATTESICH

CARUSBAD CITY OR COUNTY

PRESIDENT/VP/GENERAL MGR/CEO (Print and sign name)

> SERVING THE CITY OF VISTA, CITY OF CARLSBAD, BUENA SANITATION DISTRICT, VALLECITOS WATER DISTRICT, LEUCADIA WASTEWATER DISTRICT AND CITY OF ENCINITAS Attachment A-1



ENCINA WASTEWATER AUTHORITY

6200 AVENIDA ENCINAS, CARLSBAD, CA 92011-0195 TEL:(760)438-3941 FAX:(760)476-9852

REPORT CERTIFICATION

INDUSTRIAL USER INFORMATION: I. Carlsbad Energy Center LLC Industrial User Name 4950 Avenida Encinas 92008 Carlsbad 760-710-3945 Facility Address Zip Code (Area Code) Phone City Carlsbad Energy Center LLC Owner Paul Mattesich Plant Manager IU Contact Title 2405 City of Carlsbad Member Agency Permit

II. CERTIFICATION STATEMENT:

All applications, reports or information submitted to the Encina Wastewater Authority must include the following certification statement and be signed as required by a responsible corporate officer, President, Vice President, Manager, CEO or an authorized representative.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

PAUL MATTESICH

7/12/23

CARUSRAD CITY OR COUNTY

PRESIDENT/VP/GENERAL MGR/CEO (Print and sign name)

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970

January 10, 2024

Mr. William Svec Compliance Project Manager Encina Wastewater Authority 6200 Avenida Encinas Carlsbad, California 92011

RE: CARLSBAD ENERGY CENTER PROJECT, SEMI ANNUAL COMPLIANCE STATUS REPORT – JULY THROUGH DECEMBER 2023

Dear Mr. Svec:

Carlsbad Energy Center LLC ("Project Owner") submits the attached semi-annual compliance status report covering the time period of July 2023 through December 2023. This report is submitted in compliance with Section B, Condition 2 of permit number 2405. The results for the self-monitoring sampling events for the Third and Fourth Quarter reports for 2023 have already been submitted to the Encina Wastewater Authority but are included with this report as well.

If you have any questions or comments, please do not hesitate to contact Paul Mattesich at (760) 710-3945.

Sincerely,

Paul Mattesich Plant Manager Carlsbad Energy Center LLC

Attached: Report Certification 2SA2023 EWA Compliance Status Report for Permit 2405 Permit List for Carlsbad Energy Center Carlsbad Energy Center EWA Sampling 3rd Quarter 2023 Report Carlsbad Energy Center EWA Sampling 4th Quarter 2023 Report Excel files for 3Q2023 and 4Q2023 Sample Data Carlsbad Energy Center Logbook EWA Daily Flow 2SA 2023

Cc: File



ENCINA WASTEWATER AUTHORITY

6200 AVENIDA ENCINAS, CARLSBAD, CA 92011-0195 TEL:(760)438-3941 FAX:(760)476-9852

REPORT CERTIFICATION

I. INDUSTRIAL USER INFORMATION: Carlsbad Energy Center LLC* Industrial User Name 4950 Avenida Encinas Carlsbad 92008 760-710-3945 Facility Address City Zip Code (Area Code) Phone Carlsbad Energy Center LLC Owner Paul Mattesich Plant Manager IU Contact Title City of Carlsbad 2405 Member Agency Permit

II. CERTIFICATION STATEMENT:

All applications, reports or information submitted to the Encina Wastewater Authority must include the following certification statement and be signed as required by a responsible corporate officer, President, Vice President, Manager, CEO or an authorized representative.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

IL MATTESICH

PRESIDENT/VP/GENERAL MGR/CEO (Print and sign name)



ENCINA WASTEWATER AUTHORITY

6200 AVENIDA ENCINAS, CARLSBAD, CA 92011-0195 TEL:(760)438-3941 FAX:(760)476-9852

REPORTING PERIOD:

JANUARY 1 - JUNE 30

COMPLIANCE STATUS REPORT (CSR)

JULY 1 - DECEMBER 31

YES

I. INDUSTRIAL USER INFORMATION:

Carlsbad Energy Center			
Industrial User Name 4950 Avenida Encinas	Carlsbad	CA	760-710-3945
Facility Address Carlsbad Energy Center LLC	City	Zip Code	(Area Code) Phone
Owner Paul Mattesich		Plant Manager	
IU Contact City of Carlsbad	2405	Title 4941	
Member Agency	Permit #	SIC Code	

II. ARE PROCESS OR OPERATIONAL CHANGES BEING PLANNED OR IMPLEMENTED?

If yes, explain:

III. LIST OF ALL ACTIVE ENVIRONMENTAL PERMIT(S), PERMIT #(S), DATE ISSUED AND EXPIRATION DATE: See Attached

IV. FLOW SUMMARY

→ INCOMING WATER SOURCE

→ PROCESS DISCHARGE TO SANITARY SEWER

AVERAGE DAILY FLOW RATE:	40,062	gpd
MAXIMUM DAILY FLOW RATE: _	263,151	gpd

AVERAGE DAILY FLOW RATE: 7761 gpd MAXIMUM DAILY FLOW RATE: 35,773 gpd

CONSUMPTION HAS STAYED THE SAME INCREASED OR DECREASED BY MORE THAN 10% FROM THE LAST CSR. If change indicated, explain: Incoming consumption has increased due to the the plant generating more megawatts over this semi-annual period than the previous. The first semi-annual period of 2023 had maintenance of the Raw & Demin water tanks, thus the maximum flow rates (incoming & discharge) decreased in the second semi-annual period.

V. THE FOLLOWING HAS BEEN INCLUDED:

NO

RESULTS OF SELF MONITORING PERFORMED ON 08/22/23, 11/08/23 NA

VI. **COMPLIANCE STATUS REPORT CERTIFICATION STATEMENT**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

o Cti		1 1
TAUL MATIESICH	1/	10
PRESIDENT/VP/GENERAL MGR/CEO		DAT

AILLSISAD CITY OR COUNTY

(Print and sign name)

SERVING THE CITY OF VISTA, CITY OF CARLSBAD, BUENA SANITATION DISTRICT, VALLECITOS WATER DISTRICT, LEÚCADIA WASTEWATÉR DISTRICT AND CITY OF ENCÍNITAS Attachment A-1

Attachment H TLSN-3: Transmission Line Activities

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970

March 1, 2024

Subject: CARLSBAD ENERGY CENTER COM-8 REPORT – TLSN-3: Transmission Line Activities

Through visual inspection, Carlsbad Energy Center has determined that all transmission equipment is in compliance with section 2492 of the Public Resources Code and Section 1250 of Title 14 of the California Code of Regulations.

Attachment I VIS-1: Surface Treatment Summary

		Carlsbad	Energy Center Project - Major Surface Tr	reatment			
				2023 Maintenance	Planned 2024 Maintenance		
Init	Equipment/System	Color/Finish	Current Condition	Activities	Activities		
	6 Selective Catalytic Reduction	Gray	Good	None	None Planned		
	6 Stack	Gray	Good	None	None Planned		
	6 Intercooler	Black	Good	None	None Planned		
	6 VBV Stack	Gray	Good	None	None Planned		
	Combustion Turbine						
	6 Enclosure	Gray	Good	None	None Planned		
	6 CT Air Inlet	Gray	Visible Rusting on West/East Sides	None	None Planned		
	6 PCM	Gray	Good	None	None Planned		
6/7	/7 PDC	Gray	Good	None	None Planned		
6,	/7 CEMS Shack	Gray	Good	None	None Planned		
	7 Selective Catalytic Reduction	Gray	Good	None	None Planned		
	7 Stack	Gray	Good	None	None Planned		
	7 Intercooler	Black	Good	None	None Planned		
	7 VBV Stack	Gray	Good	None	None Planned		
	Combustion Turbine 7 Enclosure	Gray	Good	None	None Planned		
	7 CT Air Inlet	Gray	Visible Rusting on West/East Sides	None	None Planned		
	7 PCM	Gray	Good	None	None Planned		
	-	Gray	Good	None	None Planned		
	8 Stack	Gray	Good	None	None Planned		
	8 Intercooler	Black	Good	None	None Planned		
	8 VBV Stack	Gray	Good	None	None Planned		

	Combustion Turbine				
8	3 Enclosure	Gray	Good	None	None Planned
8	3 CT Air Inlet	Gray	Visible Rusting on West/East Sides	None	None Planned
8	3 PCM	Gray	Good	None	None Planned
8/9	PDC	Gray	Good	None	None Planned
8/9	CEMS Shack	Gray	Good	None	None Planned
9	Selective Catalytic Reduction	Gray	Good	None	None Planned
9	Stack	Gray	Good	None	None Planned
9	Intercooler	Black	Good	None	None Planned
9	VBV Stack	Gray	Good	None	None Planned
	Combustion Turbine				
9) Enclosure	Gray	Good	None	None Planned
9	OCT Air Inlet	Gray	Visible Rusting on West/East Sides	None	None Planned
ç	PCM	Gray	Good	None	None Planned
10	Selective Catalytic Reduction	Gray	Good	None	None Planned
10) Stack	Gray	Good	None	None Planned
10) Intercooler	Black	Good	None	None Planned
10) VBV Stack	Gray	Good	None	None Planned
	Combustion Turbine				
10) Enclosure	Gray	Good	None	None Planned
) CT Air Inlet	Gray	Visible Rusting on West/East Sides	None	None Planned
) PCM	Gray	Good	None	None Planned
) CEMS Shack	Gray	Good	None	None Planned
10/BOP	PDC	Gray	Good	None	None Planned
BOP	Fuel Gas Compressor A	Gray	Good	None	None Planned
BOP	Fuel Gas Compressor B	Gray	Good	None	None Planned
BOP	Fuel Gas Compressor C	Gray	Good	None	None Planned

BOP	Fuel Gas Compressor D	Gray	Good	None	None Planned
BOP	Raw Water Tank	Gray	Good	None	None Planned
BOP	Demin Water Tank	Gray	Good	None	None Planned
BOP	Fire Pump Structure	Gray	Good	None	None Planned
Common	Administrative Building	Tate Olive	Good	None	None Planned
Common	Warehouse	Tate Olive	Good	None	None Planned
Common	Existing Control House	Galvanized Steel	Minor surface rust	None	None Planned
Common	Transmission Poles	Galvanized	Good	None	None Planned
	Transmission Fores	Galvanizeu	0000	None	None Flaimeu
	Transmission Conductor	Galvallized	6664		None Hanned
Common		Non-Reflective	Good	None	None Planned
	Transmission Conductor				

Attachment J VIS-2/VIS-3: Landscape Maintenance Summary

March 1, 2024

Subject: <u>CARLSBAD ENERGY CENTER COM-8 REPORT – VIS-2/VIS-3: Landscape Maintenance</u> <u>Summary</u>

Carlsbad Energy Center contracts with Land Care for routine landscape activities. The activities include weekly maintenance for weeding services and removal or pruning of any downed branches found on the site. Services that Land Care provided for 2023 are:

- Installed 16 replacement trees, California Pepper trees (chinus mole), March 2023
- Clearing of two felled trees (eucalyptus and myoporum)
- Pruning of multiple eucalyptus
- Clearing of multiple fallen eucalyptus branches north of the bioswale
- Re-staking of leaning trees
- Clearing vegetation in and around the bioswale
- Clearing vegetation for a path to access fence north of bioswale for repairs
- Various sprinkler valve and solenoid replacement
- Solar irrigation controller replacement

Attachment K WASTE-9: Waste Generation Report

Hazardous Waste 2022

NON-RCRA	codes	lbs	comments					
Oily debris	352	3375	from regular operations					
Oily water 90%oil	223	3360	from regular operations					
Used oil filters	352	1050	from regular operations					
Empty containers/debris, Corrshield	513	20	Empty container of Corrshield					
	TOTAL	7805						

RCRA	codes	lbs	comments
oil w/benzene	D018, 221	4440	from regular operations
oily debris w/benzene	D018, 181	100	from regular operations
filters w/benzene	D018, 352	400	from regular operations
Labpack	D001, 551	100	unused hand sanitizer
Waste paint related material	D001, 551	80	old paint waste and canisters
Waste oxidizing liquid, perasan	D002, 141	40	unused perasan for water treatment
Waste corrosive liquid, corrshield	D002, 141	8	used Corrshield canisters with residue
Spent dessicant	D002, 181	5	from regular operations
	TOTAL	5173	

Attachment L Compliance Matrix

Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
AQ	5			all times and, to the extent practicable, the project owner shall maintain and operate the equipment and any associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. [Rule 21 and 40 CFR §60.11]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	
AQ	6		Ν		The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	
AQ	7		N	equipment, with the exception of personal protective equipment requiring individual fitting and specialized training, for source testing and inspection upon request of the Air Pollution Control District. [Rule 19]	The project owner shall provide facilities, utilities, and safety equipment for source testing and inspections upon request of the District, ARB, and the Energy Commission.	N	as needed	N/A	Source Testing/Inspections	Ongoing	
AQ	11		Y	including requirements to offset, hold and retire sulfur dioxide (SO2) allowances. [40 CFR Part 73]	The project owner shall submit to the CPM and the District the combustion turbine generator (CTG) annual SO2 emission total and SO2 allowance information demonstrating compliance with all applicable provisions of 40 CFR 73 as part of the Quarterly Operation Reports (AQ- SC8).	Ζ	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	12		N		The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	N/A			Ongoing	
AQ	22	a		, , , , , , ,	The project owner shall submit the quarterly fuel sulfur content values in the in the Quarterly Operation Reports (AQ-SC8)	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	22	b	N		Make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	
AQ	23		N		None required.	Ν	N/A			Ongoing	
AQ	24			the average of three subtests shall be used. For purposes of determining compliance with emission limits based on a Continuous Emission Monitoring System (CEMS),	Source tests demonstrating compliance with this condition shall be provided to the CPM and are due within the timeframes specified in Conditions AQ-57 and AQ-58. CEMS data summaries shall be submitted to the CPM as part of the Quarterly Operation Reports (AQ-SC8).	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	25			For purposes of determining compliance with emission limits based on CEMS data, all CEMS calculations, averages, and aggregates shall be performed in accordance with the CEMS protocol approved in writing by the District. [Rules 69.3, 69.3.1, 20.3(d)(1) and 40 CFR Part 60 Subpart KKKK, 40 CFR Part 60 Appendix B and F, and 40 CFR Part 75]		Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	26		Y	For each emission limit expressed as pounds, pounds per hour, or parts per million based on a one-hour or less averaging period or compliance period, compliance shall be based on using data collected at least once every minute when compliance is based on CEMS data except as specified in the District approved CEMS Protocol. [Rules 69.3, 69.3.1, and 20.3(d)(1)]	CEMS data summaries shall be submitted to the CPM as part of the Quarterly Operation Reports (AQ-SC8).	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	27		Y	When a combustion turbine is combusting fuel (operating), the emission concentration of oxides of nitrogen (NOX), calculated as nitrogen dioxide (NO2), shall not exceed 2.5		Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	28		Y	monoxide (CO) shall not exceed 4.0 ppmvd corrected to 15 percent oxygen, averaged	The project owner shall provide CEMS emissions data to demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	

Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
AQ	29			When a combustion turbine is operating, the volatile organic compound (VOC) concentration, calculated as methane, measured in the exhaust stack, shall not exceed 2.0 ppmvd corrected to 15 percent oxygen, averaged over a one-clock-hour period, except during commissioning, startup, and shutdown periods for that turbine. For purposes of determining compliance based on the CEMS, the District approved VOC/CO surrogate relationship and the CO CEMS data averaged over a one-clock-hour period shall be used. The VOC/CO surrogate relationship shall be verified and/or modified, if necessary, based on source testing. [Rule 20.3(d)(1)]	The project owner shall provide the CEMS data, using the appropriate CO/VOC surrogate relationship, to demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	30			When a combustion turbine is operating, the ammonia concentration (ammonia slip), shall not exceed 5.0 ppmvd corrected to 15 percent oxygen and averaged over a one- clock-hour period, except during commissioning, startup, and shutdown periods for that turbine. [Rule 1200]	The project owner shall provide the estimated ammonia concentrations and ammonia emissions based on the annual source test data, the CEMS data and SCR ammonia flow data to demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	31			When a combustion turbine is operating, the emission concentration of NOX, calculated as nitrogen dioxide (NO2), shall not exceed 42 ppmvd averaged over each one-clock-hour period and corrected to 15 percent oxygen except for startup and shutdown periods for that turbine, as defined in Rule 69.3. [Rule 69.3]	The project owner shall provide CEMS emissions data to demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	32			When a combustion turbine is operating with post-combustion air pollution control equipment that controls oxides of nitrogen (NOX) emissions, the emission concentration of NOX, calculated as nitrogen dioxide (NO2), shall not exceed 13.6 ppmvd averaged over each one-clock-hour period and corrected to 15 percent oxygen, except for startup and shutdown periods for that turbine, as defined in Rule 69.3.1. This limit does not apply during any period in which the facility is subject to a variance from the emission limits contained in Rule 69.3.1. [Rule 69.3.1]	The project owner shall provide CEMS emissions data to demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	33			control equipment that controls oxides of nitrogen (NOx) emissions, the emission	The project owner shall provide CEMS emissions data to demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	34			For each rolling four-unit operating hour period, average emission concentration of oxides of nitrogen (NOx) for each turbine calculated as nitrogen dioxide (NO2) in parts per million by volume dry (ppmvd) corrected to 15 percent oxygen or, alternatively, as elected by the project owner, the average NOx emission rate in pounds per megawatthour (Ib/MWh) shall not exceed an average emission limit calculated in accordance with 40 CFR Section 60.4380(b)(3). The emission concentration and emission rate average emission concentration limit and emission rate limit shall be based on an average of hourly emission limits over the four-unit operating hour period including the operating-hour and three unit operating-hours immediately preceding. For any unit operating hour where multiple emission standards would apply based on load of the turbine, the applicable standard shall be the higher of the two limits. The hourly emission concentration limit and emission rate limit shall be as follows based on the load of the turbine over the four unit operating hour period: Case Emission Limit, ppmvd at 15 percent O2 Emission Limit, Ib/MWh i. All four hrs at or above 75% Load 96 4.7 iii. Combination of hrs (a x 15+b x 96)/4 (a x 0.43+b x 4.7)/4 Where: a = the number of unit operating hrs in four hour period with all operation above 75% load and b = 4-a. The average shall exclude all clock hours occurring before the Initial Emission Source Test but shall include emissions during all other times that the equipment is operating including, but not limited to, emissions during startup and shutdown periods. For each six-calendar-month period, emissions during startup and shutdown periods. For each six-calendar-month period, emissions during startup and shutdown periods. For each six-calendar-month period, emissions during startup and shutdown periods. For each six-calendar-month period, emissions during periot (2000 PC + 2000 PC +	The project owner shall provide CEMS emissions data to demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	

-					•						
Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
AQ	35		Y	The emissions of particulate matter less than or equal to ten microns in diameter (PM10) from the exhaust stacks of the combustion turbine shall not exceed 5.0 pounds per hour for each combustion turbine. [Rule 20.3(d)(1)(2)]	Source tests demonstrating compliance with this condition shall be provided to the CPM and are due within the timeframes specified in Conditions AQ-57 and AQ-58.	Ν	45	after	Completion of RATA/Source Tests	Ongoing	
AQ	36			The emissions of particulate matter less than or equal to ten microns in diameter (PM10) from the exhaust stacks of the combustion turbines shall not exceed 3.5 pounds per hour per turbine, averaged over all six combustion turbines, calculated as the arithmetic average of the most recent source test for each turbine. [Rule $20.3(d)(1),(2)$]	Source tests demonstrating compliance with this condition shall be provided to the CPM and are due within the timeframes specified in Conditions AQ-57 and AQ-58.	Ν	45	after	Completion of RATA/Source Tests	Ongoing	
AQ	37			The discharge of particulate matter from the exhaust stack of each combustion turbine shall not exceed 0.10 grains per dry standard cubic foot (0.23 grams/dscm) corrected to 12 percent carbon dioxide. The District may require periodic testing to verify compliance with this standard. [Rule 53]	Source tests demonstrating compliance with this condition shall be provided to the CPM and are due within the timeframes specified in Conditions AQ-57 and AQ-58.	Ν	45	after	Completion of RATA/Source Tests	Ongoing	
AQ	38		Ν	Visible emissions from the lube oil vents and the exhaust stack of each combustion turbine shall not exceed 20 percent opacity for more than three minutes in any period of 60 consecutive minutes. [Rule 50]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	39			Mass emissions from each combustion turbine of oxides of nitrogen (NOx), calculated as NO2; carbon monoxide (CO); and volatile organic compounds (VOC), calculated as methane, shall not exceed the following limits, except during commissioning, startup and shutdown periods for that turbine. A one-clock-hour averaging period for these limits shall apply to CEMS data. [Rule 20.3(d)(2)] Pollutant Emission Limit, lb/hr a. NOx 9.1 b. CO 8.8 c. VOC 2.5	The project owner shall submit to the CPM operating data demonstrating compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	40			Excluding any minutes that are coincident with a shutdown period, cumulative mass emissions of oxides of nitrogen (NOx), calculated as NO2; carbon monoxide (CO); and volatile organic compounds (VOC), calculated as methane, shall not exceed the following limits during any startup period, except during that turbine's commissioning period. [Rule 20.3(d)(1)]. Pollutant Emission Limit,Ib a. NOx 14.7 b. CO 7.4 c. VOC 2.0 [NOx and VOC: Rule 20.3(d)(1); CO: Rule 20.3(d)(2)]	The project owner shall submit to the CPM operating data demonstrating compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	N	N/A	Quarterly	Quarterly Operation Reports		Petition to Amend submitted to CEC to update CO limit startup limit to 17.3 lb/hr. PTA approval Processing expected by Q321.
AQ	41			Cumulative mass emissions from each combustion turbine of oxides of nitrogen (NOx), calculated as NO2; carbon monoxide (CO); and volatile organic compounds (VOC), calculated as methane, shall not exceed the following limits during each of that turbine's shutdown periods, except during that turbine's commissioning period. [Rule 20.3(d)(1)] Pollutant Emission Limit,Ib a. NO 0.6 b. CO 3.4 c. VOC 2.4	The project owner shall provide CEMS emissions data to demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	Ν	N/A	Quarterly	Quarterly Operation Reports		Petition to Amend submitted to CEC to update shutdown conditions (AQ- 14. AQ-41 and other COCs with shutdown associated language). PTA approval Processing expected by Q321.
AQ	42			Emissions of oxides of nitrogen (NOx), calculated as nitrogen dioxide (NO2), from each combustion turbine shall not exceed 90 pounds per hour measured over each one-clock-hour period. In addition, the emission concentration of NOx, calculated as NO2, from each turbine shall not exceed 100 parts per million by volume on a dry basis (ppmvd) averaged over each one-clock-hour period and corrected to 15 percent oxygen. These emission limits shall apply during all times a turbine is operating, including, but not limited to, emissions during commissioning, startup and shutdown for that turbine. [Rule 20.3(d)(2)]	The project owner shall provide CEMS emissions data to demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	N	N/A	Quarterly	Quarterly Operation Reports		
AQ	43			The carbon monoxide (CO) emissions from each combustion turbine shall not exceed 248 pounds per hour measured over each one-clock-hour period. In addition, the emission concentration of CO from each turbine shall not exceed 400 parts per million by volume on a dry basis (ppmvd) averaged over each one-clock-hour period and corrected to 15 percent oxygen. This emission limit shall apply during all times that a turbine is operating, including, but not limited to emissions during commissioning, startup and shutdown periods. [Rule 20.3(d)(2)(i)]	The project owner shall provide CEMS emissions data to demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	

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Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
AQ	44					Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
<u>AQ</u>	45				The project owner shall submit to the CPM and District the facility annual operating and emissions data demonstrating compliance with this condition as part of the fourth quarter's Quarterly Operation Reports (AQ- SC8).	Ν	N/A	4th Quarter	Quarterly Operation Reports	Ongoing	
<u>AQ</u>	46		Y	NOx calculated as nitrogen dioxide and shall not exceed 4.73 tons per year of PM10.	The project owner shall provide emissions summary data in compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8). The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
<u>AQ</u>	47			Total emissions from the equipment permitted under APCD2003-PTO-001267, APCD2003-PTO-000791, APCD2003-PTO-000792, APCD2003-PTO-000793, APCD2003-PTO-001770 and APCD2003-PTO-005238 shall not exceed any of the following mass emission limits according to the schedule based on the number of turbines that have undergone their initial startup as described in the following table:	This condition requires the existing Encina boilers and turbine to cease operations once the amended CECP is operational. The project owner shall provide emissions summary data in compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8). The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	

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Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
AQ	48		Y	For each calendar month and each rolling 12-calendar-month period, the project owner shall maintain records, as applicable, on a calendar monthly basis, of mass emissions during each calendar month and rolling 12-calendar-month period of NOx (calculated as NO2), CO, VOCs (calculated as methane), PM10, and SOx (calculated as SO2), in tons, from each emission unit located at this stationary source, except for emissions or emission units excluded from the calculation of aggregate potential to emit as specified in Rule 20.1 (d)(1). These records shall be made available for inspection within 15 calendar days after the end of each calendar month. [Rules 20.3(d)(3), 20.3(d)(8) and 21]	The project owner shall provide emissions summary data in compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8). The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	49			For each combustion turbine, the number of annual operating hours in each calendar year shall not exceed 2,700. For the purposes of this condition, the number of operating hours shall be calculated as the total number of unit operating minutes divided by 60 rounded to the nearest hundredth of an hour. [Rules 1200, 20.3(d)(2) and 21]	The project owner shall submit facility annual operating data demonstrating compliance with this condition as part of the fourth quarter's Quarterly Operation Reports (AQ-SC8).	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	50		Y	For each combustion turbine, the number of startup periods occurring in each	The project owner shall submit facility annual operating data demonstrating compliance with this condition as part of the fourth quarter's Quarterly Operation Reports (AQ-SC8).	N	N/A	4th Quarter	Quarterly Operation Reports	Ongoing	
AQ	51	```	Y	For each combustion turbine, the number of startup periods occurring during its commissioning period shall not exceed 350. [Rules 1200, 20.3(d)(2) and 21]	The project owner shall submit facility annual operating data demonstrating compliance with this condition as part of the fourth guarter's Quarterly Operation Reports (AQ-SC8).	N	N/A	4th Quarter	Quarterly Operation Reports	Ongoing	
AQ	53		N	When a combustion turbine is operating, ammonia shall be injected at all times that the associated selective catalytic reduction (SCR) system outlet temperature is 540 degrees Fahrenheit or greater. [Rule 20.3 (d)(1)]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	55		Ν	Except during periods when the ammonia injection system is being tuned or one or more ammonia injection systems is in manual control for compliance with applicable permit conditions, the automatic ammonia injection system serving the SCR system shall be in operation in accordance with manufacturer's specifications at all times when ammonia is being injected into the SCR system. Manufacturer specifications shall be maintained on site and made available to District personnel upon request. [Rule 20.3(d)(1)]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	56	а	N	The concentration of ammonia solution used in the ammonia injection system shall be less than 20 percent ammonia by weight. Records of ammonia solution concentration shall be maintained on site and made available to District personnel upon request. [Rule 14, 21]	The project owner shall maintain on site and provide on request of the CPM or District the ammonia delivery records that demonstrate compliance with this condition.	N	as needed	N/A	Inspections	Ongoing	
AQ	56	b	Y		Testing witnessed by the District, a proposed test protocol shall be submitted to the District for written approval at least 60 days prior to source testing.	N	60	prior to	Source Test	Ongoing	
AQ	56	С	Y		Additionally, the District shall be notified a minimum of 30 days prior to the test so that observers may be present unless otherwise authorized in writing by the District. [Rules 20.3(d)(1) and 1200 and 40 CFR Part60 Subpart KKKK and 40 CFR.	N	30	prior to	Source Test	Ongoing	
AQ	57	a	Y	All source test or other tests required by this permit shall be performed by the District or an independent contractor approved by the District. Unless otherwise specified in this permit or authorized in writing by the District, if testing will be performed by an independent contractor and witnessed by the District, a proposed test protocol shall be submitted to the District for written approval at least 60 days prior to source testing. Additionally, the District shall be notified a minimum of 30 days prior to the test so that observers may be present unless otherwise authorized in writing by the District. [Rules 20.3(d)(1) and 1200 and 40 CFR Part60 Subpart KKKK and 40 CFR §60.8]	The project owner shall submit to the CPM for review and the District for approval the initial source test protocol at least 60 days prior to the initial source test.	N	60	prior to	Initial Source Test	Ongoing	
AQ	57	b	Y		The project owner shall notify the CPM and District no later than 30 days prior to the proposed source test date and time.	N	30	prior to	Source Test	Ongoing	
AQ	58		Y	Unless otherwise specified in this permit or authorized in writing by the District, within 45 days after completion of a source test or Relative Accuracy Test Audit (RATA) performed by an independent contractor, a final test report shall be submitted to the District for review and approval. [Rules 20.3(d)(1) and 1200 and 40 CFR Part 60 Subpart KKKK, 40 CFR §60.8, and 40 CFR Part 75]	The project owner will submit all RATA or source test reports to the CPM for review and the District for approval within 45 days of the completion of those tests.	N	45	after	completion of RATA/Source Tests	Ongoing	
AQ	59		Y	All testing conducted to measure concentrations or emissions of Volatile Organic Compounds (VOCs) shall include measurement of formaldehyde and the result shall be added to the result determined for other VOC concentrations or emissions, as applicable. Measurement of VOC emissions shall be conducted in accordance with EPA Method 18, or alternative methods approved by the District and EPA. Measurement of emissions of formaldehyde shall be conducted in accordance with EPA Method 316 or 323, or an alternative method approved by the District and EPA.	The project owner shall submit to the CPM for review and the District for approval the initial source test protocol and source test report within the timeframes specified in Conditions AQ-57 and AQ-58.	N	60	prior to	Initial Source Test		

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Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
AQ	62			be periodically conducted on each combustion turbine to demonstrate compliance with	The project owner shall submit to the CPM for review and the District for approval the periodic RATA and source test protocols, and RATA source test reports within the timeframes specified in Conditions AQ-57 and AQ- 58.	Ν	45	after	completion of RATA/Source Tests	Ongoing	
AQ	63				The results and field data collected during source tests required by this condition shall be submitted to the CPM for review and the District for approval as required by Condition AQ-58.	Ν	45	after	completion of RATA/Source Tests	Ongoing	
AQ	65			The District may require one or more of the following compounds, or additional compounds to be quantified through source testing periodically to ensure compliance with Rule 1200 and other conditions of this permit and to quantify toxic emissions: a. Acetaldehyde b. Acrolein c. Benzene d. Formaldehyde e. Toluene f. Xylenes If the District requires the project owner to perform this source testing, the District shall request the testing in writing a reasonable period of time prior to the testing date. [Rule 1200 California H&S Code §41510]	The results and field data collected during source tests required by the District under this condition shall be submitted to the CPM for review and the District for approval within 60 days of testing.	Ν	60	after	Source Testing	Ongoing	
AQ	66			The higher heating value of the combustion turbine fuel shall be measured by ASTM D1826–94, Standard Test Method for Calorific Value of Gases in Natural Gas Range by Continuous Recording Calorimeter or ASTM D1945–96, Standard Method for Analysis of Natural Gas by Gas Chromatography or an alternative test method approved by the District and EPA. [Rules 69.3, 69.3.1, and 20.3(d)(1) and 40 CFR Part 60 Subpart KKKK, and 40 CFR Part 75]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	
AQ	67		Ν	The sulfur content of the combustion turbine fuel shall be sampled not less than once each calendar quarter in accordance with a protocol approved by the District, which shall be submitted to the District for approval not later than 90 days before the earliest initial startup dates for any of the combustion turbines and measured with ASTM D1072–90 (Reapproved 1994), Standard Test Method for Total Sulfur in Fuel Gases; ASTM D3246–05, Standard Test Method for Sulfur in Petroleum Gas by Oxidative Microcoulometry; ASTM D4468–85 (Reapproved 2000), Standard Test Method for Total Sulfur in Gaseous Fuels by Hydrogenolysis and Rateometric Colorimetry; ASTM D6228–98 (Reapproved 2003), Standard Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Flame Photometric Detection; or ASTM D6667–04, Standard Test Method for Determination of Total Volatile Sulfur in Gaseous Hydrocarbons and Liquefied Petroleum Gases by Ultraviolet Fluorescence or an alternative test method approved by the District and EPA. [Rule 20.3 (d)(1), Rule 21, and 40 CFR Part 75]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	90	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	68			Part 60]	The project owner shall maintain a copy of the CEMS protocol required by AQ-70 on site and provide it, other CEMS data, and the CEMS for inspection on request by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	

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AQ	69				The project owner shall submit to the CPM for review and the District for approval a CEMS protocol, as required by AQ-70, which includes description of the methods of compliance with the requirements of this condition.	N	90	prior to	Initial Startup	Ongoing	
AQ	69		N		The project owner shall make the site available for inspection of records and equipment by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	72			A monitoring plan in conformance with 40 CFR 75.53 shall be submitted to U.S. EPA Region 9 and the District at least 45 calendar days prior to the Relative Accuracy Test Audit (RATA), as required in 40 CFR 75.62. [40 CFR Part 75]	The project owner shall submit to the CPM for review and the District and	Ν	45	prior to	RATA/Source Tests	Ongoing	
AQ	73			The oxides of nitrogen (NOx) and oxygen (O2) components of the CEMS shall be certified and maintained in accordance with applicable Federal Regulations including the requirements of sections 75.10 and 75.12 of title 40, Code of Federal Regulations Part 75 (40 CFR 75), the performance specifications of Appendix A of 40 CFR 75, the Quality Assurance procedures of Appendix B of 40 CFR 75 and the CEMS protocol approved by the District. The carbon monoxide (CO) components of the CEMS shall be certified and maintained in accordance with 40 CFR 60, Appendices B and F, unless otherwise specified in this permit, and the CEMS protocol approved by the District. [Rules 69.3, 69.3.1, and 20.3(d)(1) and 40 CFR Part 60 Subpart KKKK, and 40 CFR Part 75]		N	90	prior to	Initial Startup	Ongoing	
AQ	73		N		The project owner shall make the site available for inspection of records and equipment by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	74			personnel upon request. [Rules 69.3, 69.3.1, and 20.3(d)(1) and 40 CFR Part 60 Subpart KKKK, and 40 CFR Part 75]	The project owner shall make the site available for inspection of records and equipment by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	76			Any violation of any emission standard as indicated by the CEMS shall be reported to the District's compliance division within 96 hours after such occurrence. [Rule 19.2	The project owner shall notify the District regarding any emission standard violation as required in this condition and	N	96 hours	after	Violation of Emission Standard		
AQ	76		Y		shall document all such occurrences in each Quarterly Operation Report (AQ-SC8).	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	77				The project owner shall submit to the District the CEMS reports as required in this condition and shall make the site available for inspection of records and equipment by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	

Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
AQ	78				The project owner shall submit to the CPM for review and the District for approval any revision to the CEMS/DAHS or ammonia flow control software, as required by this condition, to be approved in advance at least 30 days before any planned changes are made.	Ν	30	prior to	Revisions to Monitoring Software	Ongoing	
AQ	78		Ν		The project owner shall notify the District regarding any unplanned emergency changes to these software systems within 96 hours and	Ν	96 hours	after	Emergency Changes to Monitoring Software	Ongoing	
AQ	78		Y		shall document all such occurrences in each Quarterly Operation Report (AQ-SC8).	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	80				The project owner shall submit to the CPM the natural gas usage data from the fuel flow meters as part of the Quarterly Operation Report (AQ-SC8).	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	83				The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	87		Y		None Required	Ν				Ongoing	
AQ	88	a		Each semiannual report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Each such semiannual compliance report shall be postmarked or delivered no later than January 30 or July 30, whichever date is the first date following the end of the semiannual reporting period. [40 CFR Part 60 Subpart KKKK and Rule 21]	The project owner shall provide the District's Compliance Division the semi-annual reports required in this condition within the due dates specified in this condition,	N	N/A	Semi-Annual	Semi-Annual Report	Ongoing	
AQ	88	b	Y		shall provide summaries of these semi-annual reports in the Quarterly Operation Reports (AQ-SC8) following each semi-annual report, and shall provide full copies of these reports to the CPM upon request.	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	89		Ν	All semiannual compliance reports shall be submitted to the District Compliance Division [40 CFR §60.7]	None required.	Ν				Ongoing	
AQ	93			This EPA certified engine shall be installed, configured, operated and maintained	The project owner shall make the site available for inspection of equipment and records by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	94		Ν		The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	
AQ	95			Engine operation for maintenance and testing purposes shall not exceed 35 hours per calendar year unless otherwise required by the National Fire Protection Association (NFPA) Section 25. [Rules 69.4.1, 40 CFR Part 60 Subpart IIII, and 17 CCR §93115]	The project owner shall submit to the CPM the fire pump engine operating data demonstrating compliance with this condition as part of the Quarterly Operation Report (AQ-SC8).	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	96		Ν	§93115]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	97		Ν		The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	

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AQ 10 9 N Image: Control of the contro of the control of the control of the cont	AQ	99			applicable: A. Whenever there is any school sponsored activity, if engine is located on school grounds or B. Between 7:30 and 3:30 PM on days when school is in session, if the engine is located within 500 feet of, but not on school grounds. This condition shall not apply to an engine located at or near any school grounds that		Ν		N/A	Inspections	Ongoing	
AQ 101 N The owner or operator shall conduct periodic maintenance of this argue and dorm to control equipment. If any, as resonanted by the engine and control equipment the general addrom to control equipment. If any, as resonanted by the engine and control equipment the start address the task valiable for inspection of records N A Inspectional Origoing AQ 102 N The owner or operator shall conduct periodic maintenance as provided maintenance and catter biologic constraint and maintenance as provided maintenance and catter biologic constraint and maintenance as provided maintenance and catter biologic constraint and maintenance and catter biologic constraint and maintenance and catter biologic maintenance and catter biologiconten maintenance and catter biologiconten maintenance and catter	AQ	100	а		 good working order, and used for recording engine operating hours. If a meter is replaced, the Air Pollution Control District's Compliance Division shall be notified in writing within ten calendar days. The written notification shall include the following information: A. Old meter's hour reading. B. Replacement meter's manufacturer name, model, and serial number if available and current hour reading on replacement meter. C. Copy of receipt of new meter or of installation work order. A copy of the meter replacement notification shall be maintained on site and made available to the Air Pollution Control District upon request. [Rules 69.4.1, 17 CCR 		Ν	10	after	Meter Replacement	Ongoing	
AQ 101 N The owner operator shall consider privide maintenance of this expine and using the engine and using the engine servicing company's maintenance of the service state as waitable for impactor of models N as NA Impactions Origoing AQ 102 N Model and the engine and using the engine servicing company's maintenance as provide the project owner shall make the set as waitable for impactor of models N as NA Impactions Origoing AQ 102 N Model and the engine set and the service approximation of the service approximation of the service approximation. N as needed NA Impactions Origoing AQ 102 N Model and the engine set and maintain access approximation. The project owner shall make the set available for impactor of records of the approximation. N as needed NA Impactors Origoing AQ 103 N the owner operator shall maintain accountenation for the set as valiable for impactors of the approximation. N as needed NA Impactors Origoing AQ 104 N the owner operator shall maintain accountenatore approximation and maintain accountenatore approxim	AQ	100	b	Ν			Ν		N/A	Inspections	Ongoing	
AQ 102 N The owner or operator shill keep manuals of records a dowled appropriate with the same period of time as the engine to which the records apply is located on site. [Rule 69.4.1 and 40 CFR Part 60 Subpart III] N as needed NA Inspections Ongoing AQ 103 N The owner or operator of this engine shall maintain records of all maintanance conducted on the engine, including a description of the maintanance want date the site available for inspection of records program and the fact of the Datrici, ARB, and the Energy Commission. N as needed N/A Inspections Ongoing AQ 103 N The owner or operator of this engine shall maintain records of all maintanance conducted on the engine, including a description of the maintanance and date the program and date the program and the Energy Commission. N as needed N/A Inspections Ongoing AQ 104 N The owner or operator of this engine equipment shall maintain a monthy operating to the Datrici, ARB, and the Energy Commission. N as needed N/A Inspections Ongoing AQ 105 Y The owner or operator of this engine equipment shall maintain a monthy operating to the operating odd and ennostrating compliance with this condition as part of the entry commission. N as needed N/A Inspections Ongoing Ongoing	AQ	101			The owner or operator shall conduct periodic maintenance of this engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedure. The periodic maintenance shall be conducted at least once each calendar	The project owner shall make the site available for inspection of records	Ν	as	N/A	Inspections	Ongoing	
AQ 104 N The owner or operator Med. [Rule 69.4.1, 47 CCR §93115, and 40 CFR Part 60 Subpart [III] by representatives of the District, ARB, and the Energy Commission. needed	AQ	102			The owner or operator shall keep manuals of recommended maintenance as provided by the engine and control equipment manufacturers for at least the same period of time as the engine to which the records apply is located on site. [Rule 69.4.1 and 40		Ν		N/A	Inspections	Ongoing	
Max Image: Interpresentatives Image: Interpresentatives <thimage: interpresentatives<="" td="" th<=""><td>AQ</td><td>103</td><td></td><td></td><td>conducted on the engine, including a description of the maintenance and date the</td><td></td><td>Ν</td><td></td><td>N/A</td><td>Inspections</td><td>Ongoing</td><td></td></thimage:>	AQ	103			conducted on the engine, including a description of the maintenance and date the		Ν		N/A	Inspections	Ongoing	
AQ-SC 6 b Y The project owner shall submit to the CPM for review and approval any project air permit modification to any permit proposed by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, and any revised permit so the CPM within fixe working days of its permit to the CPM within fixe working days or its permit to the CPM within fixe working days or its permit to the CPM within fixe working days or its permit to the CPM within fixe working days or its permit to the CPM within fixe working days or its permit modifications from an agency. N 5 prior to Air Permit Modification	AQ	104					Ν		N/A	Inspections	Ongoing	
AQ-SC6YYThe project owner shall submit all modified air permits to the CPM withinN15afterAir PermitOngoing	AQ	105			containing, at a minimum, the following: A. Dates and times of engine operation, whether the operation was for compliance with the testing requirements of National Fire Protection Association (NFPA) 25 or emergency use, and the nature of the emergency, if known; B. Hours of operation for all uses other than those specified above and identification of the nature of that use.	operating data demonstrating compliance with this condition as part of the		N/A	Quarterly		Ongoing	
	AQ-SC	6	а		permit modification proposed by the project owner. The project owner shall submit to the CPM any modification to any permit proposed by the District or U.S. EPA, and any	the CPM within five working days of its submittal either by: 1) the project owner to an agency, or 2) receipt of proposed modifications from an	Ν	5	prior to		Ongoing	
	AQ-SC	6	b	Y			Ν	15	after	Air Permit Modification	Ongoing	

Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
AQ-SC	8			The project owner shall submit to the CPM Quarterly Operation Reports, following the end of each calendar quarter that include operational and emissions information as necessary to demonstrate compliance with the conditions of certification herein. The Quarterly Operation Report will specifically state that the facility meets all applicable conditions of certification or note or highlight all incidences of noncompliance.	The project owner shall submit the Quarterly Operation Reports to the CPM and District, if requested by the District, no later than 30 days following the end of each calendar quarter.	Ν	30	following end of quarter	Quarterly Operation Reports	Ongoing	
<u>AQ-SC</u>	9			emergency.	The project owner shall submit the Quarterly Operation Reports to the CPM and District, if requested by the District, no later than 30 days following the end of each calendar quarter that demonstrate the operating hours and provide documentation regarding declared emergency events when the gas turbines are operated between the hours of 2400 and 0600, military time.	Ν	30	following end of quarter	Quarterly Operation Reports	Ongoing	
BIO	1	b	Y		If a Designated Biologist needs to be replaced, the specified information of the proposed replacement must be submitted to the CPM at least ten working days prior to the termination or release of the preceding designated biologist. In an emergency, the project owner shall immediately notify the CPM to discuss the qualifications and approval of a short-term replacement while a permanent Designated Biologist is proposed to the CPM for consideration.	Ν	10	prior to	Termination of DB, CRS, PRS	Ongoing	
BIO	2	b		 5. inspect active construction areas where animals may have become trapped prior to construction commencing each day. At the end of the day, inspect for the installation of structures that prevent entrapment or allow escape during periods of construction inactivity. Periodically inspect areas with high vehicle activity (i.e., parking lots) for animals in harm's way; 6. notify the project owner and the CPM of any non-compliance with any Biological Resources Condition of Certification; 7. respond directly to inquiries of the CPM regarding biological resource issues; 8. maintain written records of these records shall be submitted in the monthly compliance report and the annual report; and 9. train the biological monitors as appropriate, and ensure their familiarity with the BRMIMP, Worker Environmental Awareness Program (WEAP) training, and all permits. 	During project operation, the Designated Biologist shall submit record summaries in the annual compliance report unless his/her duties are ceased as approved by the CPM.	Ν	N/A	Annual	Annual Compliance Report	Ongoing	
BIO	5	d	N		The signed training acknowledgement forms from construction shall be kept on file by the project owner for a period of at least 6 months after the start of commercial operation. During project operation, signed statements for active project operational personnel shall be kept on file for 6 months following the termination of an individual's employment.	Ν	6 months	after	Commercial Operation	Ongoing	
BIO	5	e	Ν		During project operation, signed statements for active project operational personnel shall be kept on file for six months following the termination of an individual's employment.	Ν	>180	N/A	Termination of Individual's Employment	Ongoing	
BIO	6	b	Y		If there are any permits that have not yet been received when the BRMIMP is first submitted, these permits shall be submitted to the CPM, the CDFW, and USFWS within five days of their receipt, and	Ν	5		Receipt of permits for BRMIMP		
BIO	6	с	Y		the BRMIMP shall be revised or supplemented to reflect the permit condition within ten days of their receipt by the project owner.	Ν	10	after	Receipt of permits for BRMIMP	Ongoing	
BIO	6	e	Y		The project owner shall notify the CPM no less than five working days before implementing any modifications to the approved BRMIMP to obtain CPM approval. Any changes to the approved BRMIMP must also be approved by the CPM in consultation with CDFW, the USFWS, and appropriate agencies to ensure no conflicts exist.	Ν	5	prior to	Modifications to BRMIMP	Ongoing	

Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
BIO	6	f	Y	 9. all locations on a map, at an approved scale, of sensitive biological resource areas subject to disturbance and areas requiring temporary protection and avoidance during construction; 10. aerial photographs, at an approved scale, of all areas to be disturbed during project construction activities — one set prior to any site (and related facilities) mobilization disturbance and one set subsequent to completion of project construction. Include planned timing of aerial photography and a description of why times were chosen; 11. duration for each type of monitoring and a description of monitoring methodologies and frequency; 12. performance standards to be used to help decide if/when proposed mitigation is or is not successful; 13. all performance standards and remedial measures to be implemented if performance standards are not met; 14. a preliminary discussion of biological resources related facility closure measures; 15. restoration and revegetation plan; and 16. a process for proposing plan modifications to the CPM and appropriate agencies for review and approval. 	construction activities that were monitored, species observed).	N	N/A	Annual	Annual Compliance Report	Ongoing	
COMPLIA NCE	1		N	Unrestricted Access. The project owner shall take all steps necessary to ensure that the CPM, responsible Energy Commission staff, and delegated agencies or consultants have unrestricted access to the facility site, related facilities, project-related staff, and the records maintained to facilitate audits, surveys, inspections, and general or closure-related site visits. Although the CPM shall normally schedule site visits on dates and times agreeable to the project owner, the CPM reserves the right to make unannounced visits at any time, whether such visits are by the CPM in person or through representatives from Energy Commission staff, delegated agencies, or consultants.		N	as needed	N/A	Inspections	Ongoing	
COMPLIA NCE	2		N	 Compliance Record. The project owner shall maintain electronic copies of all project files and submittals on-site, or at an alternative site approved by the CPM, for the operational life and closure of the project. The files shall also contain at least one hard copy of: 1. the facility's Application(s) for Certification; 2. all amendment petitions and Energy Commission orders; 3. all site-related environmental impact and survey documentation; 4. all appraisals, assessments, and studies for the project; 5. all finalized original and amended structural plans and "as-built" drawings for the entire project; 6. all citations, warnings, violations, or corrective actions applicable to the project; and 7. the most current versions of any plans, manuals and training documentation required by the conditions of certification or applicable LORS. Energy Commission staff and delegate agencies shall, upon request to the project owner, be given unrestricted access to the files maintained pursuant to this condition. 		N	as needed	N/A	Inspections	Ongoing	

Technical Area	COC Number	Subtask	Deliverable Req.	Description Verificatio	on/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
OMPLIA NCE	3			Compliance Verification Submittals. Verification lead times associated with the start of construction or closure may require the project owner to file submittals during the AFC process, particularly if construction is planned to commence shortly after certification. The verification procedures, unlike the conditions, may be modified as necessary by the CPM. A cover letter from the project owner or an authorized agent is required for all compliance submittals and correspondence pertaining to compliance matters. The cover letter subject line shall identify the project by AFC number, cite the appropriate condition of certification number(s), and give a brief description of the subject of the submittal. When submitting supplementary or corrected information, the project owner shall reference the date of the previous submittal and the condition(s) of certification applicable. All reports and plans required by the project's conditions of certification shall be submitted in a searchable electronic format (.pdf, MS Word, or Excel, etc.) and include standard formatting elements such as a table of contents, identifying by title and page number each section, table, graphic, exhibit, or addendum. All report and/or plan graphics and maps shall be adequately scaled and shall include a key with descriptive labels, directional headings, a bar scale, and the most recent revision date. The project owner is responsible for the content and delivery of all verification submittals to the CPM, whether the actions required by the verification were satisfied by the project owner or an agent of the project wore. All submittals shall be accompanied by an electronic copy on an electronic storage medium, or by e-mail, as agreed upon by the CPM. If hard-copy submittals are required, please address as follows: Compliance Project Manager Carlsbad Energy Center Project (07-AFC-6C) California Energy Commission 1516 Ninth Street (MS-2000) Sacramento, CA 95814		N	N/A	N/A	General compliance	Ongoing	
OMPLIA	5			Compliance Matrix. The project owner shall submit a compliance matrix to the CPM A compliance matrix shall with each MCR and ACR. The compliance matrix provides the CPM with the status of all conditions of certification in a spreadsheet format. The compliance matrix shall identify: 1. the technical area (e.g., biological resources, facility design, etc.); 2. the condition number; 3. a brief description of the verification action or submittal required by the condition; 4. the date the submittal is required (e.g., sixty (60) days prior to construction, after final inspection, etc.); 5. the expected or actual submittal date; 6. the date a submittal or action was approved by the CBO, CPM, or delegate agency, if applicable; 7. the compliance status of each condition (e.g., "not started," "in progress," or "completed" (include the date); and 8. if the condition was amended, the updated language and the date the amendment was proposed or approved. The CPM can provide a template for the compliance matrix upon request.		Y	N/A	Annual	Annual Compliance Report	Ongoing	

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Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
COMPLIA NCE	7	a		 submit searchable electronic ACRs instead of MCRs. ACRs are due for each year of commercial operation and may be required for a specified period after decommissioning to monitor closure compliance, as specified by the CPM. The searchable electronic copies may be filed on an electronic storage medium or by e-mail, subject to CPM approval. Each ACR must include the AFC number, identify the reporting period, and contain the following: 1. an updated compliance matrix showing the status of all conditions of certification (fully satisfied conditions do not need to be included in the matrix after they have been reported as completed); 2. a summary of the current project operating status and an explanation of any significant changes to facility operations during the year; 3. documents required by specific conditions to be submitted along with the ACR; each of these items shall be identified in the transmittal letter with the condition it satisfies and submitted as an attachment to the ACR; 4. a cumulative list of all post-certification changes approved by the Energy Commission or the CPM; 5. an explanation for any submittal deadlines that were missed, accompanied by an estimate of when the information will be provided; 6. a list of filings submitted to, and permits issued by, other governmental agencies during the year; 8. a list of the year's additions to the on-site compliance file; 9. an evaluation of the Site Contingency Plan, including amendments and plan updates; and 10. a list of complaints, notices of violation, official warnings, and citations received during the year, a description of how the issues were resolved, and the status of any 	ACRs are due for each year of commercial operation and may be required for a specified period after decommissioning to monitor closure compliance, as specified by the CPM.	N	N/A	Annual	Annual Compliance Report	Ongoing	
COMPLIA	7	b	Y	unresolved matters.	Include an updated Provisional Closure Plan and Cost Estimate in every	N	N/A	Every 5	Annual Compliance		
NCE					fifth-year ACR for CPM review and approval.			Years	Report		
COMPLIA NCE	8			Confidential Information. Any information that the project owner designates as confidential shall be submitted to the Energy Commission's Executive Director with an application for confidentiality, pursuant to Title 20, California Code of Regulations, section 2505 (a). Any information deemed confidential pursuant to the regulations shall remain undisclosed, as provided in Title 20,		N	N/A	N/A	General compliance	Ongoing	
COMPLIA NCE	9			25806 (b) of the Public Resources Code, the project owner is required to pay an	The initial payment is due on the date the Energy Commission dockets its final Decision. All subsequent payments are due by July 1 of each year in which the facility retains its certification.		N/A	N/A	General compliance	Ongoing	
COMPLIA NCE	10			Amendments, Staff-Approved Project Modifications, Ownership Changes, and Verification Changes. The project owner shall petition the Energy Commission, pursuant to Title 20, California Code of Regulations, section 1769, to modify the design, operation, or performance requirements of the project or linear facilities, or to transfer ownership or operational control of the facility. The CPM will determine whether staff approval will be sufficient, or whether Commission approval will be necessary. It is the project owner's responsibility to contact the CPM to determine if a proposed project change triggers the requirements of section 1769. Section 1769 details the required contents for a Petition to Amend an Energy Commission Decision. The only change that can be requested by means of a letter to the CPM is a request to change the verification without first securing Energy Commission, or Energy Commission staff, approval may result in an enforcement action, including civil penalties, in accordance with section 25534 of the Public Resources Code. If the Energy Commission's rules regarding amendments are revised, the rules in effect at the time the change is requested shall apply.		Y	N/A	Prior to	Project Change on Design	Ongoing	Approved by Start of Tank Demolition Letter from CPM, received on 12-9-14 for tanks 5, 6, and 7 Demolition. Approved by Start of tank demolition 1, 2, and 4, and soil remedation letter 8-31-15.
COMPLIA NCE	11	b	Y		The project owner shall respond to all complaints within 24 hours or the next business day.	N	1	after	Complaint	Ongoing	

											
Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
COMPLIA NCE	11	С	Y		In addition to including all complaints, notices, and citations with the MCRs and ACRs, within ten days of receipt, the project owner shall report, and provide copies to the CPM, of all complaints, including noise and lighting complaints, notices of violation, notices of fines, official warnings, and citations.	Ν	N/A	Monthly	Monthly Compliance Report	Ongoing	
COMPLIA NCE	11	d	Y		In addition to including all complaints, notices, and citations with the MCRs and ACRs, within ten days of receipt, the project owner shall report, and provide copies to the CPM, of all complaints, including noise and lighting complaints, notices of violation, notices of fines, official warnings, and citations.	N	N/A	Annual	Annual Compliance Report	Ongoing	
COMPLIA NCE	11	e	Y		In addition to including all complaints, notices, and citations with the MCRs and ACRs, within ten days of receipt, the project owner shall report, and provide copies to the CPM, of all complaints, including noise and lighting complaints, notices of violation, notices of fines, official warnings, and citations.	Ν	10	after	Complaint	Ongoing	
COMPLIA	12			Emergency Response Site Contingency Plan. No less than 60 days prior to the start of commercial operation (or other date agreed to by the CPM), the project owner shall submit for CPM review and approval, an Emergency Response Site Contingency Plan (Contingency Plan). The Contingency Plan shall evidence a facility's coordinated emergency response and recovery preparedness for a series of reasonably foreseeable emergency events. The CPM may require the updating of the Contingency Plan over the life of the facility. Contingency Plan elements include, but are not limited to: 1. a site-specific list and direct contact information for persons, agencies, and responders to be notified for an unanticipated event; 2. a detailed and labeled facility map, including all fences and gates, the windsock location (if applicable), the on- and off-site assembly areas, and the main roads and highways near the site; 3. a detailed and labeled map of population centers, sensitive receptors, and the nearest emergency response facilities; 4. a description of the on-site, first response capabilities, including a detailed map of interior and exterior evacuation routes, and the planned location(s) of all permanent safety equipment; 5. an organizational chart including the name, contact information, and first aid/emergency response certification(s) and renewal date(s) for all personnel regularly on-site; 6. a brief description of reasonably foreseeable, site-specific incidents and accident sequences (on- and off-site), including response procedures and protocols and site security measures to maintaining contingency response procedures and protocols and site security measures to maintaining contingency response capabilities; and 8. the procedures and implementation sequence for the safe and secure shutdown of all non-critical equipment and removal of hazardous materials and waste (see also specific conditions of certification for the charita reas of Public Health, Waste Management, Hazardous Materials Management, and Worker Safety).	No less than 60 days prior to the start of commercial operation (or other date agreed to by the CPM), the project owner shall submit for CPM review and approval, an Emergency Response Site Contingency Plan (Contingency Plan).	N	60	prior to	Commercial Operation	Ongoing	
COMPLIA NCE	13	а		project owner shall notify the CPM or compliance office manager, by telephone and e-	Within one hour after it is safe and feasible, the project owner shall notify the CPM or compliance office manager, by telephone and e-mail, of any incident at the power plant or appurtenant facilities	Ν	1 hour	after	Incident	Ongoing	

					Compliance Matrix: 2023						
Fechnical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
COMPLIA NCE	13	b		 Within one week of the incident, the project owner shall submit to the CPM a detailed incident report, which includes, as appropriate, the following information: 1. a brief description of the incident, including its date, time, and location; 2. a description of the cause of the incident, or likely causes if it is still under investigation; 3. the location of any off-site impacts; 4. description of emergency response actions associated with the incident; 6. identification of emergency notifications made to federal, state, and/or local agencies; 8. identification of any hazardous materials released and an estimate of the quantity released; 9. a description of any injuries, fatalities, or property damage that occurred as a result of the incident; 10. fines or violations assessed or being processed by other agencies; 11. name, phone number, and e-mail address of the appropriate facility contact person having knowledge of the event; and 12. corrective actions to prevent a recurrence of the incident. The project owner shall maintain all incident report records for the life of the project, including closure. After the submittal of the incident reports within 24 hours of a request. 	Within one week of the incident, the project owner shall submit to the CPM a detailed incident report.	Ν	5	after	Incident	Ongoing	
COMPLIA NCE	14	a		Non-operation. If the facility ceases operation temporarily, either planned or unplanned, for longer than one week, but less than three months (or other CPM- approved date), the project owner shall notify the CPM (by telephoneand e-mail), interested agencies, and nearby property owners. Notice of planned non-operation shall be given at least two weeks prior to the scheduled date. Notice of unplanned non operation shall be provided no later than one week after non-operation begins. For any non-operation, a Repair/Restoration Plan for conducting the activities necessary to restore the facility to availability and reliable and/or improved performance shall be submitted to the CPM within one week after notice of non- operation is given. If non-operation is due to an unplanned incident, temporary repairs and/or corrective actions may be undertaken before the Repair/Restoration Plan is submitted. The Repair/Restoration Plan shall include: 1. identification of operational and non-operational components of the plant; 2. a detailed description of the repair or restoration activities; 3. a proposed schedule for completing the repair or restoration activities; 4. an assessment of whether or not the proposed activities would require changing, adding, and/or deleting any conditions of certification, and/or would cause noncompliance with any applicable LORS; and 5. planned activities during non-operation, including any measures toensure continued compliance with all conditions of certification and LORS.		N	10	prior to	Planned Non- Operation	Ongoing	
COMPLIA NCE	14	b	Y		Notify the CPM (by telephone and e-mail), interested agencies, and nearby property owners of unplanned non-operation shall be provided no later than one week after non-operation begins.	Ν	5	prior to	Unplanned Non- Operation	Ongoing	
COMPLIA NCE	14	С	Y		For any non-operation, a Repair/Restoration Plan for conducting the activities necessary to restore the facility to availability and reliable and/or improved performance shall be submitted to the CPM within one week after notice of non-operation is given.	Ν	5	after	Notice of Non- Operation	Ongoing	

Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
COMPLIA NCE	14	d	Y	The CPM will determine if CBO oversight or compliance site monitoring is required. Written updates to the CPM for non-operational periods, until operation resumes, shall include: 1. progress relative to the schedule; 2. developments that delayed or advanced progress or that may delay or advance future progress; 3. any public, agency, or media comments or complaints; and 4. projected date for the resumption of operation. During non-operation, all applicable conditions of certification and reporting requirements remain in effect. If, after one year from the date of the project owner's last report of productive Repair/Restoration Plan work, the facility does not resume operation or does not provide a plan to resume operation, the Executive Director may assign suspended status to the facility and recommend commencement of permanent closure activities. Within 90 days of the Executive Director's determination, the project owner shall do one of the following: 1. If the facility has a closure plan, the project owner shall update it and submit it for Energy Commission review and approval. 2. If the facility does not have a closure plan, the project owner shall develop one consistent with the requirements in this Compliance Plan and submit it for Energy Commission review and approval.	 Within 90 days of the Executive Director's determination, the project owner shall do one of the following: 1. If the facility has a closure plan, the project owner shall update it and submit it for Energy Commission review and approval. 2. If the facility does not have a closure plan, the project owner shall develop one consistent with the requirements in this Compliance Plan and submit it for Energy Commission review and approval. 	Ν	90	after	Permanent Closure	Ongoing	
COMPLIA NCE	15	a	Y	 Facility Closure Planning. To ensure that a facility's eventual permanent closure and long-term maintenance do not pose a threat to public health and safety and/or to environmental quality, the project owner shall coordinate with the Energy Commission to plan and prepare for eventual permanent closure. A. Provisional Closure Plan and Estimate of Permanent Closure Costs To assure satisfactory long-term site maintenance and adequate closure for "the whole of a project," the project owner shall submit a Provisional Closure Plan and Cost Estimate for CPM review and approval within 60 days after the start of commercial operation. The Provisional Closure Plan and Cost Estimate shall consider applicable final closure plan requirements, and reflect the use of an independent third party to carry out the permanent closure. The Provisional Closure Plan and Cost Estimate shall provide for a phased closure process and include but not be limited to: 1. comprehensive scope of work and itemized budget; 2. closure plan development costs; 3. dismantling and demolition; 4. recycling and site clean-up; 5. mitigation and monitoring direct, indirect, and cumulative impacts; 6. site remediation and/or restoration; 7. interim and long term operation monitoring and maintenance, including long-term equipment replacement costs; and 8. contingencies. The project owner shall include an updated Provisional Closure Plan and Cost Estimate in every fifth-year ACR for CPM review and approval. Each updated Provisional Closure Plan and Cost Estimate shall reflect the most current regulatory standards, best management practices, and applicable LORS. 	Submit a Provisional Closure Plan and Cost Estimate for CPM review and approval within 60 days after the start of commercial operation.	N	60	after	Commercial Operation	Ongoing	

					Compliance Matrix: 2023						
Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
COMPLIA NCE	15	b		 B. Final Closure Plan and Cost Estimate At least three years prior to initiating a permanent facility closure, the project owner shall submit for Energy Commission review and approval, a Final Closure Plan and Cost Estimate, which includes any long-term, post-closure site maintenance and monitoring. Final Closure Plan and Cost Estimate contents include, but are not limited to: a statement of specific Final Closure Plan objectives; a statement of qualifications and resumes of the technical experts proposed to conduct the closure activities, with detailed descriptions of previous power plant closure experience; identification of any facility-related installations not part of the Energy Commission certification, designation of who is responsible for these, and an explanation of what will be done with them after closure; a comprehensive scope of work and itemized budget for permanent plant closure and site maintenance activities, with a description and explanation of methods to be used, broken down by phases, including, but not limited to: a) dismantling and demolition; b) recycling and site clean-up; c) impact mitigation and monitoring; d) site remediation and/or restoration and; e) any contingencies. a revised/updated Final Cost Estimate for all closure activities, by phases, including site monitoring and maintenance costs, and long-term equipment replacement; 	At least three years prior to initiating a permanent facility closure, the project owner shall submit for Energy Commission review and approval, a Final Closure Plan and Cost Estimate, which includes any long-term, post- closure site maintenance and monitoring.	Ν	3 Years	prior to	Permanent Closure	Ongoing	
COMPLIA NCE	15	C		 6. a schedule projecting all phases of closure activities for the power plant site and all appurtenances constructed as part of the Energy Commissioncertified project; 7. an electronic submittal package of all relevant plans, drawings, risk assessments, and maintenance schedules and/or reports, including an above- and below-ground infrastructure inventory map and registered engineer's or delegate CBO's assessment of demolishing the facility; additionally, for any facility that permanently ceased operation prior to submitting a Final Closure Plan and Cost Estimate and for which only minimal or no maintenance has been done since, a comprehensive condition report focused on identifying potential hazards; 8. all information additionally required by the facility's conditions of certification applicable to plant closure; 9. an equipment disposition plan, including: a) recycling and disposal methods for equipment and materials; and b) identification and justification for any equipment and materials that will remain onsite after closure; 10. a site disposition plan, including but not limited to: a) proposed rehabilitation, restoration, and/or remediation procedures, as required by the conditions of certification and applicable LORS; and b) site maintenance activities. 11. identification and assessment of all potential direct, indirect, and cumulative impacts and proposal of mitigation measures to reduce significant adverse impacts to a less-than-significant level; potential impacts to be considered shall include, but not be limited to: a) traffic b) noise and vibration c) soil erosion d) air quality degradation e) solid waste f) hazardous materials g) waste water discharges h) contaminated soil 		N				Ongoing	

					Compliance Matrix: 2023						
Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
GEN	15	d		 identification of all current conditions of certification, LORS, federal, state, regional, and local planning efforts applicable to the facility, and proposed strategies for achieving and maintaining compliance during closure; updated mailing list or listserv of all responsible agencies, potentially interested parties, and property owners within one mile of the facility; identification of alternatives to plant closure and assessment of the feasibility and environmental impacts of these; and description of and schedule for security measures and safe shutdown of all non-critical equipment and removal of hazardous materials and waste (see conditions of certification for Public Health, Waste Management, Hazardous Materials Management, and Worker Safety). If implementation of an Energy Commission-approved Final Closure Plan and Cost Estimate is not initiated within one year of its approval date, it shall be updated and resubmitted to the Commission for supplementary review and approval. If a project owner initiates but then suspends closure activities, and the suspension continues for longer than one year, or subsequently abandons the facility, the Final Closure Plan and Cost Estimate shall be resubmitted to the Commission for supplementary review and approval. The project owner remains liable for all costs of contingency planning and closure. 	At least 30 days prior to the demolition of the EPS, the project owner shall	N	30	prior to	Demolition of the	Ongoing	
			IN .		contact the CBO to obtain the CBO's approval of the work.			'	EPS	Started	
HAZ	1	b	Y		and in the Annual Compliance Report.	N	N/A	Annual	Annual Compliance Report	00	
HAZ	8	C	Ŷ		In the annual compliance report, the project owner shall include a statement that all current project employee and appropriate contractor background investigations have been performed, and that updated certification statements have been appended to the operations security plan. In the annual compliance report, the project owner shall include a statement that the operations security plan includes all current hazardous materials transport vendor certifications for security plans and employee background investigations.	Ν	N/A	Annual	Annual Compliance Report	Ungoing	
OIL&WA TER	4	b	Y		The project owner shall submit to the CPM the annual water quality monitoring report required by the SDRWQCB in the annual compliance report. The project owner shall notify the CPM of all WDR Order violations, the actions taken or planned to bring the project back into compliance with the WDR Order, and the date compliance was reestablished.	Ν	N/A	Annual	Annual Compliance Report	Ongoing	
OIL&WA TER	5	b	Y		The project owner shall submit to the CPM any water quality monitoring reports required by the City in the annual compliance report. The project owner shall notify the CPM of any violations of the permit(s) and conditions, the actions taken or planned to bring the project back into compliance with the permit(s), and the date compliance was reestablished.	Ν	N/A	Annual	Annual Compliance Report	Ongoing	
SOIL&WA TER	6	b	Y		The project owner shall provide a report on the servicing, testing, and calibration of the metering devices in the annual compliance report. The project owner shall submit a water use summary report to the CPM in the annual compliance report for the life of the project. The annual summary report shall be based on and distinguish recorded daily use and emergency uses of potable and recycled water. The report shall include calculated monthly range, monthly average, and annual use by the project in both gallons per minute and acre-feet. After the first year and for subsequent years, this information shall also include the yearly range and yearly average potable and recycled water used by the project.	Ν	N/A	Annual	Annual Compliance Report	Ongoing	
Soil&WA Ter	6	C			The project owner shall submit a petition to amend within 3 months of exceeding the maximum allowable 300 acre-feet of potable water for operational uses.	Ν	90	after	Exceeding Maximum Allowable 300 acre- Feet of Potable Water for Operational Uses		
SOIL&WA TER	7	b	Y		During operations, the project owner shall submit to the CPM any wastewater quality monitoring reports required by the City in the annual compliance report.	Ν	N/A	Annual	Annual Compliance Report	Ongoing	

echnical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
OIL&WA TER	7	C	Y		The project owner shall submit any notices of violation from the City to the CPM within ten days of receipt and fully explain the corrective actions taken in the annual compliance report.	N	10	after	NOV	Ongoing	
OIL&WA TER	9	a	Y	Prior to transport and disposal of any facility construction or demolition-related wastewaters offsite, the project owner shall test and classify the stored wastewater to determine proper management and disposal requirements. The project owner shall provide evidence that wastewater is disposed of at an appropriately licensed facility. The project owner shall ensure that the wastewater is transported and disposed of in accordance with the wastewater's characteristics and classification and all applicable LORS (including any CCR Title 22 Hazardous Waste and Title 23 Waste Discharges to Land requirements). Where discharge of wastewater must comply with the San Diego Regional Water Quality Control Board (SDRWQCB) and State Water Resources Control Board regulatory requirements, the project owner shall submit a Report of Waste Discharge (ROWD) to the compliance project manager (CPM) and SDRWQCB for determination of which regulatory waiver or permit applies to the proposed discharges. The project owner shall pay all necessary fees for filing and review of the ROWD and all other related fees. Checks for such fees shall be submitted to the SDRWQCB and shall be payable to the State Water Resources Control Board. The project owner shall ensure compliance with the provisions of the waiver or permit applicable to the discharge. Where the regulatory requirements are not applied pursuant to a National Pollutant Discharge Elimination System permit, it is the Commission's intent that the requirements of the applicable waiver or permit be enforceable by both the Commission and the SDRWQCB. In furtherance of that objective, the Commission hereby delegates the enforcement of the waiver or permit requirements, and associated monitoring, inspection, and annual fee collection authority, to the SDRWQCB. The CPM and SDRWQCB shall confer with each other and coordinate, as needed, in the enforcement of the requirements.	The project owner shall submit to the CPM copies of all relevant correspondence between the project owner and the SWRCB or SDRWQCB about the EPS demolition wastewater discharge requirements within ten days of its receipt or submittal. This information shall include copies of the Notice of Intent and Notice of Termination for the project. A letter from the SWRCB or SDRWQCB indicating that there is no requirement for the discharge of EPS demolition wastewater would satisfy this condition.	N	10	after	receipt or submittal of correspondence between project owner and SWRCB or SDRWQCB about the EPS demolition wastewater discharge requirements	Ongoing	
TLSN	3			The project owner shall ensure that the rights-of-way of the proposed transmission lines are kept free of combustible material, as required under the provisions of section 4292 of the Public Resources Code and section 1250 of Title 14 of the California Code of Regulations.	carried out along the right-of-way of each line and provide such summaries in the Annual Compliance Report.	Ν	N/A	Annual	During the first five years of plant operation		
VIS	1	С	Y		The project owner shall provide a status report regarding surface treatment maintenance in the Annual Compliance Report. The report shall specify: a) the condition of the surfaces of all structures and buildings at the end of the reporting year; b) maintenance activities that occurred during the reporting year; and c) the schedule of maintenance activities for the next year.	Ν	N/A	Annual	Annual Compliance Report	Ongoing	
VIS	2	b	Ν		3. The planting must occur during the first optimal planting season following site mobilization. The project owner shall simultaneously notify the CPM and the City of Carlsbad within seven days after completing installation of the landscaping, that the landscaping is ready for inspection.	N	7	after	Landscaping	Ongoing	
VIS	2	С	Y		4. The project owner shall report landscape maintenance activities, including replacement of dead or dying vegetation, for the previous year of operation in each Annual Compliance Report. The City of Carlsbad, with the concurrence of the CPM, shall have authority to require replacement planting of dead or dying vegetation through the life of the project	N	N/A	Annual	Annual Compliance Report	Ongoing	

					Compliance Matrix. 2025						
Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
VIS	3	В		If necessary to provide visual screening of staging activities, equipment and materials in the short term, the project owner shall provide temporary dark-colored, opaque fencing to provide visual screening until landscape screening described above has achieved sufficient maturity to provide visual screening. Existing opaque fencing shall be maintained along the Carlsbad Boulevard frontage of the EPS for the duration of construction and demolition. The project owner shall submit to the CPM for review and approval, and simultaneously to the city of Carlsbad for review and comment, a landscaping plan whose proper implementation will satisfy these requirements. The plan shall include: a) A detailed landscape, grading, and irrigation plan, at a reasonable scale. The plan shall demonstrate how the requirements stated above shall be met. The plan shall provide a detailed installation schedule demonstrating installation of as much of the landscaping as early in the construction process as is feasible in coordination with project construction. The intent of the plan shall be to minimize loss of existing perimeter tree and shrub screening, particularly at the northeast laydown site; and to provide supplemental and replacement plantings as needed to screen staging sites.		N			As Needed	Ongoing	
VIS	3	b	Ν		3. The planting must occur during the first optimal planting season following site mobilization. The project owner shall simultaneously notify the CPM and the City of Carlsbad within seven days after completing installation of the landscaping, that the landscaping is ready for inspection.	N	7	after	Landscaping	Ongoing	
VIS	3	с	Y		4. The project owner shall report landscape maintenance activities, including replacement of dead or dying vegetation, for the previous year of operation in each Annual Compliance Report.	Ν	N/A	Annual	Annual Compliance Report	Ongoing	
VIS	4	e	Y		Within 48 hours of receiving a lighting complaint, the project owner shall provide the CPM with a complaint resolution form report as specified in the Compliance General Conditions including a proposal to resolve the complaint, and a schedule for implementation.	Ν	48 hrs	within receipt	Lighting Complaint	Ongoing	
VIS	4	f	Ν		The project owner shall notify the CPM within 48 hours after completing implementation of the proposal.	N	48 hrs	within receipt	Lighting Complaint	Ongoing	
VIS	4	g	Y		A copy of the complaint resolution form report shall be submitted to the CPM within 30 days	Ν	30	after	Lighting Complaint	Ongoing	
VIS	5	a	Y	fence line and storage tank perimeter road. This measure shall be coordinated with	At the earliest feasible time, the project owner shall coordinate with	N	N/A	earliest feasible time	I-5 Widening DEIS	Ongoing	

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VIS	5	b	Y	along the entire CECP/I-5 boundary, to accommodate replacement tree canopy of sufficient height and density as to provide substantial visual screening of the tall amended CECP features, including exhaust stacks and transmission poles; and to substantially replace any existing tree canopy on the eastern CECP boundary lost to highway expansion. The landscape buffer may occupy portions of the CECP site, the Caltrans right-of-way, or both. Wherever feasible, the landscape buffer shall maintain a minimum 20 foot width. Where infeasible, exceptions shall be approved by the CPM. The solution developed under Condition of Certification VIS-5 shall not preclude	At the earliest feasible time, the project owner shall coordinate with Caltrans to discuss specific hazard and visual mitigation strategies. The project owner shall work with Caltrans to devise a specific Cumulative Impact Mitigation Plan for accommodating hazard protection and visual screening, to be implemented at the time of I-5 widening. Following coordination and plan development with Caltrans, the project owner shall submit a draft of the Cumulative Impact Mitigation Plan to the city of Carlsbad for review and comment, and to the CPM for review and approval, at least 180 days prior to completion by Caltrans of I-5 widening in the area of the CECP boundary.	Ν	180	prior to	I-5 Widening DEIS	Ongoing	
VIS	5	C		To the extent that it is necessary to plant or maintain vegetative screening on project lands transferred to Caltrans in furtherance of the widening project, the project owner shall be responsible for the costs of doing so, whether by reimbursement to Caltrans, performing the work itself under agreement with Caltrans or a third party (such as the City of Carlsbad) contracting with Caltrans, or some other means.	The project owner shall submit any required revisions within 30 days of notification by the CPM. The project owner shall not implement the plan until receiving approval from the CPM.	Ν	30	after	Revisions to Cumulative Impact Mitigation Plan	Ongoing	
VIS	5	d	Ν		After receiving approval, the project owner shall complete implementation of the mitigation plan at the earliest feasible opportunity, but not later than 180 days after plan approval.	Ν	180	after	I-5 Widening DEIS	Ongoing	
VIS	5	e	N		The project owner shall notify the CPM within seven days after implementing the approved plan that the plan is ready for inspection.	Ν	7	after	Implementation of plan	Ongoing	
WASTE	9	b	Y		The project owner shall submit any required revisions to the CPM within 20 days of notification from the CPM that revisions are necessary.	Ν	20	after	Commercial Operation	Ongoing	
WASTE	9	С	Y		The project owner shall also document in each Annual Compliance Report the actual volume of wastes generated and the waste management methods used during the year; provide a comparison of the actual waste generation and management methods used to those proposed in the original Operation Waste Management Plan; and update the Operation Waste Management Plan as necessary to address current waste generation and management practices.	Ν	N/A	Annual	Annual Compliance Report	Ongoing	

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WASTE	11			accordance with all applicable federal, state, and local requirements.	The project owner shall document all unauthorized releases and spills of hazardous substances, materials, or wastes that occur on the project property or related pipeline and transmission corridors. The documentation shall include, at a minimum, the following information: location of release; date and time of release; reason for release; volume released; amount of contaminated soil/material generated; how release was managed and material cleaned up; if the release was reported; to whom the release was reported; release corrective action and cleanup requirements placed by regulating agencies; level of cleanup achieved and actions taken to prevent a similar release or spill; and disposition of any hazardous wastes and/or contaminated soils and materials that may have been generated by the release. Copies of the unauthorized spill documentation shall be provided to the CPM within 30 days of the date the release was discovered.	N	30	after	Release/Spill of Haz Mat	Ongoing	
WORKER SAFETY	7				At least 60 days prior to the start of I-5 widening activities that encroach onto the project site, the project owner shall submit a copy of the final plans for the barrier and any cost-sharing contract to the CPM for review and approval.	N	60	prior to	I-5 Widening	Ongoing	Dependent on CalTrans Progress