



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

Web Site: portal.ct.gov/csc

VIA ELECTRONIC MAIL

April 19, 2024

Lee D. Hoffman, Esq.
Pullman & Comley, LLC
90 State House Square
Hartford, CT 06103-3702
lhoffman@pullcom.com

RE: **PETITION NO. 1562** – 524 NLR LLC Declaratory Ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, for the construction, maintenance and operation of a 3.99-megawatt AC solar photovoltaic electric generating facility located at 524 New London Road, Colchester, Connecticut, and associated electrical interconnection. **Compliance with Conditions Nos. 2, 4 and 5. Modification of Condition 3 and Reporting Requirements. Commencement of Construction.**

Dear Attorney Hoffman:

The Connecticut Siting Council (Council) is in receipt of your correspondence dated April 19, 2024 regarding compliance with Condition Nos. 2, 4 and 5 of the Declaratory Ruling issued by the Council on June 9, 2023 for the above-referenced facility. The correspondence includes a copy of the DEEP Stormwater Permit, TCLP test results for the selected solar panels that indicate the panels would not be characterized as hazardous waste at the time of disposal and contact information for the spill response contractor within the fuel storage and spill remediation plan on Site Plan GN-2, in accordance with Condition Nos. 2, 4, and 5, respectively.

The April 19, 2024 correspondence also includes a request for project changes as follows:

- a. Modify Condition 3 to allow for the commencement of construction prior to submitting the final structural design for the tracking system stamped by a Professional Engineer duly licensed in the State of Connecticut to allow for a phased construction approach and site stabilization. The final design of the racking system will be submitted prior to racking installation.
- b. Modify the construction progress reporting intervals from monthly, pursuant to RCSA §16-50j-62(b)(3), to quarterly.

Pursuant to Condition No. 1 of the Council's June 9, 2023 Declaratory Ruling and RCSA §16-50j-62(b)(3), the requested project changes are hereby approved. This approval applies only to the project changes described in the April 19, 2024 correspondence. As requested, project construction can commence upon the issuance of this letter.

Please be advised that deviations from the standards established by the Council in the Declaratory Ruling are enforceable under the provisions of Connecticut General Statutes §16-50u.

Thank you for your attention and cooperation.
Sincerely,



Melanie A. Bachman
Executive Director

MAB/RDM

- c: The Honorable Bernie Dennler, First Selectperson, Town of Colchester (bdennler@colchesterct.gov)
The Honorable Ed Chmielewski, First Selectperson, Town of Salem (selectman@salemct.gov)
Service List, dated March 7, 2024



Lee D. Hoffman
90 State House Square
Hartford, CT 06103-3702
p 860 424 4315
f 860 424 4370
lhoffman@pullcom.com
www.pullcom.com

April 19, 2024

VIA ELECTRONIC MAIL AND U.S. MAIL

Melanie Bachman
Executive Director/Staff Attorney
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: PETITION NO. 1562 - 524 NLR LLC petition for a declaratory ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, for the proposed construction, maintenance and operation of a 3.99-megawatt AC solar photovoltaic electric generating facility located at 524 New London Road, Colchester, Connecticut, and associated electrical interconnection.

Dear Ms. Bachman:

I am writing on behalf of my client, 524 NLR LLC (“Petitioner”), in connection with the above referenced Docket. This letter will serve as notification to the Council that the project desires to commence phased construction immediately, but in no event later than May 2, 2024. The first phase of the construction schedule will be limited to site preparation activities and would be anticipated to be completed in accordance with the following timeline:

Tree clearing / Brush mowing – 5/2/24 – 5/4/24
Site Mobilization – 5/9/24
Preparation of site to allow for silt fence installation – 5/10/24 – 5/12/24
Silt Fence installation – 5/10/24 – 5/12/24
Fence demolition – 5/11/24 – 5/15/24
Rock Crusher – 5/21/24 – 5/24/24
Basin Construction – 5/15/24 – 6/5/24
Infield Work – 6/5/24 – 6/21/24
Seeding – 6/21/24 – 6/25/24

Please note that in connection with the stormwater permitting for this project, the Petitioner has consulted with the regional conservation district regarding these activities. The conservation district has approved Petitioner’s engagement in these activities.

In addition, this letter will provide the following conditions of approval contained within the Council’s Decision dated June 9, 2023: (1) a copy of the Connecticut Department of Energy and Environmental Protection Stormwater Permit (attached hereto as **Exhibit A**); (2) results of a TCLP test for the solar panels that indicates the panels would not be characterized as hazardous waste at the time of disposal (attached hereto as **Exhibit B**); and (3) contact information for the spill response contractor within the fuel storage and spill remediation plan on Site Plan GN-2, which is as follows:

Page 2

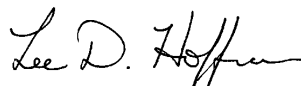
Global Remediation Services Inc.
700 Richmond Street
East Taunton, MA 02718
24/7 Emergency Response Line: (508)-828-1005
info@globalremediation.com

The Petitioner recognizes that Item No. 3 of the Council's June 9, 2023 Decision requires the Petitioner to submit final structural designs for the tracking system stamped by a Professional Engineer who is duly licensed in the State of Connecticut prior to the commencement of construction. The Petitioner is currently in the process of completing these designs, however, the Petitioner respectfully requests that it be allowed to complete the work outlined above prior to submitting the designs to the Council. By proceeding in this staged fashion, the Petitioner will be able to get grass seed down early and allow for better site stabilization. Before the Petitioner puts any racking into the ground or other such permanent construction activity, the Petitioner will provide the required, stamped structural designs.

This letter will also serve as a formal request to the Council regarding the reporting requirements found in RCSA §16-50j-62. Under RCSA §16-50j-62(b)(3), Petitioner is presently required to provide the Council with a monthly progress report relating to its construction. Petitioner respectfully requests that the Council modify the reporting time intervals from monthly to quarterly, as the Council is empowered to do under Section 16-50j-62(b)(3).

Thank you in advance for your prompt consideration of these matters. In particular, the Petitioner would be appreciative if the Council could indicate whether this limited construction activity can take place prior to May 2, 2024. Should you have any questions concerning this submittal, please contact me at your convenience. I certify that copies of this submittal have been made to all parties on the Petition's Service List as of this date.

Sincerely,



Lee D. Hoffman

cc: Service List, Docket 1562



Connecticut Department of
**ENERGY &
ENVIRONMENTAL
PROTECTION**

79 Elm Street • Hartford, CT 06106-5127

www.ct.gov/deep

Affirmative Action/Equal Opportunity Employer

Bureau of Materials Management and Compliance Assurance

Notice of Permit Authorization

March, 14 2024

James Schwartz
524 NLR LLC
9 Novelty Ln
Essex, CT 06426-1179

Subject: General Permit Registration for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities
Application NO.: 202304973

James Schwartz:

The Department of Energy and Environmental Protection, Water Permitting and Enforcement Division of the Bureau of Materials Management and Compliance Assurance, has completed the review of the SCRAPYARD SOLAR (located at 524 New London Rd, Colchester) registration for the **General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, effective 12/31/2020, modified 11/25/2022 (general permit)**. The project is compliant with the requirements of the general permit and the discharge(s) associated with this project is (are) authorized to commence as of the date of this letter. Permit No. GSN003967 has been assigned to authorize the stormwater discharge(s) from this project.

Questions can be emailed to deep.stormwater@ct.gov.

SGS



TEST REPORT

CLIENT DETAILS

Contact -
 Client CSI Solar Co., Ltd.
 Address 199 Lushan Road, SND, Suzhou, Jiangsu
 CHINA
 Telephone -
 Facsimile -
 Email -
 Order Number -
 Samples Solid waste(1)
 Project -

LABORATORY DETAILS

Manager SGS-CSTC
 Laboratory Environment Laboratory
 Address 2/F, 3RD BUILDING NO. 889,
 YISHAN ROAD, XUHUI DISTRICT,
 SHANGHAI, CHINA
 Telephone +86 (21) 6140 2666-2002
 Facsimile +86 (21) 6115 2164
 Email REPORT.ENV@SGS.COM
 Report Number SHE23-01445 R3
 SGS Reference 0000269060
 Date Reported 2023/05/17
 Analysis Date 2023/03/27 - 2023/04/07

COMMENTS

- 1.The results apply to the sample(s) as received.
- 2.The report is translated from SHE23-01445 R2.
- 3.This Report certificate cancels and supersedes the Report SHE23-01445 R1 dated 2023/04/07 issued by SGS, original report will be invalid from today.
- 4.Amendment:Add comments.

SIGNATORIES

李超然

Edith LI
 Reported by

孟俊

Jun Meng
 Reviewed by

李魏

Vivian LI
 Approved by



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
 Testing Center-Environment Laboratory.

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t (86-21) 61072828 f (86-21) 61152164

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声明 Statement

1. 检测报告无本实验室检验检测专用章无效。
The test report is invalid without the official seal of the laboratory.
2. 未经本公司书面许可，不得复制(全文复制除外)检测报告。
This test report cannot be reproduced in any way, except in full content, without prior approval in writing by the laboratory.
3. 检测报告无编制、审核、批准人签字无效。
The test report is invalid without the signature of the compiler, the checker and the approver
4. 检测报告涂改无效。
The test report is invalid if altered.
5. 本检测报告以中文为准，英文文本(如有)仅为译文，两者发生冲突时，应以中文文本为准。
The test report has been drafted in Chinese and translated into English (if applicable) for convenience only. In the event of discrepancy, the Chinese version shall prevail.
6. 送检样品的样品类型、样品名称、样品描述、项目名称等信息由客户提供。
The sample type, sample name, sample description, project name and other information of the submitted samples are provided by the client.
7. 如未加盖CMA章则仅供内部参考，不具有对社会的证明作用。
The report is for internal reference only if it is not stamped with CMA mark, it has no proof function to the society.
8. 如对本检测报告有异议，请在收到报告10天之内与本公司联系。
Should you have any queries or objection to the test report, please contact us within 10 days after receiving the report.

符号表/Legend

- "-" 未测试该参数或不适用/The parameter is not tested or not applicable
- ↑ 提高检出限/Detection limit raised
- ↓ 降低检出限/Detection limit lowered
- ND 未检出/Not Detected



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		Sample Number	23-01445.001			
		Sample Name	PV Module:CS7x-TB-AG			
		Test Object	Solid waste			
		Sample Description	CP23-014221			
		Receive Date	2023/03/27			
Parameter	Method	Units	MDL	Limit	Testing Results	
Arsenic (As)	USEPA 200.8	mg/L	0.050	≤5	ND	
Barium (Ba)	USEPA 200.8	mg/L	0.010	≤100	ND	
Cadmium (Cd)	USEPA 200.8	mg/L	0.001	≤1	0.008	
Chromium (Cr)	USEPA 200.8	mg/L	0.010	≤5	ND	
Lead (Pb)	USEPA 200.8	mg/L	0.010	≤5	1.47	
Selenium (Se)	USEPA 200.8	mg/L	0.050	≤1	ND	
Silver (Ag)	USEPA 200.8	mg/L	0.010	≤5	ND	
Mercury (Hg)	USEPA 7473	mg/L	0.005	≤0.2	ND	
Benzene	USEPA 8260D	mg/L	0.0005	≤0.5	ND	
Carbon tetrachloride	USEPA 8260D	mg/L	0.0005	≤0.5	ND	
Chlorobenzene	USEPA 8260D	mg/L	0.0005	≤100	ND	
Chloroform	USEPA 8260D	mg/L	0.0005	≤6	ND	
1,4-Dichlorobenzene	USEPA 8260D	mg/L	0.0005	≤7.5	ND	
1,2-Dichloroethane	USEPA 8260D	mg/L	0.0005	≤0.5	ND	
1,1-Dichloroethene	USEPA 8260D	mg/L	0.0005	≤0.7	ND	
2-butanone(MEK)	USEPA 8260D	mg/L	0.020	≤200	ND	
Tetrachloroethene	USEPA 8260D	mg/L	0.0005	≤0.7	ND	
Trichloroethene	USEPA 8260D	mg/L	0.0005	≤0.5	ND	
Vinyl chloride	USEPA 8260D	mg/L	0.0005	≤0.2	ND	
Methylphenol ¹	USEPA 8270E	mg/L	0.001	≤200	ND	
2-Methylphenol	USEPA 8270E	mg/L	0.0005	-	ND	
3&4-Methylphenol	USEPA 8270E	mg/L	0.0005	-	ND	
2,4-Dinitrotoluene	USEPA 8270E	mg/L	0.0005	≤0.13	ND	
Hexachlorobenzene	USEPA 8270E	mg/L	0.0005	≤0.13	ND	
Hexachlorobutadiene	USEPA 8270E	mg/L	0.0005	≤0.5	ND	
Hexachloroethane	USEPA 8270E	mg/L	0.0005	≤3	ND	
Nitrobenzene	USEPA 8270E	mg/L	0.0005	≤2	ND	
Pentachlorophenol	USEPA 8270E	mg/L	0.0025	≤100	ND	
Pyridine	USEPA 8270E	mg/L	0.002	≤5.0	ND	
2,4,5-Trichlorophenol	USEPA 8270E	mg/L	0.0005	≤400	ND	
2,4,6-Trichlorophenol	USEPA 8270E	mg/L	0.0005	≤2	ND	
Chlordane(Total) ²	USEPA 8270E	mg/L	0.001	≤0.03	ND	
Endrin	USEPA 8270E	mg/L	0.0005	≤0.02	ND	
γ-BHC	USEPA 8270E	mg/L	0.0005	≤0.4	ND	
Toxaphene	USEPA 8270E	mg/L	0.050	≤0.5	ND	
γ-Chlordane	USEPA 8270E	mg/L	0.0005	-	ND	
α-Chlordane	USEPA 8270E	mg/L	0.0005	-	ND	
Methoxychlor	USEPA 8270E	mg/L	0.0005	≤10	ND	
Heptachlor	USEPA 8270E	mg/L	0.0005	≤0.008	ND	
2,4-D*	USEPA 8151A	mg/L	0.0005	≤10	ND	
2,4,5-TP (Silvex, Fenopop)	USEPA 8151A	mg/L	0.0005	≤1	ND	

Remark:

- 1.Methylphenol are the sum of 2-Methylphenol and 3&4-Methylphenol
- 2.Chlordane(Total) are the sum of α-Chlordane and γ-Chlordane
- 3.Preparative method:USEPA1311-1992(Toxicity Characteristic Leaching Procedure)
- 4.The Limits comes from CFR(code of federal regulations) title 40 part 261.24
- 5.CS7x: x=N or L, according to manufacturing's product name



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Method List

USEPA 200.8-1994 Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry
USEPA 7473-2007 Metals-Hg
USEPA 8260D-2018 VOCs
USEPA 8270E-2018 SVOCs
USEPA 8151A-1996 Acid Herbicides in Water by GC-MS



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t (86-21) 61072828 f (86-21) 61152164
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Method:USEPA 200.8-1994

Equipment Name	Model	Equipment Number	Serial Number
ICP-MS	Agilent 7900	CHEM-998	JP16311502

Method:USEPA 7473-2007

Equipment Name	Model	Equipment Number	Serial Number
Hg analyzer	Milestone DMA-80	CHEM-958	16041979

Method:USEPA 8260D-2018

Equipment Name	Model	Equipment Number	Serial Number
PT-GC-MS	Agilent TWR-AQUA100/7890B/5977B	chem-979	US16083002/CN16243106/US1623M026

Method:USEPA 8270E-2018

Equipment Name	Model	Equipment Number	Serial Number
GC-MS	Agilent 7890B/5977A	CHEM-1118	CN18053182/US1805M023

Method:USEPA 8270E-2018

Equipment Name	Model	Equipment Number	Serial Number
GC-MS	Agilent 7890B/5977A	CHEM-1118	CN18053182/US1805M023

Method:USEPA 8151A-1996

Equipment Name	Model	Equipment Number	Serial Number
GC-MS	Agilent6890N/5973i	CHEM-126	US144004/CN10539052/US52411034



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Method Blank(MB)

Parameter	Batch ID	Unit	MDL	MB	Control Range
Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994					
Arsenic (As)	LB2311671	mg/L	0.050	<0.050	<0.050
Barium (Ba)	LB2311671	mg/L	0.010	<0.01	<0.010
Cadmium (Cd)	LB2311671	mg/L	0.001	<0.001	<0.001
Chromium (Cr)	LB2311671	mg/L	0.010	<0.01	<0.010
Lead (Pb)	LB2311671	mg/L	0.010	<0.010	<0.010
Selenium (Se)	LB2311671	mg/L	0.050	<0.050	<0.050
Silver (Ag)	LB2311671	mg/L	0.010	<0.010	<0.010
Metals-Hg Method: USEPA 7473-2007					
Mercury (Hg)	LB2311451	mg/L	0.005	<0.005	<0.005
Acid Herbicides in Water by GC-MS Method: USEPA 8151A-1996					
2,4-D	LB2311761	mg/L	0.0005	<0.0005	<0.0005
2,4,5-TP (Silvex, Fenopop)	LB2311761	mg/L	0.0005	<0.0005	<0.0005
VOCs Method: USEPA 8260D-2018					
Benzene	LB2311764	mg/L	0.0005	<0.0005	<0.0005
Carbon tetrachloride	LB2311764	mg/L	0.0005	<0.0005	<0.0005
Chlorobenzene	LB2311764	mg/L	0.0005	<0.0005	<0.0005
Chloroform	LB2311764	mg/L	0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	LB2311764	mg/L	0.0005	<0.0005	<0.0005
1,2-Dichloroethane	LB2311764	mg/L	0.0005	<0.0005	<0.0005
1,1-Dichloroethene	LB2311764	mg/L	0.0005	<0.0005	<0.0005
2-butanone(MEK)	LB2311764	mg/L	0.020	<0.020	<0.020
Tetrachloroethene	LB2311764	mg/L	0.0005	<0.0005	<0.0005
Trichloroethene	LB2311764	mg/L	0.0005	<0.0005	<0.0005
Vinyl chloride	LB2311764	mg/L	0.0005	<0.0005	<0.0005
SVOCs Method: USEPA 8270E-2018					
2-Methylphenol	LB2311607	mg/L	0.0005	<0.0005	<0.0005
3&4-Methylphenol	LB2311607	mg/L	0.0005	<0.0005	<0.0005
2,4-Dinitrotoluene	LB2311607	mg/L	0.0005	<0.0005	<0.0005
Hexachlorobenzene	LB2311607	mg/L	0.0005	<0.0005	<0.0005
Hexachlorobutadiene	LB2311607	mg/L	0.0005	<0.0005	<0.0005
Hexachloroethane	LB2311607	mg/L	0.0005	<0.0005	<0.0005
Nitrobenzene	LB2311607	mg/L	0.0005	<0.0005	<0.0005
Pentachlorophenol	LB2311607	mg/L	0.0025	<0.0025	<0.0025



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Method Blank(MB)

Parameter	Batch ID	Unit	MDL	MB	Control Range
SVOCs Method: USEPA 8270E-2018 (continued)					
Pyridine	LB2311607	mg/L	0.002	<0.002	<0.002
2,4,5-Trichlorophenol	LB2311607	mg/L	0.0005	<0.0005	<0.0005
2,4,6-Trichlorophenol	LB2311607	mg/L	0.0005	<0.0005	<0.0005
SVOCs Method: USEPA 8270E-2018					
Endrin	LB2311615	mg/L	0.0005	<0.0005	<0.0005
γ-BHC	LB2311615	mg/L	0.0005	<0.0005	<0.0005
Toxaphene	LB2311615	mg/L	0.050	<0.050	<0.050
γ-Chlordane	LB2311615	mg/L	0.0005	<0.0005	<0.0005
α-Chlordane	LB2311615	mg/L	0.0005	<0.0005	<0.0005
Methoxychlor	LB2311615	mg/L	0.0005	<0.0005	<0.0005
Heptachlor	LB2311615	mg/L	0.0005	<0.0005	<0.0005

The evaluation of Method Blanks (MB): All results of MB on this batch are lower than method detection limits, which meet the acceptance criteria of lab quality control.

Laboratory Control Sample(LCS)

LCS Recovery%= Result*100/ Reference Value.

Parameter	Batch ID	Unit	MDL	Result	Ref. Value	Recovery%	Control Range	
							Lower	Upper
Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994								
Arsenic (As)	LB2311671	mg/L	0.050	0.199	0.2	99.5	80%	120%
Barium (Ba)	LB2311671	mg/L	0.010	0.202	0.2	101	80%	120%
Cadmium (Cd)	LB2311671	mg/L	0.001	0.192	0.2	95.8	80%	120%
Chromium (Cr)	LB2311671	mg/L	0.010	0.189	0.2	94.6	80%	120%
Lead (Pb)	LB2311671	mg/L	0.010	0.221	0.2	111	80%	120%
Selenium (Se)	LB2311671	mg/L	0.050	0.172	0.2	86.2	80%	120%
Silver (Ag)	LB2311671	mg/L	0.010	0.200	0.2	99.8	80%	120%
Metals-Hg Method: USEPA 7473-2007								
Mercury (Hg)	LB2311451	mg/L	0.005	<0.005	0.001	96.9	80%	120%
Acid Herbicides in Water by GC-MS Method: USEPA 8151A-1996								
2,4-D	LB2311761	mg/L	0.0005	0.0010	0.001	96.0	70%	130%
2,4,5-TP (Silvex, Fenopop)	LB2311761	mg/L	0.0005	0.0008	0.001	76.0	70%	130%
VOCs Method: USEPA 8260D-2018								
Benzene	LB2311764	mg/L	0.0005	0.0202	0.02	101	70%	130%



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Laboratory Control Sample(LCS)

LCS Recovery%= Result*100/ Reference Value.

Parameter	Batch ID	Unit	MDL	Result	Ref. Value	Recovery%	Control Range	
							Lower	Upper

VOCs Method: USEPA 8260D-2018 (continued)

Carbon tetrachloride	LB2311764	mg/L	0.0005	0.0164	0.02	82.0	70%	130%
Chlorobenzene	LB2311764	mg/L	0.0005	0.0187	0.02	93.4	70%	130%
Chloroform	LB2311764	mg/L	0.0005	0.0199	0.02	99.6	70%	130%
1,4-Dichlorobenzene	LB2311764	mg/L	0.0005	0.0197	0.02	98.7	70%	130%
1,2-Dichloroethane	LB2311764	mg/L	0.0005	0.0201	0.02	100	70%	130%
1,1-Dichloroethene	LB2311764	mg/L	0.0005	0.0233	0.02	117	70%	130%
2-butanone(MEK)	LB2311764	mg/L	0.020	<0.02	0.02	89.6	70%	130%
Tetrachloroethene	LB2311764	mg/L	0.0005	0.0173	0.02	86.7	70%	130%
Trichloroethene	LB2311764	mg/L	0.0005	0.0161	0.02	80.5	70%	130%
Vinyl chloride	LB2311764	mg/L	0.0005	0.0216	0.02	108	70%	130%

SVOCs Method: USEPA 8270E-2018

2-Methylphenol	LB2311607	mg/L	0.0005	0.0042	0.005	83.0	30%	144%
3&4-Methylphenol	LB2311607	mg/L	0.0005	0.0079	0.01	79.1	30%	141%
2,4-Dinitrotoluene	LB2311607	mg/L	0.0005	0.0040	0.005	81.0	46%	140%
Hexachlorobenzene	LB2311607	mg/L	0.0005	0.0032	0.005	64.6	61%	127%
Hexachlorobutadiene	LB2311607	mg/L	0.0005	0.0017	0.005	34.8	10%	111%
Hexachloroethane	LB2311607	mg/L	0.0005	0.0036	0.005	73.0	38%	131%
Nitrobenzene	LB2311607	mg/L	0.0005	0.0039	0.005	78.6	25%	133%
Pentachlorophenol	LB2311607	mg/L	0.0025	0.0228	0.025	91.3	35%	130%
Pyridine	LB2311607	mg/L	0.002	0.002	0.005	48.8	10%	200%
2,4,5-Trichlorophenol	LB2311607	mg/L	0.0005	0.0044	0.005	89.0	40%	140%
2,4,6-Trichlorophenol	LB2311607	mg/L	0.0005	0.0048	0.005	95.6	40%	140%

The evaluation of recoveries for Laboratory Control Samples (LCS): All recoveries of LCS on this batch are in the controlled range, which meet the acceptance criteria of lab quality control.

Laboratory Duplicate(DUP)

Relative deviation(RD)%=|Sample Result -Duplicate Result|*100/(Sample Result +Duplicate Result).

Parameter	Sample ID	Unit	MDL	Sample Result	Duplicate Result	RD%	RD Control Range%	Sur Control Range
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Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994

Arsenic (As)	SHE23-01445.001	mg/L	0.050	<0.05	<0.05	0.0	≤20	-
Barium (Ba)	SHE23-01445.001	mg/L	0.010	<0.01	<0.01	0.0	≤20	-



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Laboratory Duplicate(DUP)

Relative deviation(RD)%=|Sample Result -Duplicate Result|*100/(Sample Result +Duplicate Result).

Parameter	Sample ID	Unit	MDL	Sample Result	Duplicate Result	RD%	RD Control Range%	Sur Control Range
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Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994 (continued)

Cadmium (Cd)	SHE23-01445.001	mg/L	0.001	0.009	0.008	2.8	≤20	-
Chromium (Cr)	SHE23-01445.001	mg/L	0.010	<0.01	<0.01	0.0	≤20	-
Lead (Pb)	SHE23-01445.001	mg/L	0.010	1.47	1.47	0.1	≤20	-
Selenium (Se)	SHE23-01445.001	mg/L	0.050	<0.05	<0.05	0.0	≤20	-
Silver (Ag)	SHE23-01445.001	mg/L	0.010	<0.01	<0.01	0.0	≤20	-

Metals-Hg Method: USEPA 7473-2007

Mercury (Hg)	SHE23-01445.001	mg/L	0.005	<0.005	<0.005	0.0	≤10	-
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VOCs Method: USEPA 8260D-2018

Benzene	SHE23-01445.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Carbon tetrachloride	SHE23-01445.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Chlorobenzene	SHE23-01445.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Chloroform	SHE23-01445.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
1,4-Dichlorobenzene	SHE23-01445.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
1,2-Dichloroethane	SHE23-01445.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
1,1-Dichloroethene	SHE23-01445.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
2-butanone(MEK)	SHE23-01445.001	mg/L	0.020	<0.02	<0.02	0.0	≤30	-
Tetrachloroethene	SHE23-01445.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Trichloroethene	SHE23-01445.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Vinyl chloride	SHE23-01445.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-

SVOCs Method: USEPA 8270E-2018

2-Methylphenol	QCO23-00230.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
3&4-Methylphenol	QCO23-00230.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
2,4-Dinitrotoluene	QCO23-00230.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Hexachlorobenzene	QCO23-00230.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Hexachlorobutadiene	QCO23-00230.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Hexachloroethane	QCO23-00230.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Nitrobenzene	QCO23-00230.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Pentachlorophenol	QCO23-00230.001	mg/L	0.0025	<0.0025	<0.0025	0.0	≤17.5	-
Pyridine	QCO23-00230.001	mg/L	0.002	<0.002	<0.002	0.0	≤17.5	-
2,4,5-Trichlorophenol	QCO23-00230.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
2,4,6-Trichlorophenol	QCO23-00230.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-

SVOCs Method: USEPA 8270E-2018

Endrin	QCO23-00230.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
γ-BHC	QCO23-00230.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-



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Laboratory Duplicate(DUP)

Relative deviation(RD)%= $\frac{|Sample\ Result - Duplicate\ Result| * 100}{(Sample\ Result + Duplicate\ Result)}$.

Parameter	Sample ID	Unit	MDL	Sample Result	Duplicate Result	RD%	RD Control Range%	Sur Control Range
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SVOCs Method: USEPA 8270E-2018 (continued)

Toxaphene	QCO23-00230.001	mg/L	0.050	<0.05	<0.05	0.0	≤17.5	-
γ-Chlordane	QCO23-00230.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
α-Chlordane	QCO23-00230.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Methoxychlor	QCO23-00230.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Heptachlor	QCO23-00230.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-

The evaluation of Relative Deviation (RD) for Duplicates: All RD of duplicates on this batch are in the controlled range, which meet the acceptance criteria of lab quality control.

Matrix Spike(MS)

MS Recovery% = $\frac{(MS\ Result - Sample\ Result) * 100}{Spike\ Added}$ (Related factor should be taken into consideration) .

Parameter	Sample ID	Unit	MDL	Sample Result	MS Result	Spike Added	Recovery%	Control Range Lower	Control Range Upper
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Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994

Arsenic (As)	SHE23-01445.001	mg/L	0.050	<0.050	0.204	0.2	102	70%	130%
Barium (Ba)	SHE23-01445.001	mg/L	0.010	<0.010	0.218	0.2	105	70%	130%
Cadmium (Cd)	SHE23-01445.001	mg/L	0.001	0.008	0.208	0.2	99.8	70%	130%
Chromium (Cr)	SHE23-01445.001	mg/L	0.010	<0.010	0.221	0.2	106	70%	130%
Lead (Pb)	SHE23-01445.001	mg/L	0.010	1.47	1.66	0.2	94.4	70%	130%
Selenium (Se)	SHE23-01445.001	mg/L	0.050	<0.050	0.221	0.2	110	70%	130%
Silver (Ag)	SHE23-01445.001	mg/L	0.010	<0.010	0.195	0.2	97.2	70%	130%

VOCs Method: USEPA 8260D-2018

Benzene	SHE23-01445.001	mg/L	0.0005	<0.0005	0.0195	0.02	97.3	50%	150%
Carbon tetrachloride	SHE23-01445.001	mg/L	0.0005	<0.0005	0.0166	0.02	82.8	50%	150%
Chlorobenzene	SHE23-01445.001	mg/L	0.0005	<0.0005	0.0213	0.02	106	50%	150%
Chloroform	SHE23-01445.001	mg/L	0.0005	<0.0005	0.0193	0.02	96.6	50%	150%
1,4-Dichlorobenzene	SHE23-01445.001	mg/L	0.0005	<0.0005	0.0191	0.02	95.3	50%	150%
1,2-Dichloroethane	SHE23-01445.001	mg/L	0.0005	<0.0005	0.0185	0.02	92.6	50%	150%
1,1-Dichloroethene	SHE23-01445.001	mg/L	0.0005	<0.0005	0.0251	0.02	126	50%	150%
2-butanone(MEK)	SHE23-01445.001	mg/L	0.020	<0.020	<0.02	0.02	88.4	50%	150%
Tetrachloroethene	SHE23-01445.001	mg/L	0.0005	<0.0005	0.0192	0.02	96.2	50%	150%
Trichloroethene	SHE23-01445.001	mg/L	0.0005	<0.0005	0.0147	0.02	73.6	50%	150%
Vinyl chloride	SHE23-01445.001	mg/L	0.0005	<0.0005	0.0209	0.02	105	50%	150%

The evaluation of recoveries for Matrix Spiked (MS): All recoveries for MS on this batch are in the controlled range, which meet the acceptance criteria of lab quality control.



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Matrix Spike Duplicate(MSD)

Relative deviation(RD)%=|MS Recovery% -MSD Recovery%|*100/(MS Recovery%+MSD Recovery%).

Parameter	Sample ID	Unit	MDL	MS Recovery%	MSD Recovery%	RD%	RD Control Range%	Sur Control Range
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Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994

Arsenic (As)	SHE23-01445.001	mg/L	0.050	102	107	2.5	≤20	-
Barium (Ba)	SHE23-01445.001	mg/L	0.010	105	106	0.5	≤20	-
Cadmium (Cd)	SHE23-01445.001	mg/L	0.001	99.8	100	0.3	≤20	-
Chromium (Cr)	SHE23-01445.001	mg/L	0.010	106	108	0.6	≤20	-
Lead (Pb)	SHE23-01445.001	mg/L	0.010	94.4	99.4	2.6	≤20	-
Selenium (Se)	SHE23-01445.001	mg/L	0.050	110	116	2.3	≤20	-
Silver (Ag)	SHE23-01445.001	mg/L	0.010	97.2	98.2	0.6	≤20	-

VOCs Method: USEPA 8260D-2018

Benzene	SHE23-01445.001	mg/L	0.0005	97.3	100	1.6	≤30	-
Carbon tetrachloride	SHE23-01445.001	mg/L	0.0005	82.8	82.1	0.4	≤30	-
Chlorobenzene	SHE23-01445.001	mg/L	0.0005	106	107	0.1	≤30	-
Chloroform	SHE23-01445.001	mg/L	0.0005	96.6	99.5	1.5	≤30	-
1,4-Dichlorobenzene	SHE23-01445.001	mg/L	0.0005	95.3	97.8	1.3	≤30	-
1,2-Dichloroethane	SHE23-01445.001	mg/L	0.0005	92.6	101	4.2	≤30	-
1,1-Dichloroethene	SHE23-01445.001	mg/L	0.0005	126	92.5	15.1	≤30	-
2-butanone(MEK)	SHE23-01445.001	mg/L	0.020	88.4	95.2	3.7	≤30	-
Tetrachloroethene	SHE23-01445.001	mg/L	0.0005	96.2	96.2	0.0	≤30	-
Trichloroethene	SHE23-01445.001	mg/L	0.0005	73.6	77.2	2.4	≤30	-
Vinyl chloride	SHE23-01445.001	mg/L	0.0005	105	99.4	2.6	≤30	-

The evaluation of Matrix Spiked Duplicates (MSD): All recoveries for MSD on this batch are in the controlled range, which meet the acceptance criteria of lab quality control. All RD for MS and MSD on this batch are in the controlled range, which meet the acceptance criteria of lab quality control.

*** End of Report ***



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 3rd Building, No.889 Yishan Road, Xuhui District, Shanghai, China 200233 t (86-21) 61072828 f (86-21) 61152164 www.sgsgroup.com.cn
 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t (86-21) 61072828 f (86-21) 61152164 e sgs.china@sgs.com