Shane Geren
Environmental Engineer

Wacker Polysilicon North America LLC
P.O. Box 446
Charleston, TN 37310-0446
Tel. 423-780-8160
JosephShane.Geren@wacker.com

WACKER

December 15, 2021

Courtland Vice
Environmental Protection Specialist
Tennessee Department of Environment & Conservation
Division of Water Resources
William R. Snodgrass –Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243

RE: Wacker Polysilicon North America LLC
NPDES Permit No. TN0081311 Renewal
Bradley County
Charleston, Tennessee

Dear Mr. Vice:

As required in Part II. Section A.1. of NPDES Permit number TN0081311, Wacker is submitting for review the following NPDES permit renewal package. No modifications or revisions are being proposed or requested. If you have any questions, please contact me at (423) 780-8160 or Jeremy Copeland at (423) 780-7953 in my absence.

Sincerely,

Shane Geren
Environmental Engineer
Wacker Polysilicon North America LLC

cc: Sarah Terpstra (TDEC, Division of Water Resources, Nashville)

NPDES PERMIT NO. TN0081311
RENEWAL

TABLE OF CONTENTS

ITEM A. – TITLE PAGE

NPDES PERMIT No. TN0081311
RENEWAL

for
Wacker Polysilicon North America LLC

553 Wacker Boulevard NW
P.O. Box 446
Charleston, TN 37310

Bradley County, Tennessee

Latitude: 35° 17’ 43.51”
Longitude: -84° 47’ 48.08”

Existing Permitted Outfalls: 001, 002, SW1, SW2, SW2A, SW3, and SW4

ITEM B. - INTRODUCTION

1) INTRODUCTION

The original issuance date for this permit was January 2, 2012. The first discharge to the Hiwassee River occurred on June 17, 2015 via Outfall 001 and the last hardcopy Discharge Monitoring Reports (DMRs) submitted to Nashville and copied to Chattanooga occurred in March 2015. DMRs starting in April 2015 have all been completed and submitted via EPA's NetDMR.

NPDES Permit No. TN0081311 will expire on March 31, 2022. The original 180 day "Duty To Reapply" was on or prior to October 2, 2021, however on June 15, 2021 an extension request was submitted to TDEC and granted on June 30, 2021. The new "Duty To Reapply" is December 31, 2021. See attached letters and e-mails.

NPDES Permit No. TN0081311 authorizes discharges from the following outfalls;

OUTFALLS	DISCHARGE SOURCE
001	Process wastewater, non-contact cooling water, and utility water
002	Return water from river water intake
SW1, SW4	Industrial stormwater, construction stormwater, utility water, and hydrostatic testing water
SW2	Construction stormwater and utility water
SW2A, SW3	Construction stormwater, hydrostatic test water, and utility water

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Extension Request (June 15, 2021)

TDEC Approval (June 30, 2021)

Shane Geren
Environmental Engineer

Wacker Polysilicon North America LLC
P.O. Box 446
Charleston, TN 37310-0446
Tel. 423-780-8160
JosephShane.Geren@wacker.com

WACKER

June 15, 2021

Vojin Janjic
Manager, Water-Based Systems
Tennessee Department of Environment & Conservation
Division of Water Resources
William R. Snodgrass –Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243-1102
Submitted via Electronic Mail to Vojin.Janjic@tn.gov on June 15, 2021

RE: Wacker Polysilicon North America LLC
NPDES Permit No. TN0081311
Charleston, Tennessee
Bradley County

Dear Mr. Janjic:

Per phone conversation and recommendation by Mike Bascom on June 8, 2021, I would like to inform you that Wacker's fumed silica (HDK®) process plant that began construction in 2017 was completed and initially operational on October 1, 2019 but has since been shut down on a temporary basis. As a result, the HDK® plant has not yet reached design capacity or long-term production capacity. The HDK® plant has only achieved 60% production and was temporarily shut down as of October 2020 and remains so today. Restart is still undefined in terms of timing and is being conducted diligently to ensure safe restart and operations.

On page 26 of 31, of our NPDES Permit No. TN0081311, Section A. Priority Pollutants, it requires wastewater effluent testing as identified on EPA Form 3510-2C for the HDK® process plant within six (6) months after reaching design or long term production capacity and prior to the application for permit renewal deadline which is September 30, 2021.

Wacker requests that the wastewater effluent testing requirement be postponed until the HDK® plant has re-started and reached design or long-term production capacity, upon which the required wastewater effluent testing as identified on EPA Form 3510-2C will be conducted and results submitted. The above information was discussed with Mike Bascom on June 8, 2021 in which Mike recommended that this correspondence be sent to you.

If you have any questions, please contact me at (423) 780-8160 or Jeremy Copeland at (423) 780-7953 in my absence.

Sincerely,

Shane Geren
Environmental Engineer
Wacker Polysilicon North America LLC

cc: Mike Bascom (Chattanooga Field Office)

Geren, Joseph Shane

:om:	Geren, Joseph Shane
Sent:	Tuesday, June 15, 2021 7:27 AM
To:	Vojin Janjic (Vojin.Janjic@tn.gov)
Cc:	Copeland, Jeremy (Jeremy.Copeland@wacker.com); Bascom Mike (Michael.Bascom@tn.gov)
Subject:	NPDES Permit No. TN0081311
Attachments:	TN0081311_Wacker_2C.pdf

Good morning.

Please see the attached document.

If you have any questions, please don't hesitate to call me or Jeremy Copeland at 423-780-7953.

Joseph Geren
P-EHS-E/CHA

Wacker Polysilicon
North America LLC
553 Wacker Blvd NW
Charleston, TN 37310-0446, USA
Tel. +1 423 780 8160
Mobile +1 423 829 7104
josephshane.geren@wacker.com

Geren, Joseph Shane

From: Vojin Janjic <Vojin.Janjic@tn.gov>
Sent: Tuesday, June 15, 2021 12:29 PM
To: Geren, Joseph Shane; Sarah Terpstra
Cc: Copeland, Jeremy; Michael Bascom
Subject: RE: NPDES Permit No. TN0081311

Thanks, Joe

I agree with your request. We'll prepare a letter relieving Wacker from the requirement to submit a completed form 2C - under the circumstances.

Sarah Terpstra, the permit writer, will be the primary contact. Wish you a quick return to a full production mode!

Have a great day and stay safe.

TN Department of Environment & Conservation

Vojin Janjic | Manager, Water-Based Systems
Division of Water Resources
William R. Snodgrass Tennessee Tower, 11th Floor
312 Rosa L. Parks Ave, Nashville, TN 37243
p. 615-532-0670
vojin.janjic@tn.gov
tn.gov/environment

We accept and encourage electronic document submittals.
Please tell us how you think we're doing by completing this survey: ***TDEC Customer Satisfaction Survey***

From: Geren, Joseph Shane <JosephShane.Geren@wacker.com>
Sent: Tuesday, June 15, 2021 6:27 AM
To: Vojin Janjic <Vojin.Janjic@tn.gov>
Cc: Copeland, Jeremy <Jeremy.Copeland@wacker.com>; Michael Bascom <Michael.Bascom@tn.gov>
Subject: [EXTERNAL] NPDES Permit No. TN0081311

Good morning.

Please see the attached document.

If you have any questions, please don't hesitate to call me or Jeremy Copeland at 423-780-7953.

Joseph Geren
P-EHS-E/CHA

Wacker Polysilicon
North America LLC
553 Wacker Blvd NW
Charleston, TN 37310-0446, USA
Tel. +1 423 780 8160
Mobile +1 423 829 7104
josephshane.geren@wacker.com

WACKER
CREATING TOMORROW'S SOLUTIONS

Follow us on:

Thank you for your cooperation.

Geren, Joseph Shane

From: Microsoft Outlook <MicrosoftExchange329e71ec88ae4615bbc36ab6ce41109e@wacker.com>
To: Vojin Janjic (Vojin.Janjic@tn.gov); Bascom Mike (Michael.Bascom@tn.gov)
Sent: Tuesday, June 15, 2021 7:27 AM
Subject: Relayed: NPDES Permit No. TN0081311

Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:

Vojin Janjic (Vojin.Janjic@tn.gov) (Vojin.Janjic@tn.gov)

Bascom Mike (Michael.Bascom@tn.gov) (Michael.Bascom@tn.gov)

Subject: NPDES Permit No. TN0081311

Geren, Joseph Shane

From: Vojin Janjic <Vojin.Janjic@tn.gov>
To: Geren, Joseph Shane
Sent: Tuesday, June 15, 2021 10:40 AM
Subject: Read: NPDES Permit No. TN0081311

Your message

To: Vojin Janjic
Subject: [EXTERNAL] NPDES Permit No. TN0081311
Sent: Tuesday, June 15, 2021 6:27:23 AM (UTC-06:00) Central Time (US & Canada)

was read on Tuesday, June 15, 2021 9:39:37 AM (UTC-06:00) Central Time (US & Canada).

Geren, Joseph Shane

·om: Michael Bascom <Michael.Bascom@tn.gov>
To: Geren, Joseph Shane
Sent: Tuesday, June 15, 2021 8:37 AM
Subject: Read: NPDES Permit No. TN0081311

Your message

To: Michael Bascom
Subject: [EXTERNAL] NPDES Permit No. TN0081311
Sent: Tuesday, June 15, 2021 6:27:23 AM (UTC-06:00) Central Time (US & Canada)

was read on Tuesday, June 15, 2021 7:36:50 AM (UTC-06:00) Central Time (US & Canada).

State of Tennessee
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES
William R. Snodgrass - Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243-1102

June 30, 2021

Mr. Joseph Shane Geren
Environmental Engineer
Wacker Polysilicon North America, LLC
e-copy: josephshane.geren@wacker.com
553 Wacker Blvd
Charleston, TN 37310

Subject: **NPDES Permit No. TN0081311 – Form 2C Extension Granted**
Wacker Polysilicon North America, LLC
Charleston, Bradley County, Tennessee

Dear Mr. Geren:

Thank you for your correspondence on June 15, 2021. In your letter, you requested a waiver for wastewater effluent testing required by application Form 2C, which is due with other application materials by September 30, 2021. You stated that Wacker's fumed silica process plant has been shut down on a temporary basis as of October 2020. You requested that the effluent testing required by Form 2C be postponed until the plant has been re-started and reached design or long-term capacity, at which time the required testing shall be conducted and results submitted to the Division of Water Resources (Division).

In a call on June 29, 2021, Mr. Jeremy Copeland stated that process wastewater from the original production line is still discharging through Outfall 001, and that Wacker anticipates that the fumed silica process plant is anticipated to be restarted by the end of the year.

Therefore, based on this anticipated timeline, the Division will grant an extension for the submittal of all application materials until December 31, 2021. This will ensure that any effluent testing required by Form 2C conducted on Outfall 001 effluent will be more representative of anticipated final effluent concentrations than current conditions.

We encourage electronic submittals. All application materials and required testing results should be submitted to the email address Water.Permits@tn.gov.

If you have questions, please contact the Chattanooga Environmental Field Office at 1-888-891-TDEC; or, at this office, please contact Ms. Sarah Terpstra at (615) 532-3634 or by E-mail at *Sarah.Terpstra@tn.gov*.

Sincerely,

Vojin Janjić
Manager, Water-Based Systems

cc: Permit File
Chattanooga Environmental Field Office
Mr. Jeremy Copeland, Environmental Manager, jeremy.copeland@wacker.com
Ms. Mary Beth Hudson, Vice President and Site Manager, marybeth.hudson@wacker.com

Geren, Joseph Shane

From: Sarah Terpstra <Sarah.Terpstra@tn.gov>
Sent: Thursday, July 1, 2021 12:45 PM
To: Geren, Joseph Shane
Cc: Copeland, Jeremy
Subject: RE: TN0081311 - Wacker Polysilicon North America, LLC - Form 2C Extension granted
Attachments: CN-1090 Permit Contact Information.pdf; form_1_epa_form_3510-1.pdf; form_2c_epa_form_3510-2cr.pdf

No problem!

Yes, all application materials means everything required in Part II of the permit. I find it easier than splitting the required forms – both for you and for me.

So, by December 31, you'll need to submit the following forms:

1) Form CN-1090 – Permit Contact information form
2) Form 1
3) Form 2C

I've attached those here for your convenience. As a heads up – please use the forms attached as EPA updated their forms in 2019 and we are only accepting the new forms now.

I'll update our permit contact records to remove Mary Beth Hudson. Thank you for the information.

Please don't hesitate to reach out to me if you have additional questions. I will be out on maternity leave in December and January, but someone else with our unit will be able to review the application when it comes in. I will still be your permit writer when I return from leave, though, so in the meantime I'm still happy to help.

Thank you,
Sarah

TN Department of Environment & Conservation

Sarah Terpstra | Environmental Consultant
Division of Water Resources
William R. Snodgrass TN Tower, 11th Floor
312 Rosa L. Parks Avenue, Nashville, TN 37243
Phone: 615-532-3634

We are happy to help! Please let us know how we are doing by filling out this short customer satisfaction survey.

From: Geren, Joseph Shane <JosephShane.Geren@wacker.com>
Sent: Thursday, July 1, 2021 7:21 AM
To: Sarah Terpstra <Sarah.Terpstra@tn.gov>

Cc: Copeland, Jeremy <Jeremy.Copeland@wacker.com>
Subject: [EXTERNAL] RE: TN0081311 - Wacker Polysilicon North America, LLC - Form 2C Extension granted

Thanks Sarah for the quick response.

Just to clarify we understand correctly, **"all application materials"**, means the information and forms (TN0081311 Permit Renewal) as stated in Part II, Section A., 1. Duty to Reapply.

I also wanted to bring to your attention that Mary Beth Hudson, Vice President and Site Manager, is no longer here and has been replaced by Howard Chu, V.P., Corporate Engineering & EHSS. Please replace her name in your database on all future correspondence with Howard Chu.

Thank you again.

Joseph Geren
P-EHS-E/CHA

Wacker Polysilicon
North America LLC
553 Wacker Blvd NW
Charleston, TN 37310-0446, USA
Tel. +1 423 780 8160
Mobile +1 423 829 7104
josephshane.geren@wacker.com

WACKER
CREATING TOMORROW'S SOLUTIONS

Follow us on:

From: Sarah Terpstra <Sarah.Terpstra@tn.gov>
Sent: Wednesday, June 30, 2021 2:20 PM
To: Copeland, Jeremy <Jeremy.Copeland@wacker.com>; Geren, Joseph Shane <JosephShane.Geren@wacker.com>; Hudson, Mary Beth <MaryBeth.Hudson@wacker.com>
Cc: Angela J. Hall <Angela.J.Hall@tn.gov>; Michael Bascom <Michael.Bascom@tn.gov>
Subject: TN0081311 - Wacker Polysilicon North America, LLC - Form 2C Extension granted

Good afternoon,

Please see attached for our response to your June 15th request for a waiver for sampling and reporting conditions required in application form 2C. Based on my conversation with Mr. Jeremy Copeland yesterday, we will grant an extension for submitting all application materials until December 31, 2021.

Please don't hesitate to reach out if you have any questions!

Sarah

Department of Environment & Conservation

Sarah Terpstra | Environmental Consultant
Division of Water Resources
William R. Snodgrass TN Tower, 11th Floor
312 Rosa L. Parks Avenue, Nashville, TN 37243
Phone: 615-532-3634

We are happy to help! Please let us know how we are doing by filling out this short customer satisfaction survey.

Thank you for your cooperation.

2) PAST PERMIT MODIFICATIONS

On June 26, 2014 this permit was modified to include the following;

Renew per the duty to reapply provision and modify the existing Construction Stormwater Permit NPDES Permit No. TN0081205 due to the total area of soil disturbance less than 50 acres. Deletion of SW3, SW2A, SW8, IMP1, IMP2, IMP3, IMP4, IMP5, IMP6, based on reduced exposure acreage and sufficient stormwater monitoring data performance.
Coverage of future industrial stormwater runoff associated with industrial exposures from polysilicon process.
Include future increased loading of select parameters in wastewater effluent. A three-tiered phase approach with each phase defined by specific production expansions. The tiered polysilicon production plants are identified as Poly 11, 12, and 13.
Add second outfall 002 just upstream of Outfall 001 at the river water intake structure. This water discharge will be comprised of a slipstream discharge from the river water intake that returns a small volume of water back to the river.

On July 1, 2016 this permit was modified to include the following;

Terminate and transfer two outfalls from NPDES Permit No. TN0081205 to NPDES Permit No. TN0081311.
Terminate and transfer two outfalls from NPDES Permit No. TNG670457 to NPDES Permit No. TN0081311.
Adding process water from a planned fumed silica (HDK) production process.

This application is only a request for renewal for another five (5) years. No modifications or revisions are being proposed or requested.

ITEM C. – NARRATIVE

A) NARRATIVE

a. This facility is located in Charleston, Tennessee and appears on the Charleston 7.5 minute USGS Quadrangle (see Item E.). A more specific location of this facility in Bradley County is Latitude: 35^0 17' 43.51" north and Longitude: -84^0 47' 48.08" west. Primary access to the facility is from Interstate 75, Exit 33, east on State Highway 308 (Lauderdale Memorial Highway), then left at the second traffic light onto Wacker Boulevard then left onto E-Street (Wacker's main entrance). The facility is bounded on the north by Lower River Road, on the south by North Mouse Creek Road, on the east by Wacker Boulevard and Olin, and on the west by South Mouse Creek and the South Mouse Creek Embayment.

b. A brief description of the four (4) drainage areas (see Item G., Sheet No. 1) are listed below.

1. Outfall SW1 (Drainage Area #1)

This drainage area consists of 145.56 total acres and represents 60% of the permitted area, see (Item G., Drawing No. C17.0). This area receives the majority of the industrial exposures including the Linde hydrogen plant that is co-located on Wacker's land. Water flows generally from the southeast toward the northwest and discharges at Detention Pond #1 via Outfall SW1.

2. Outfall SW2 (Drainage Area #2)

This drainage area consists of 33.21 total acres and represents 13% of the permitted area, see (Item G., Drawing No. C17.1). The drainage area flows from the north to the south, down 1st Avenue's open lined rip rap diversion ditch, through a 30" x 80' concrete culvert crossing, into the open lined rip rap diversion ditch, through a second 30" x 85' concrete culvert crossing, into the open lined rip rap diversion ditch and into Detention Pond #2. Cleveland Utilities Wastewater Division's fenced in Wacker Lift Station is located to the north of the pond. Stormwater runoff from the road leading to the Wacker Lift Station discharges into Detention Pond #2 on the north side. Stormwater then flows through a gravel filter into a 3" orifice, into a

vertical 6’ x 6’ concrete box structure, into a 24” x 56’ PVC pipe and discharges at Outfall SW2 into Wetland Mitigation Area #2 South.

3. Outfall SW3 Drainage Area #3

This drainage area consists of 55.41 total acres and represents 23% of the permitted area, see (Item G., Drawing No. C17.2). The drainage area flows from the northeast to the southwest, down E-Street, including Wacker’s fire department building, the southeast corner of Warehouse (approximately 25% of the roof water), portions of the road sections between these two buildings, the fumed silica (HDK) production process, and into Detention Pond #3. Stormwater exits Pond 3 through one of three 8” faircloth skimmers, into a 48” metal riser, into a 15” x 112’ metal pipe and discharges at Outfall SW3. Water then flows south through open hay field ditches which eventually discharge into South Mouse Creek.

4. Outfall SW4 Drainage Area #4

This drainage area consists of 9.52 total acres and represents 4% of the permitted area, see (Item G., Drawing No. C17.3). The drainage area receives water from the north side of the Linde hydrogen plant, unused graveled expansion area, and some road runoff. This area receives some industrial exposure attributed to particulate matter from the plant and loading of chemicals for boiler and water treatments. Water flows generally from the south to the north and discharges at Detention Pond #4 via Outfall SW4.

5. Outfall SW2A

This drainage area consists of 5 acres. The drainage area receives water from the former United Rentals occupied area and along Haney Road. Sediment traps and check dams are in place to control stormwater runoff.

6. Detention Pond Outlet Structures

See (Item G., Drawing No. C17.4) for the details of outlet structures for Detention Ponds #1-4.

7. Olin Chemical Leased Area

This is a separate area from the site that, after crossing a small stream north of Lower River Road, is completely owned by Olin Chemical, see (Item G., Sheet No. 2). Wacker has a lease with Olin to utilize this area of land to access the Hiwassee River for water supply (River Water Intake) and process wastewater discharge (Outfalls 001 and 002). The portion of this route that terminates at the Olin plant is utilized for the distribution of raw products (through pipes) into Wacker's facility for process and treatment needs. The portion of the route that extends to the Hiwassee River provides raw water intake and discharge of Wacker process and non-process wastewater. There are no production or industrial exposures in this section of land and no stormwater collection and treatment activities conducted by Wacker.

8. Offsite Drainage Bypass

This 3,661 foot long concrete pipe captures offsite drainage from the undeveloped, wooded, Olin property; stabilized future railroad bed; and SW4 where it then discharges into the South Mouse Creek Embayment, see (Item G., Sheet No. 7).

9. Sampling Data

- The HDK plant has not yet reached design capacity or long-term production capacity. The plant has only achieved 60% production and was temporarily shut down as of October 2020 and remains so still. Restart is anticipated in March 2022 and is being conducted diligently to ensure safe restart and operations. The analytical data from Outfall 001 is not reflective of effluent from the HDK plant.
- TDEC authorized analytical sampling as indicated in Table B, EPA Form 3510-2C (Revised 3-19) by omitting of sampling for constituents believed not present because facility rated as minor discharger and secondary industrial classification without an effluent limitation guideline.
- The COD value reported on Form 3510-2C is believed to be artificially elevated due to the presence of chloride compounds in the wastewater. The test method SM5220C requires use of potassium dichromate and can result in a falsely elevated value. Wacker is currently researching alternate test methods with a third party lab to more accurately represent the true value.

ITEM D. – PERMIT CONTACT INFORMATION (CN-1090)

STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES
Water-Based Systems
William R. Snodgrass - Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, TN 37243-1102

PERMIT CONTACT INFORMATION

Please complete all sections. If one person serves multiple functions, please repeat this information in each section.

PERMIT NUMBER: TN0081311 **DATE:** 12/25/2021

PERMITTED FACILITY: Wacker Polysilicon North America LLC **COUNTY:** Bradley

OFFICIAL PERMIT CONTACT:

(The permit signatory authority, e.g. responsible corporate officer, principle executive officer or ranking elected official)

Official Contact: Ken Collins	Title or Position: Senior Director, Site Leader		
Mailing Address: 553 Wacker Blvd. NW	City: Charleston	State: TN	Zip: 37310
Phone number(s): 423-780-8800	E-mail: Ken.Collins@wacker.com		

PERMIT BILLING ADDRESS (where invoices should be sent):

Billing Contact: Jeremy Copeland	Title or Position: Environmental Manager		
Mailing Address: 553 Wacker Blvd. NW., P.O. Box 446	City: Charleston	State: TN	Zip: 37310
Phone number(s): 423-780-7953	E-mail: Jeremy.Copeland@wacker.com		

FACILITY LOCATION (actual location of permit site and local contact for site activity):

Facility Location Contact: Jeremy Copeland	Title or Position: Environmental Manager		
Facility Location (physical street address): 553 Wacker Blvd. NW	City: Charleston	State: TN	Zip: 37310
Phone number(s): 423-780-7953	E-mail: Jeremy.Copeland@wacker.com		

Alternate Contact (if desired): Joseph Shane Geren	Title or Position: Environmental Engineer		
Mailing Address: 553 Wacker Blvd. NW	City: Charleston	State: TN	Zip: 37310
Phone number(s): 423-780-8160	E-mail: JosephShane.Geren@wacker.com		

FACILITY REPORTING (Discharge Monitoring Report (DMR) or other reporting):

Cognizant Official authorized for permit reporting: Jeremy Copeland	Title or Position: Environmental Manager		
Mailing Address: 553 Wacker Blvd. NW	City: Charleston	State: TN	Zip: 37310
Phone number(s): 423-780-7953	E-mail: Jeremy.Copeland@wacker.com		
Fax number for reporting: N/A	Does the facility have interest in starting electronic DMR reporting? Yes No Yes. Started in March 2015.		

ITEM E. – EPA FORM 1 & LOCATION MAP

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
TNR000040493	TN0081311	Wacker Polysilicon N.A. LLC	

Form 1 NPDES

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

GENERAL INFORMATION

SECTION 1. ACTIVITIES REQUIRING AN NPDES PERMIT (40 CFR 122.21(f) and (f)(1))

Activities Requiring an NPDES Permit

1.1 Applicants *Not Required* to Submit Form 1

1.1.1	Is the facility a new or existing **publicly owned treatment works**? If yes, STOP. Do NOT complete Form 1. Complete Form 2A. ☑ No	1.1.2	Is the facility a new or existing **treatment works treating domestic sewage**? If yes, STOP. Do NOT complete Form 1. Complete Form 2S. ☑ No

1.2 Applicants *Required* to Submit Form 1

1.2.1	Is the facility a **concentrated animal feeding operation** or a **concentrated aquatic animal production facility?** ☐ Yes ➔ Complete Form 1 ***and*** Form 2B. ☑ No	1.2.2	Is the facility an **existing** manufacturing, commercial, mining, or silvicultural **facility** that **is currently discharging process wastewater**? ☑ Yes ➔ Complete Form 1 ***and*** Form 2C. ☐ No
1.2.3	Is the facility a **new** manufacturing, commercial, mining, or silvicultural **facility** that has **not yet commenced to discharge**? ☐ Yes ➔ Complete Form 1 ***and*** Form 2D. ☑ No	1.2.4	Is the facility a **new or existing** manufacturing, commercial, mining, or silvicultural **facility** that **discharges only nonprocess wastewater**? ☐ Yes ➔ Complete Form 1 ***and*** Form 2E. ☑ No
1.2.5	Is the facility a **new or existing facility** whose discharge is composed entirely of **stormwater associated with industrial activity** or whose discharge is composed of **both stormwater and non-stormwater**? ☑ Yes ➔ Complete Form 1 ***and*** Form 2F unless exempted by 40 CFR 122.26(b)(14)(x) or (b)(15). ☐ No		

SECTION 2. NAME, MAILING ADDRESS, AND LOCATION (40 CFR 122.21(f)(2))

Name, Mailing Address, and Location

2.1 Facility Name

Wacker Polysilicon North America LLC

2.2 EPA Identification Number

TNR000040493

2.3 Facility Contact

Name (first and last)	Title	Phone number
Jeremy Copeland	Environmental Manager	(423) 780-7953

Email address
Jeremy.Copeland@wacker.com

2.4 Facility Mailing Address

Street or P.O. box
553 Wacker Blvd. NW., P.O. Box 446

City or town	State	ZIP code
Charleston	TN	37310

Name, Mailing Address, and Location Continued

2.5 **Facility Location**

Street, route number, or other specific identifier
553 Wacker Blvd. NW., P.O. Box 446

County name	County code (if known)	
Bradley		
City or town	**State**	**ZIP code**
Charleston	TN	37310

SECTION 3. SIC AND NAICS CODES (40 CFR 122.21(f)(3))

SIC and NAICS Codes

3.1

SIC Code(s)	Description (optional)
3339	Primary Smelting and Refining of Nonferrous Metals, Except Copper and Aluminum
2819	Industrial Inorganic Chemicals, Not Elsewhere Classified

3.2

NAICS Code(s)	Description (optional)
331410	Nonferrous Metal (except Aluminum) Smelting and Refining
325180	Other Basic Inorganic Chemical Manufacturing

SECTION 4. OPERATOR INFORMATION (40 CFR 122.21(f)(4))

Operator Information

4.1 **Name of Operator**

Wacker Polysilicon North America LLC

4.2 Is the name you listed in Item 4.1 also the owner?

☑ Yes ☐ No

4.3 **Operator Status**

☐ Public—federal ☐ Public—state ☐ Other public (specify)_____
☑ Private ☐ Other (specify) _____

4.4 **Phone Number of Operator**

(423) 780-8800

Operator Information Continued

4.5 **Operator Address**

Street or P.O. Box
553 Wacker Blvd. NW., P.O. Box 446

City or town	State	ZIP code
Charleston	TN	37310

Email address of operator
Jeremy.Copeland@wacker.com

SECTION 5. INDIAN LAND (40 CFR 122.21(f)(5))

Indian Land

5.1 Is the facility located on Indian Land?

☐ Yes ☑ No

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
TNR000040493	TN0081311	Wacker Polysilicon N.A. LLC	

SECTION 6. EXISTING ENVIRONMENTAL PERMITS (40 CFR 122.21(f)(6))

Existing Environmental Permits

6.1 **Existing Environmental Permits** (check all that apply and print or type the corresponding permit number for each)

☑ NPDES (discharges to surface water) TN0081311	☑ RCRA (hazardous wastes) TNR000040493	☐ UIC (underground injection of fluids)
☐ PSD (air emissions) See attached list	☐ Nonattainment program (CAA)	☐ NESHAPs (CAA)
☐ Ocean dumping (MPRSA)	☐ Dredge or fill (CWA Section 404)	☑ Other (specify) See attached list

SECTION 7. MAP (40 CFR 122.21(f)(7))

Map

7.1 Have you attached a topographic map containing all required information to this application? (See instructions for specific requirements.)

☑ Yes ☐ No ☐ CAFO—Not Applicable (See requirements in Form 2B.)

SECTION 8. NATURE OF BUSINESS (40 CFR 122.21(f)(8))

Nature of Business

8.1 Describe the nature of your business.

The primary purpose of the facility is the production of hyperpure polycrystalline silicon as a raw material supplier to both the solar and semiconductor industries.

The fumed silica (HDK) production process uses by-product chlorosilanes to produce HDK.

SECTION 9. COOLING WATER INTAKE STRUCTURES (40 CFR 122.21(f)(9))

Cooling Water Intake Structures

9.1 Does your facility use cooling water?

☑ Yes ☐ No ➔ SKIP to Item 10.1.

9.2 Identify the source of cooling water. (Note that facilities that use a cooling water intake structure as described at 40 CFR 125, Subparts I and J may have additional application requirements at 40 CFR 122.21(r). Consult with your NPDES permitting authority to determine what specific information needs to be submitted and when.)

Left descending bank of Hiwassee River at RM 16.7. Wacker's withdrawal is well under the de minimus criteria presented in 0400-40-03-.04 (4) (a) 3 and has been calculated by TDEC Water Resources.

SECTION 10. VARIANCE REQUESTS (40 CFR 122.21(f)(10))

Variance Requests

10.1 Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(m)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)

☐ Fundamentally different factors (CWA Section 301(n))	☐ Water quality related effluent limitations (CWA Section 302(b)(2))
☐ Non-conventional pollutants (CWA Section 301(c) and (g))	☐ Thermal discharges (CWA Section 316(a))
☑ Not applicable	

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
TNR000040493	TN0081311	Wacker Polysilicon N.A. LLC	

SECTION 11. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

11.1 In Column 1 below, mark the sections of Form 1 that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.

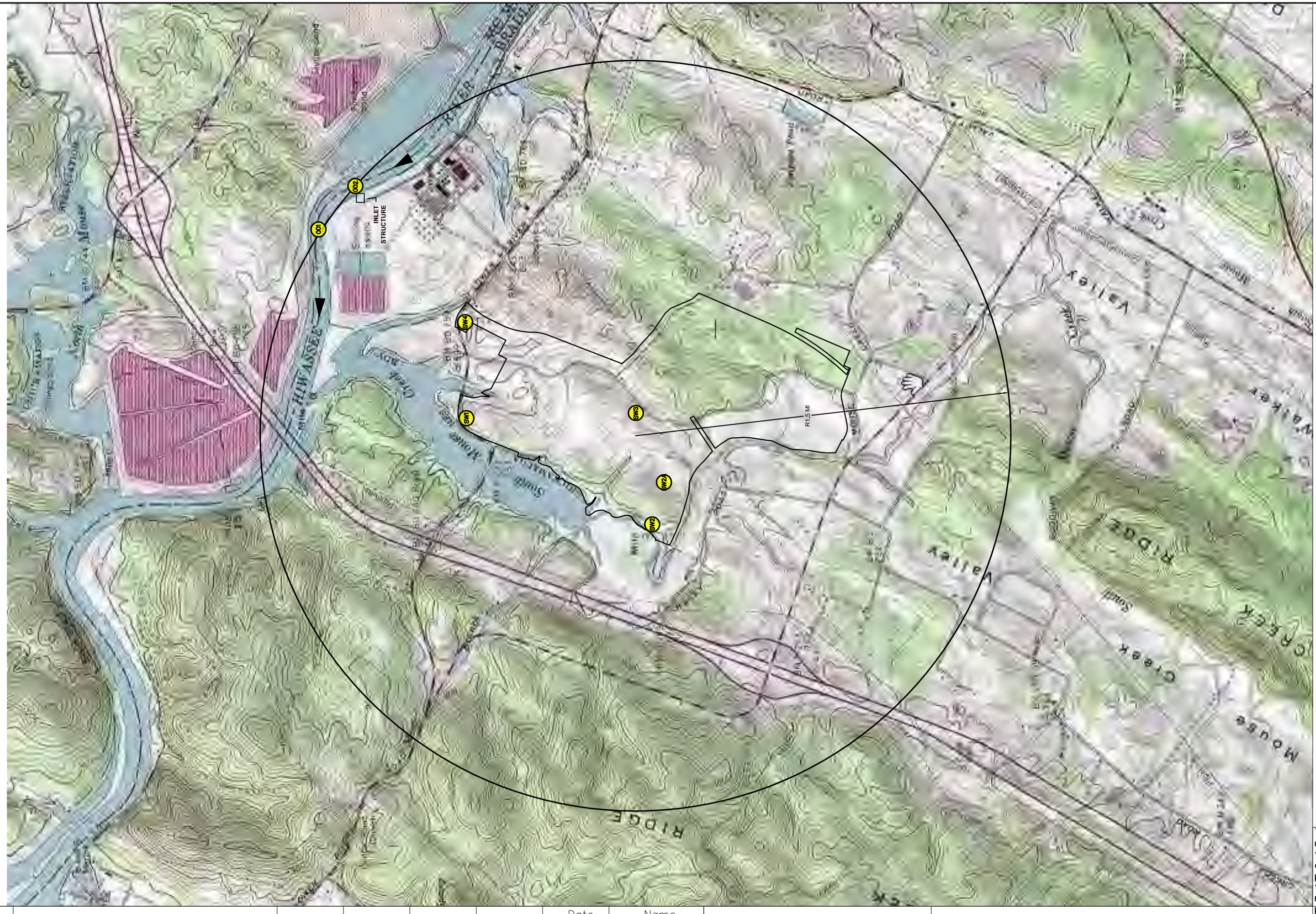
Column 1	Column 2
☑ Section 1: Activities Requiring an NPDES Permit	☐ w/ attachments
☑ Section 2: Name, Mailing Address, and Location	☐ w/ attachments
☑ Section 3: SIC Codes	☐ w/ attachments
☑ Section 4: Operator Information	☐ w/ attachments
☑ Section 5: Indian Land	☐ w/ attachments
☑ Section 6: Existing Environmental Permits	☐ w/ attachments
☑ Section 7: Map	☑ w/ topographic map ☐ w/ additional attachments
☑ Section 8: Nature of Business	☐ w/ attachments
☑ Section 9: Cooling Water Intake Structures	☐ w/ attachments
☑ Section 10: Variance Requests	☐ w/ attachments
☑ Section 11: Checklist and Certification Statement	☐ w/ attachments

11.2 **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.

Name (print or type first and last name)	Official title
Ken Collins	Senior Director, Site Leader
Signature	**Date signed**
	12/15/2021

Permit Type	Permit Number
Air (Construction – HDK Production)	978602
Air (Construction – Hydrochloric Acid (HCl) Generation	976605 (Amendment 2)
Air (Construction – Trichlorosilane (TCS) and Polysilicon (Poly Operations)	974939P (Amendment 2)
Air (Construction – Per. Maint. Cleaning of Process Tanks & Dist. Column)	972846
Air (Construction – HDK Packaging)	972476 (Amendment 1)
Air (Construction – Wastewater Treatment (WWT))	969674P
Air (Construction – Equipment Cleaning)	970065P
Air (Construction – Maintenance Activities at Chlorosilane Reaction Building)	970005P
Air (Construction – West Fire Pump)	969691P
Air (Construction – East Fire Pump)	969407P
Air (Construction – South Generator)	969455P
Air (Construction – North Generator)	967118P
Air (Construction – Natural Gas Boilers)	967203F (Amendment #5)
Insignificant Activities/Emissions	TDEC Sept. 9, 2011 letter
Insignificant Activities/Emissions	TDEC Feb. 14, 2017 letter
SPCC Rev. 9	N/A
Water Withdrawal – (ARAP)	ARAP NRS15.002-19
Land Development - (TVA 26a)	266693
Land Development - (TVA 26a)	223712
Water - (National Pollutant Discharge Elimination System (NPDES))	TN0081311
Alcohol Use - (Dept. of Treas., Alcohol and Tobacco Tax and Trade Bureau)	SDS-TN-15047
Radiological Health – (Portable Bruker)	506-0197



N

35° 17′ 54.564″ N, 84° 47′ 54.4488″ W AT
CENTER OF FACILITY

0 2000 6000

1"=2000'

REV #	DESCRIPTION	DATE	NAME	COMPANY

	Date	Name
DRAWN		
CHECKED		
APPROVED		
SCALE	1"=2000'	

Wacker Polysilicon
North America, LLC
Site Charleston Tennessee

NPDES PERMIT DRAWING

DOC. NO.: DOC#

CAD–NO:

DOCUMENT TYPE: | PAGE OF

REPLACES:

REPLACED BY:

ANSI B

DATE TIME USER DRW#

ANSI B

ITEM F. – EPA FORM 2C/2F

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
TNR000040493	TN0081311	Wacker Polysilicon N.A. LLC	

Form 2C NPDES

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS

SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))

Outfall Location

1.1 Provide information on each of the facility's outfalls in the table below.

Outfall Number	Receiving Water Name	Latitude	Longitude
001	Hiwassee River	35° 18′ 51.96″	-84° 47′ 9.32″
002	Hiwassee River	35° 18′ 41.55″	-84° 46′ 55.57″
SW1	Wet. Area to S.Mse.Cr.Emb.	35° 18′ 20.23″	-84° 47′ 53.07″

SECTION 2. LINE DRAWING (40 CFR 122.21(g)(2))

Line Drawing

2.1 Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C–1 at end of instructions for example.)

☑ Yes ☐ No

SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(g)(3))

Average Flows and Treatment

3.1 For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.

****Outfall Number**** 001

Operations Contributing to Flow

Operation	Average Flow
Process Scrubbers, Polysilicon, Chlorosilanes, Equipment	0.85824 mgd
Cleaning, HDK, Utility (Cooling Water)	0.13392 mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
Process Hydrolysis	1O, 1U, 2C, 2K	Landfill
	5E, 5Q, 5R	
Non-Contact Cooling Water	5E	

Average Flows and Treatment Continued

3.1 cont.

****Outfall Number**** 002

Operations Contributing to Flow

Operation	Average Flow
River Water Intake - Return Water	0.044 mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
Returns a portion of the river water captured in the intake		
station back to the river. It is only river water and any solids		
carried with the water. No treatment or chemicals added.		

****Outfall Number**** SW1

Operations Contributing to Flow

Operation	Average Flow
Storm water, clean potable, industrial	0.0025 mgd
(treated river water, potable quality w/ no chlorine),	mgd
clean condensate, hydrostatic tests	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
Area wash-downs (potable/industrial water), eye-wash &	1U	
safety shower water (potable), uncontaminated steam/		
compressor condensate, line flushes (potable & clean		
ind. water & all items) in Sec. 3.1.2 of TNR050000		

System Users

3.2 Are you applying for an NPDES permit to operate a privately owned treatment works?

☐ Yes ☐ No ➔ SKIP to Section 4.

3.3 Have you attached a list that identifies each user of the treatment works?

☐ Yes ☐ No

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
TNR000040493	TN0081311	Wacker Polysilicon N.A. LLC	

Form 2C NPDES

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS

SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))

Outfall Location

1.1 Provide information on each of the facility's outfalls in the table below.

Outfall Number	Receiving Water Name	Latitude	Longitude
001	Hiwassee River	35° 18′ 51.96″ N or S	-84° 47′ 9.32″ E or W
002	Hiwassee River	35° 18′ 41.55″ N or S	-84° 46′ 55.57″ E or W
SW1	Wet. Area to S.Mse.Cr.Emb.	35° 18′ 20.23″ N or S	-84° 47′ 53.07″ E or W

SECTION 2. LINE DRAWING (40 CFR 122.21(g)(2))

Line Drawing

2.1 Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C–1 at end of instructions for example.)

☑ Yes ☐ No

SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(g)(3))

Average Flows and Treatment

3.1 For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.

****Outfall Number**** 001

Operations Contributing to Flow

Operation	Average Flow
Process Scrubbers, Polysilicon, Chlorosilanes, Equipment	0.85824 mgd
Cleaning, HDK, Utility (Cooling Water)	0.13392 mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
Process Hydrolysis	1O, 1U, 2C, 2K	Landfill
	5E, 5Q, 5R	
Non-Contact Cooling Water	5E	

Average Flows and Treatment Continued

3.1 cont.

****Outfall Number**** 002

Operations Contributing to Flow

Operation	Average Flow
River Water Intake - Return Water	0.044 mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
Returns a portion of the river water captured in the intake		
station back to the river. It is only river water and any solids		
carried with the water. No treatment or chemicals added.		

****Outfall Number**** SW1

Operations Contributing to Flow

Operation	Average Flow
Storm water, clean potable, industrial	0.0025 mgd
(treated river water, potable quality w/ no chlorine),	mgd
clean condensate, hydrostatic tests	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
Area wash-downs (potable/industrial water), eye-wash &	1U	
safety shower water (potable), uncontaminated steam/		
compressor condensate, line flushes (potable & clean		
ind. water & all items) in Sec. 3.1.2 of TNR050000		

System Users

3.2 Are you applying for an NPDES permit to operate a privately owned treatment works?

☐ Yes ☐ No ➔ SKIP to Section 4.

3.3 Have you attached a list that identifies each user of the treatment works?

☐ Yes ☐ No

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
TNR000040493	TN0081311	Wacker Polysilicon N.A. LLC	

Form 2C NPDES

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS

SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))

Outfall Location

1.1 Provide information on each of the facility's outfalls in the table below.

Outfall Number	Receiving Water Name	Latitude	Longitude
001	Hiwassee River	35° 18′ 51.96″ N or S	-84° 47′ 9.32″ E or W
002	Hiwassee River	35° 18′ 41.55″ N or S	-84° 46′ 55.57″ E or W
SW1	Wet. Area to S.Mse.Cr.Emb.	35° 18′ 20.23″ N or S	-84° 47′ 53.07″ E or W

SECTION 2. LINE DRAWING (40 CFR 122.21(g)(2))

Line Drawing

2.1 Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C–1 at end of instructions for example.)

☑ Yes ☐ No

SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(g)(3))

Average Flows and Treatment

3.1 For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.

****Outfall Number**** 001

Operations Contributing to Flow

Operation	Average Flow
Process Scrubbers, Polysilicon, Chlorosilanes, Equipment	0.85824 mgd
Cleaning, HDK, Utility (Cooling Water)	0.13392 mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
Process Hydrolysis	1O, 1U, 2C, 2K	Landfill
	5E, 5Q, 5R	
Non-Contact Cooling Water	5E	

Average Flows and Treatment Continued

3.1 cont.

****Outfall Number**** 002

Operations Contributing to Flow

Operation	Average Flow
River Water Intake - Return Water	0.044 mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
Returns a portion of the river water captured in the intake		
station back to the river. It is only river water and any solids		
carried with the water. No treatment or chemicals added.		

****Outfall Number**** SW1

Operations Contributing to Flow

Operation	Average Flow
Storm water, clean potable, industrial	0.0025 mgd
(treated river water, potable quality w/ no chlorine),	mgd
clean condensate, hydrostatic tests	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
Area wash-downs (potable/industrial water), eye-wash &	1U	
safety shower water (potable), uncontaminated steam/		
compressor condensate, line flushes (potable & clean		
ind. water & all items) in Sec. 3.1.2 of TNR050000		

System Users

3.2 Are you applying for an NPDES permit to operate a privately owned treatment works?

☐ Yes ☐ No ➔ SKIP to Section 4.

3.3 Have you attached a list that identifies each user of the treatment works?

☐ Yes ☐ No

SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(g)(4))

Intermittent Flows

4.1 Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal?

☐ Yes ☑ No ➔ SKIP to Section 5.

4.2 Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.

Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
		Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days

SECTION 5. PRODUCTION (40 CFR 122.21(g)(5))

Applicable ELGs

5.1 Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility?

☐ Yes ☑ No ➔ SKIP to Section 6.

5.2 Provide the following information on applicable ELGs.

ELG Category	ELG Subcategory	Regulatory Citation

Production-Based Limitations

5.3 Are any of the applicable ELGs expressed in terms of production (or other measure of operation)?

☐ Yes ☐ No ➔ SKIP to Section 6.

5.4 Provide an actual measure of daily production expressed in terms and units of applicable ELGs.

Outfall Number	Operation, Product, or Material	Quantity per Day	Unit of Measure

SECTION 6. IMPROVEMENTS (40 CFR 122.21(g)(6))

Upgrades and Improvements

6.1 Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?

☐ Yes ☑ No ➔ SKIP to Item 6.3.

6.2 Briefly identify each applicable project in the table below.

Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates	
			Required	Projected

6.3 Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? *(optional item)*

☐ Yes ☐ No ☑ Not applicable

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(g)(7))

Effluent and Intake Characteristics

See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.

Table A. Conventional and Non-Conventional Pollutants

7.1 Are you requesting a waiver from your NPDES permitting authority for one or more of the Table A pollutants for any of your outfalls?

☐ Yes ☑ No ➔ SKIP to Item 7.3.

7.2 If yes, indicate the applicable outfalls below. Attach waiver request and other required information to the application.

Outfall Number _____ Outfall Number _____ Outfall Number _____

7.3 Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?

☑ Yes ☐ No; a waiver has been requested from my NPDES permitting authority for all pollutants at all outfalls.

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants

7.4 Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C-3? (See end of instructions for exhibit.)

☑ Yes ☐ No ➔ SKIP to Item 7.8.

7.5 Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?

☑ Yes ☐ No

7.6 List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C-3.

Primary Industry Category	Required GC/MS Fraction(s) (Check applicable boxes.)			
Nonferrous metals manufacturing	☑ Volatile	☑ Acid	☑ Base/Neutral	☑ Pesticide
	☐ Volatile	☐ Acid	☐ Base/Neutral	☐ Pesticide
	☐ Volatile	☐ Acid	☐ Base/Neutral	☐ Pesticide

Effluent and Intake Characteristics Continued

7.7	Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6? ☑ Yes ☐ No
7.8	Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required? ☐ Yes ☑ No
7.9	Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge? ☑ Yes ☐ No
7.10	Does the applicant qualify for a small business exemption under the criteria specified in the instructions? ☐ Yes ➔ Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☑ No
7.11	Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? ☐ Yes ☑ No
Table C. Certain Conventional and Non-Conventional Pollutants	
7.12	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed on Table C for all outfalls? ☑ Yes ☐ No
7.13	Have you completed Table C by providing (1) quantitative data for those pollutants that are limited either directly or indirectly in an ELG and/or (2) quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? ☐ Yes ☑ No
Table D. Certain Hazardous Substances and Asbestos	
7.14	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? ☑ Yes ☐ No
7.15	Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) by providing quantitative data, if available? ☐ Yes ☑ No
Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)	
7.16	Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent? ☐ Yes ➔ Complete Table E. ☑ No ➔ SKIP to Section 8.
7.17	Have you completed Table E by reporting *qualitative* data for TCDD? ☐ Yes ☐ No

SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(g)(9))

Used or Manufactured Toxics

8.1	Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct? ☐ Yes ☑ No ➔ SKIP to Section 9.
8.2	List the pollutants below.

1.	4.	7.
2.	5.	8.
3.	6.	9.

SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(g)(11))

Biological Toxicity Tests

9.1 Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) on a receiving water in relation to your discharge?

☑ Yes ☐ No ➔ SKIP to Section 10.

9.2 Identify the tests and their purposes below.

Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
LC50 Static 48 Hr Acute Cerio & Pimep.	Permit Requirement	☑ Yes ☐ No	07/11/2019
LC50 Static 48 Hr Acute Cerio & Pimep.	Permit Requirement	☑ Yes ☐ No	09/11/2020
LC50 Static 48 Hr Acute Cerio & Pimep.	Permit Requirement	☑ Yes ☐ No	10/14/2021

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(g)(12))

Contract Analyses

10.1 Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm?

☑ Yes ☐ No ➔ SKIP to Section 11.

10.2 Provide information for each contract laboratory or consulting firm below.

	Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
Name of laboratory/firm	AIRL, Inc.		
Laboratory address	1550 37th Street, NE Cleveland, TN 37312		
Phone number	(423) 476-7766		
Pollutant(s) analyzed	BOD5, COD, TOC, Ammonia (as N), Antimony, Arsenic, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Zinc,		

SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(g)(13))

Additional Information

11.1 Has the NPDES permitting authority requested additional information?

☐ Yes ☑ No ➔ SKIP to Section 12.

11.2 List the information requested and attach it to this application.

1.	4.
2.	5.
3.	6.

SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

12.1 In Column 1 below, mark the sections of Form 2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.

Column 1	Column 2			
☑ Section 1: Outfall Location	☐ w/ attachments			
☑ Section 2: Line Drawing	☑ w/ line drawing		☐ w/ additional attachments	
☑ Section 3: Average Flows and Treatment	☐ w/ attachments		☐ w/ list of each user of privately owned treatment works	
☑ Section 4: Intermittent Flows	☐ w/ attachments			
☑ Section 5: Production	☐ w/ attachments			
☑ Section 6: Improvements	☐ w/ attachments		☐ w/ optional additional sheets describing any additional pollution control plans	
☑ Section 7: Effluent and Intake Characteristics	☐ w/ request for a waiver and supporting information		☐ w/ explanation for identical outfalls	
	☐ w/ small business exemption request		☐ w/ other attachments	
	☑ w/ Table A		☑ w/ Table B	
	☑ w/ Table C		☑ w/ Table D	
	☑ w/ Table E		☐ w/ analytical results as an attachment	
☑ Section 8: Used or Manufactured Toxics	☐ w/ attachments			
☑ Section 9: Biological Toxicity Tests	☐ w/ attachments			
☑ Section 10: Contract Analyses	☐ w/ attachments			
☑ Section 11: Additional Information	☐ w/ attachments			
☑ Section 12: Checklist and Certification Statement	☐ w/ attachments			

12.2 **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.

Name (print or type first and last name)	Official title
Ken Collins	Senior Director, Site Leader
Signature	**Date signed**
	12/15/2021

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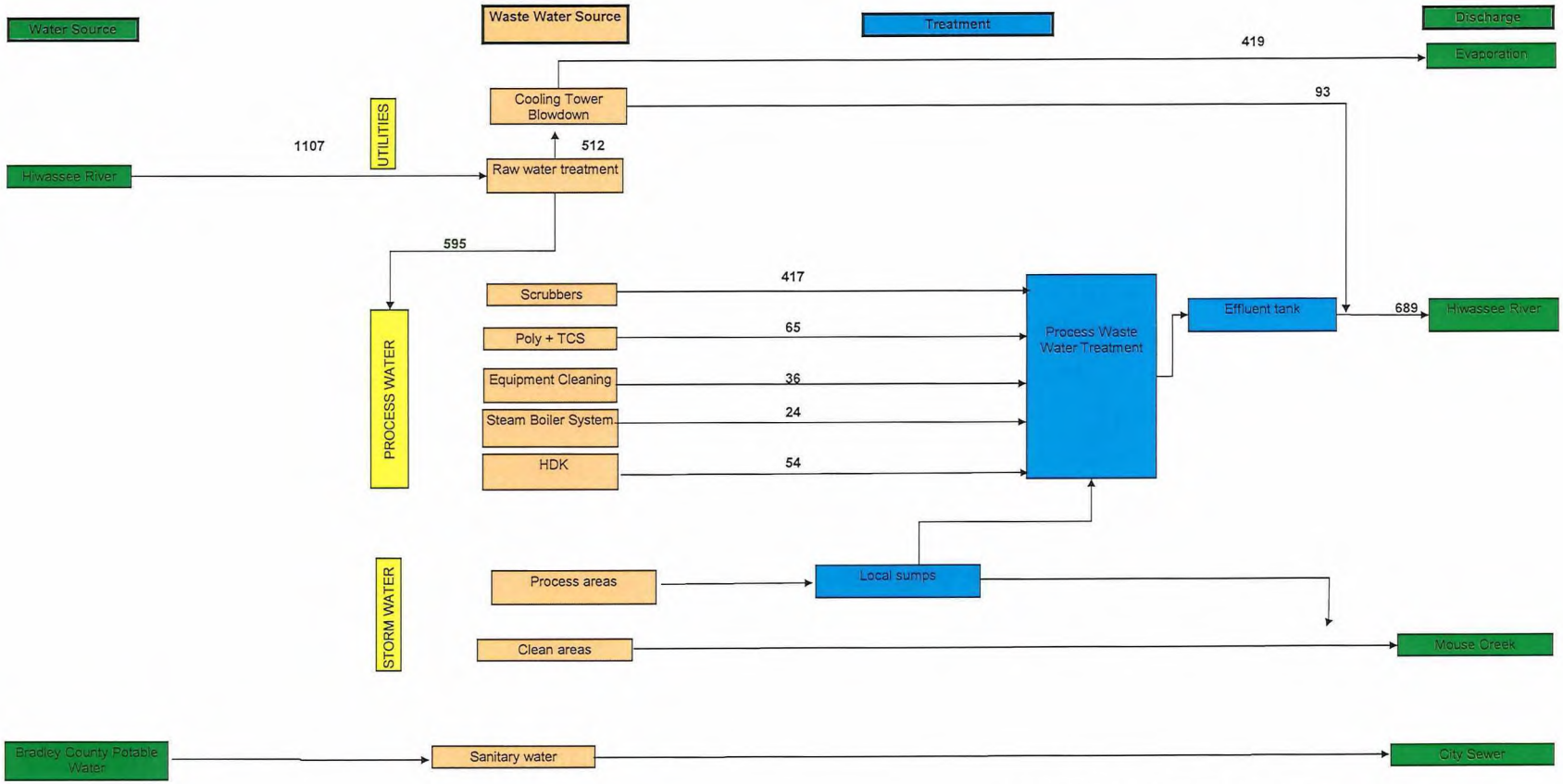

Notes: 1) All values are estimated in gallons/minute
2) Polysilicon Production capacity = 25 kilotonnes/year
3) HDK Production capacity = 13 kilotonnes/year
4) Volume is estimated based on past two years data, including a mix of measured and estimated flows
5) Values can vary significantly based on atmospheric conditions and plant needs at any given time

November 2021 Version

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TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii)) [1]

	Pollutant	Waiver Requested (if applicable)	Units (specify)		Effluent				Intake (Optional)	
					Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐	Check here if you have applied to your NPDES permitting authority for a waiver for *all* of the pollutants listed on this table for the noted outfall.									
1.	Biochemical oxygen demand (BOD_5)	☐	Concentration	mg/L	254	N/A	N/A	1	N/A	N/A
			Mass	lbs	1491	N/A	N/A	N/A	N/A	N/A
2.	Chemical oxygen demand (COD)	☐	Concentration	mg/L	502	N/A	N/A	1	N/A	N/A
			Mass	lbs	2960	N/A	N/A	N/A	N/A	N/A
3.	Total organic carbon (TOC)	☐	Concentration	mg/L	<1	N/A	N/A	1	N/A	N/A
			Mass	lbs	5.9	N/A	N/A	N/A	N/A	N/A
4.	Total suspended solids (TSS)	☐	Concentration	mg/L	3070.2	3070.2	199.3	669	N/A	N/A
			Mass	lbs	18030	18030	1156.9	N/A	N/A	N/A
5.	Ammonia (as N)	☐	Concentration	mg/L	<1	N/A	N/A	1	N/A	N/A
			Mass	lbs	5.9	N/A	N/A	N/A	N/A	N/A
6.	Flow	☐	Rate	MGD	1.02	1.02	.70	669	N/A	N/A
7.	Temperature (winter)	☐	°C	°C	22	22	14.2	92	N/A	N/A
	Temperature (summer)	☐	°C	°C	30.3	30.3	26.7	184	N/A	N/A
8.	pH (minimum)	☐	Standard units	s.u.	6.89	6.89	N/A	669	N/A	N/A
	pH (maximum)	☐	Standard units	s.u.	8.51	8.51	N/A	669	N/A	N/A

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
TNR000040493	TN0081311	Wacker Polysilicon N.A. LLC	001

Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐	Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.											
Section 1. Toxic Metals, Cyanide, and Total Phenols												
1.1	Antimony, total (7440-36-0)	☑	☑	☐	Concentration	mg/L	<0.01	N/A	N/A	1	N/A	N/A
					Mass	lbs	0.06	N/A	N/A	N/A	N/A	N/A
1.2	Arsenic, total (7440-38-2)	☑	☑	☐	Concentration	mg/L	<0.01	N/A	N/A	1	N/A	N/A
					Mass	lbs	0.06	N/A	N/A	N/A	N/A	N/A
1.3	Beryllium, total (7440-41-7)	☑	☑	☐	Concentration	mg/L	<0.01	N/A	N/A	1	N/A	N/A
					Mass	lbs	0.06	N/A	N/A	N/A	N/A	N/A
1.4	Cadmium, total (7440-43-9)	☑	☑	☐	Concentration	mg/L	<0.01	N/A	N/A	1	N/A	N/A
					Mass	lbs	0.06	N/A	N/A	N/A	N/A	N/A
1.5	Chromium, total (7440-47-3)	☑	☑	☐	Concentration	mg/L	<0.01	N/A	N/A	1	N/A	N/A
					Mass	lbs	0.06	N/A	N/A	N/A	N/A	N/A
1.6	Copper, total (7440-50-8)	☑	☑	☐	Concentration	mg/L	0.02	N/A	N/A	1	N/A	N/A
					Mass	lbs	0.01	N/A	N/A	N/A	N/A	N/A
1.7	Lead, total (7439-92-1)	☑	☑	☐	Concentration	mg/L	<0.01	N/A	N/A	1	N/A	N/A
					Mass	lbs	0.06	N/A	N/A	N/A	N/A	N/A
1.8	Mercury, total (7439-97-6)	☑	☑	☐	Concentration	mg/L	<0.0002	N/A	N/A	1	N/A	N/A
					Mass	lbs	0.0012	N/A	N/A	N/A	N/A	N/A
1.9	Nickel, total (7440-02-0)	☑	☑	☐	Concentration	mg/L	0.50	N/A	N/A	1	N/A	N/A
					Mass	lbs	2.94	N/A	N/A	N/A	N/A	N/A
1.10	Selenium, total (7782-49-2)	☑	☑	☐	Concentration	mg/L	<0.01	N/A	N/A	1	N/A	N/A
					Mass	lbs	.06	N/A	N/A	N/A	N/A	N/A
1.11	Silver, total (7440-22-4)	☑	☐	☐	Concentration	mg/L	<0.01	N/A	N/A	1	N/A	N/A
					Mass	lbs	.06	N/A	N/A	N/A	N/A	N/A

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
TNR000040493	TN0081311	Wacker Polysilicon N.A. LLC	001

Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
1.12	Thallium, total (7440-28-0)	☑	☑	☐	Concentration	mg/L	<0.01	N/A	N/A	1	N/A	N/A
					Mass	lbs	0.06	N/A	N/A	N/A	N/A	N/A
1.13	Zinc, total (7440-66-6)	☑	☑	☐	Concentration	mg/L	0.44	N/A	N/A	1	N/A	N/A
					Mass	lbs	2.58	N/A	N/A	N/A	N/A	N/A
1.14	Cyanide, total (57-12-5)	☐	☐	☑	Concentration							
					Mass							
1.15	Phenols, total	☐	☐	☑	Concentration							
					Mass							
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)												
2.1	Acrolein (107-02-8)	☐	☐	☑	Concentration							
					Mass							
2.2	Acrylonitrile (107-13-1)	☐	☐	☑	Concentration							
					Mass							
2.3	Benzene (71-43-2)	☐	☐	☑	Concentration							
					Mass							
2.4	Bromoform (75-25-2)	☐	☐	☑	Concentration							
					Mass							
2.5	Carbon tetrachloride (56-23-5)	☐	☐	☑	Concentration							
					Mass							
2.6	Chlorobenzene (108-90-7)	☐	☐	☑	Concentration							
					Mass							
2.7	Chlorodibromomethane (124-48-1)	☐	☐	☑	Concentration							
					Mass							
2.8	Chloroethane (75-00-3)	☐	☐	☑	Concentration							
					Mass							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
2.9	2-chloroethylvinyl ether (110-75-8)	☐	☐	☑	Concentration							
					Mass							
2.10	Chloroform (67-66-3)	☐	☐	☑	Concentration							
					Mass							
2.11	Dichlorobromomethane (75-27-4)	☐	☐	☑	Concentration							
					Mass							
2.12	1,1-dichloroethane (75-34-3)	☐	☐	☑	Concentration							
					Mass							
2.13	1,2-dichloroethane (107-06-2)	☐	☐	☑	Concentration							
					Mass							
2.14	1,1-dichloroethylene (75-35-4)	☐	☐	☑	Concentration							
					Mass							
2.15	1,2-dichloropropane (78-87-5)	☐	☐	☑	Concentration							
					Mass							
2.16	1,3-dichloropropylene (542-75-6)	☐	☐	☑	Concentration							
					Mass							
2.17	Ethylbenzene (100-41-4)	☐	☐	☑	Concentration							
					Mass							
2.18	Methyl bromide (74-83-9)	☐	☐	☑	Concentration							
					Mass							
2.19	Methyl chloride (74-87-3)	☐	☐	☑	Concentration							
					Mass							
2.20	Methylene chloride (75-09-2)	☐	☐	☑	Concentration							
					Mass							
2.21	1,1,2,2- tetrachloroethane (79-34-5)	☐	☐	☑	Concentration							
					Mass							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
2.22	Tetrachloroethylene (127-18-4)	☐	☐	☑	Concentration							
					Mass							
2.23	Toluene (108-88-3)	☐	☐	☑	Concentration							
					Mass							
2.24	1,2-trans-dichloroethylene (156-60-5)	☐	☐	☑	Concentration							
					Mass							
2.25	1,1,1-trichloroethane (71-55-6)	☐	☐	☑	Concentration							
					Mass							
2.26	1,1,2-trichloroethane (79-00-5)	☐	☐	☑	Concentration							
					Mass							
2.27	Trichloroethylene (79-01-6)	☐	☐	☑	Concentration							
					Mass							
2.28	Vinyl chloride (75-01-4)	☐	☐	☑	Concentration							
					Mass							
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)												
3.1	2-chlorophenol (95-57-8)	☐	☐	☑	Concentration							
					Mass							
3.2	2,4-dichlorophenol (120-83-2)	☐	☐	☑	Concentration							
					Mass							
3.3	2,4-dimethylphenol (105-67-9)	☐	☐	☑	Concentration							
					Mass							
3.4	4,6-dinitro-o-cresol (534-52-1)	☐	☐	☑	Concentration							
					Mass							
3.5	2,4-dinitrophenol (51-28-5)	☐	☐	☑	Concentration							
					Mass							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
3.6	2-nitrophenol (88-75-5)	☐	☐	☑	Concentration							
					Mass							
3.7	4-nitrophenol (100-02-7)	☐	☐	☑	Concentration							
					Mass							
3.8	p-chloro-m-cresol (59-50-7)	☐	☐	☑	Concentration							
					Mass							
3.9	Pentachlorophenol (87-86-5)	☐	☐	☑	Concentration							
					Mass							
3.10	Phenol (108-95-2)	☐	☐	☑	Concentration							
					Mass							
3.11	2,4,6-trichlorophenol (88-05-2)	☐	☐	☑	Concentration							
					Mass							
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)												
4.1	Acenaphthene (83-32-9)	☐	☐	☑	Concentration							
					Mass							
4.2	Acenaphthylene (208-96-8)	☐	☐	☑	Concentration							
					Mass							
4.3	Anthracene (120-12-7)	☐	☐	☑	Concentration							
					Mass							
4.4	Benzidine (92-87-5)	☐	☐	☑	Concentration							
					Mass							
4.5	Benzo (a) anthracene (56-55-3)	☐	☐	☑	Concentration							
					Mass							
4.6	Benzo (a) pyrene (50-32-8)	☐	☐	☑	Concentration							
					Mass							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.7	3,4-benzofluoranthene (205-99-2)	☐	☐	☑	Concentration							
					Mass							
4.8	Benzo (ghi) perylene (191-24-2)	☐	☐	☑	Concentration							
					Mass							
4.9	Benzo (k) fluoranthene (207-08-9)	☐	☐	☑	Concentration							
					Mass							
4.10	Bis (2-chloroethoxy) methane (111-91-1)	☐	☐	☑	Concentration							
					Mass							
4.11	Bis (2-chloroethyl) ether (111-44-4)	☐	☐	☑	Concentration							
					Mass							
4.12	Bis (2-chloroisopropyl) ether (102-80-1)	☐	☐	☑	Concentration							
					Mass							
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	☐	☐	☑	Concentration							
					Mass							
4.14	4-bromophenyl phenyl ether (101-55-3)	☐	☐	☑	Concentration							
					Mass							
4.15	Butyl benzyl phthalate (85-68-7)	☐	☐	☑	Concentration							
					Mass							
4.16	2-chloronaphthalene (91-58-7)	☐	☐	☑	Concentration							
					Mass							
4.17	4-chlorophenyl phenyl ether (7005-72-3)	☐	☐	☑	Concentration							
					Mass							
4.18	Chrysene (218-01-9)	☐	☐	☑	Concentration							
					Mass							
4.19	Dibenzo (a,h) anthracene (53-70-3)	☐	☐	☑	Concentration							
					Mass							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.20	1,2-dichlorobenzene (95-50-1)	☐	☐	☑	Concentration							
					Mass							
4.21	1,3-dichlorobenzene (541-73-1)	☐	☐	☑	Concentration							
					Mass							
4.22	1,4-dichlorobenzene (106-46-7)	☐	☐	☑	Concentration							
					Mass							
4.23	3,3-dichlorobenzidine (91-94-1)	☐	☐	☑	Concentration							
					Mass							
4.24	Diethyl phthalate (84-66-2)	☐	☐	☑	Concentration							
					Mass							
4.25	Dimethyl phthalate (131-11-3)	☐	☐	☑	Concentration							
					Mass							
4.26	Di-n-butyl phthalate (84-74-2)	☐	☐	☑	Concentration							
					Mass							
4.27	2,4-dinitrotoluene (121-14-2)	☐	☐	☑	Concentration							
					Mass							
4.28	2,6-dinitrotoluene (606-20-2)	☐	☐	☑	Concentration							
					Mass							
4.29	Di-n-octyl phthalate (117-84-0)	☐	☐	☑	Concentration							
					Mass							
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☐	☐	☑	Concentration							
					Mass							
4.31	Fluoranthene (206-44-0)	☐	☐	☑	Concentration							
					Mass							
4.32	Fluorene (86-73-7)	☐	☐	☑	Concentration							
					Mass							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.33	Hexachlorobenzene (118-74-1)	☐	☐	☑	Concentration							
					Mass							
4.34	Hexachlorobutadiene (87-68-3)	☐	☐	☑	Concentration							
					Mass							
4.35	Hexachlorocyclopentadiene (77-47-4)	☐	☐	☑	Concentration							
					Mass							
4.36	Hexachloroethane (67-72-1)	☐	☐	☑	Concentration							
					Mass							
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☐	☑	Concentration							
					Mass							
4.38	Isophorone (78-59-1)	☐	☐	☑	Concentration							
					Mass							
4.39	Naphthalene (91-20-3)	☐	☐	☑	Concentration							
					Mass							
4.40	Nitrobenzene (98-95-3)	☐	☐	☑	Concentration							
					Mass							
4.41	N-nitrosodimethylamine (62-75-9)	☐	☐	☑	Concentration							
					Mass							
4.42	N-nitrosodi-n-propylamine (621-64-7)	☐	☐	☑	Concentration							
					Mass							
4.43	N-nitrosodiphenylamine (86-30-6)	☐	☐	☑	Concentration							
					Mass							
4.44	Phenanthrene (85-01-8)	☐	☐	☑	Concentration							
					Mass							
4.45	Pyrene (129-00-0)	☐	☐	☑	Concentration							
					Mass							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.46	1,2,4-trichlorobenzene (120-82-1)	☐	☐	☑	Concentration							
					Mass							
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)												
5.1	Aldrin (309-00-2)	☐	☐	☑	Concentration							
					Mass							
5.2	α-BHC (319-84-6)	☐	☐	☑	Concentration							
					Mass							
5.3	β-BHC (319-85-7)	☐	☐	☑	Concentration							
					Mass							
5.4	γ-BHC (58-89-9)	☐	☐	☑	Concentration							
					Mass							
5.5	δ-BHC (319-86-8)	☐	☐	☑	Concentration							
					Mass							
5.6	Chlordane (57-74-9)	☐	☐	☑	Concentration							
					Mass							
5.7	4,4'-DDT (50-29-3)	☐	☐	☑	Concentration							
					Mass							
5.8	4,4'-DDE (72-55-9)	☐	☐	☑	Concentration							
					Mass							
5.9	4,4'-DDD (72-54-8)	☐	☐	☑	Concentration							
					Mass							
5.10	Dieldrin (60-57-1)	☐	☐	☑	Concentration							
					Mass							
5.11	α-endosulfan (115-29-7)	☐	☐	☑	Concentration							
					Mass							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
5.12	β-endosulfan (115-29-7)	☐	☐	☑	Concentration							
					Mass							
5.13	Endosulfan sulfate (1031-07-8)	☐	☐	☑	Concentration							
					Mass							
5.14	Endrin (72-20-8)	☐	☐	☑	Concentration							
					Mass							
5.15	Endrin aldehyde (7421-93-4)	☐	☐	☑	Concentration							
					Mass							
5.16	Heptachlor (76-44-8)	☐	☐	☑	Concentration							
					Mass							
5.17	Heptachlor epoxide (1024-57-3)	☐	☐	☑	Concentration							
					Mass							
5.18	PCB-1242 (53469-21-9)	☐	☐	☑	Concentration							
					Mass							
5.19	PCB-1254 (11097-69-1)	☐	☐	☑	Concentration							
					Mass							
5.20	PCB-1221 (11104-28-2)	☐	☐	☑	Concentration							
					Mass							
5.21	PCB-1232 (11141-16-5)	☐	☐	☑	Concentration							
					Mass							
5.22	PCB-1248 (12672-29-6)	☐	☐	☑	Concentration							
					Mass							
5.23	PCB-1260 (11096-82-5)	☐	☐	☑	Concentration							
					Mass							
5.24	PCB-1016 (12674-11-2)	☐	☐	☑	Concentration							
					Mass							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
5.25	Toxaphene (8001-35-2)	☐	☐	☑	Concentration							
					Mass							

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
TNR000040493	TN0081311	Wacker Polysilicon N.A. LLC	001

Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (Optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐	Check here if you believe all pollutants on Table C to be ***present*** in your discharge from the noted outfall. You need *not* complete the "Presence or Absence" column of Table C for *each* pollutant.										
☐	Check here if you believe all pollutants on Table C to be ***absent*** in your discharge from the noted outfall. You need *not* complete the "Presence or Absence" column of Table C for *each* pollutant.										
1.	Bromide (24959-67-9)	☐	☑	Concentration							
				Mass							
2.	Chlorine, total residual	☑	☐	Concentration	mg/L	0.05	N/A	N/A	1	N/A	N/A
				Mass	lbs	0.23	N/A	N/A		N/A	N/A
3.	Color	☐	☑	Concentration							
				Mass							
4.	Fecal coliform	☐	☑	Concentration							
				Mass							
5.	Fluoride (16984-48-8)	☐	☑	Concentration							
				Mass							
6	Nitrate-nitrite	☑	☐	Concentration	mg/L	0.60	N/A	N/A	1	N/A	N/A
				Mass	lbs	3.52	N/A	N/A		N/A	N/A
7.	Nitrogen, total organic (as N)	☑	☐	Concentration	mg/L	<1	N/A	N/A	1	N/A	N/A
				Mass	lbs	5.9	N/A	N/A		N/A	N/A
8.	Oil and grease	☑	☐	Concentration	mg/L	<5	N/A	N/A	1	N/A	N/A
				Mass	lbs	29.36	N/A	N/A		N/A	N/A
9.	Phosphorus (as P), total (7723-14-0)	☑	☐	Concentration	mg/L	0.62	N/A	N/A	1	N/A	N/A
				Mass	lbs	3.64	N/A	N/A		N/A	N/A
10.	Sulfate (as SO_4) (14808-79-8)	☐	☑	Concentration							
				Mass							
11.	Sulfide (as S)	☐	☑	Concentration							
				Mass							

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (Optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12.	Sulfite (as SO_3) (14265-45-3)	☐	☑	Concentration							
				Mass							
13.	Surfactants	☐	☑	Concentration							
				Mass							
14.	Aluminum, total (7429-90-5)	☑	☐	Concentration	mg/L	.20	N/A	N/A	1	N/A	N/A
				Mass	lbs	1.17	N/A	N/A		N/A	N/A
15.	Barium, total (7440-39-3)	☑	☐	Concentration	mg/L	0.03	N/A	N/A	1	N/A	N/A
				Mass	lbs	0.18	N/A	N/A		N/A	N/A
16.	Boron, total (7440-42-8)	☑	☐	Concentration	mg/L	0.14	N/A	N/A	1	N/A	N/A
				Mass	lbs	0.82	N/A	N/A		N/A	N/A
17.	Cobalt, total (7440-48-4)	☑	☐	Concentration	mg/L	<0.01	N/A	N/A	1	N/A	N/A
				Mass	lbs	0.06	N/A	N/A		N/A	N/A
18.	Iron, total (7439-89-6)	☑	☐	Concentration	mg/L	0.15	N/A	N/A	1	N/A	N/A
				Mass	lbs	0.88	N/A	N/A		N/A	N/A
19.	Magnesium, total (7439-95-4)	☑	☐	Concentration	mg/L	3.03	N/A	N/A	1	N/A	N/A
				Mass	lbs	17.79	N/A	N/A		N/A	N/A
20.	Molybdenum, total (7439-98-7)	☑	☐	Concentration	mg/L	<0.01	N/A	N/A	1	N/A	N/A
				Mass	lbs	0.06	N/A	N/A		N/A	N/A
21.	Manganese, total (7439-96-5)	☑	☐	Concentration	mg/L	0.01	N/A	N/A	1	N/A	N/A
				Mass	lbs	0.06	N/A	N/A		N/A	N/A
22.	Tin, total (7440-31-5)	☑	☐	Concentration	mg/L	<0.01	N/A	N/A	1	N/A	N/A
				Mass	lbs	0.06	N/A	N/A		N/A	N/A
23.	Titanium, total (7440-32-6)	☑	☐	Concentration	mg/L	0.01	N/A	N/A	1	N/A	N/A
				Mass	lbs	0.06	N/A	N/A		N/A	N/A

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (Optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24.	**Radioactivity**										
	Alpha, total	☐	☑	Concentration							
				Mass							
	Beta, total	☐	☑	Concentration							
				Mass							
	Radium, total	☐	☑	Concentration							
				Mass							
	Radium 226, total	☐	☑	Concentration							
				Mass							

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
1.	Asbestos	☐	☑		
2.	Acetaldehyde	☐	☑		
3.	Allyl alcohol	☐	☑		
4.	Allyl chloride	☐	☑		
5.	Amyl acetate	☐	☑		
6.	Aniline	☐	☑		
7.	Benzonitrile	☐	☑		
8.	Benzyl chloride	☐	☑		
9.	Butyl acetate	☐	☑		
10.	Butylamine	☐	☑		
11.	Captan	☐	☑		
12.	Carbaryl	☐	☑		
13.	Carbofuran	☐	☑		
14.	Carbon disulfide	☐	☑		
15.	Chlorpyrifos	☐	☑		
16.	Coumaphos	☐	☑		
17.	Cresol	☐	☑		
18.	Crotonaldehyde	☐	☑		
19.	Cyclohexane	☐	☑		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
20.	2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☑		
21.	Diazinon	☐	☑		
22.	Dicamba	☐	☑		
23.	Dichlobenil	☐	☑		
24.	Dichlone	☐	☑		
25.	2,2-dichloropropionic acid	☐	☑		
26.	Dichlorvos	☐	☑		
27.	Diethyl amine	☐	☑		
28.	Dimethyl amine	☐	☑		
29.	Dintrobenzene	☐	☑		
30.	Diquat	☐	☑		
31.	Disulfoton	☐	☑		
32.	Diuron	☐	☑		
33.	Epichlorohydrin	☐	☑		
34.	Ethion	☐	☑		
35.	Ethylene diamine	☐	☑		
36.	Ethylene dibromide	☐	☑		
37.	Formaldehyde	☐	☑		
38.	Furfural	☐	☑		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
39.	Guthion	☐	☑		
40.	Isoprene	☐	☑		
41.	Isopropanolamine	☐	☑		
42.	Kelthane	☐	☑		
43.	Kepone	☐	☑		
44.	Malathion	☐	☑		
45.	Mercaptodimethur	☐	☑		
46.	Methoxychlor	☐	☑		
47.	Methyl mercaptan	☐	☑		
48.	Methyl methacrylate	☐	☑		
49.	Methyl parathion	☐	☑		
50.	Mevinphos	☐	☑		
51.	Mexacarbate	☐	☑		
52.	Monoethyl amine	☐	☑		
53.	Monomethyl amine	☐	☑		
54.	Naled	☐	☑		
55.	Naphthenic acid	☐	☑		
56.	Nitrotoluene	☐	☑		
57.	Parathion	☐	☑		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
58.	Phenolsulfonate	☐	☑		
59.	Phosgene	☐	☑		
60.	Propargite	☐	☑		
61.	Propylene oxide	☐	☑		
62.	Pyrethrins	☐	☑		
63.	Quinoline	☐	☑		
64.	Resorcinol	☐	☑		
65.	Strontium	☐	☑		
66.	Strychnine	☐	☑		
67.	Styrene	☐	☑		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☑		
69.	TDE (tetrachlorodiphenyl ethane)	☐	☑		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☑		
71.	Trichlorofon	☐	☑		
72.	Triethanolamine	☐	☑		
73.	Triethylamine	☐	☑		
74.	Trimethylamine	☐	☑		
75.	Uranium	☐	☑		
76.	Vanadium	☐	☑		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
77.	Vinyl acetate	☐	☑		
78.	Xylene	☐	☑		
79.	Xylenol	☐	☑		
80.	Zirconium	☐	☑		

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))

Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	☐	☐	☑	

Click to go back to the beginning of Form

2Fs

SW1
SW2
SW2A
SW3
SW4

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
TNR000040493	TN0081311	Wacker Polysilicon N.A. LLC	

Form 2F NPDES

U.S Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY

SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))

Outfall Location

1.1 Provide information on each of the facility's outfalls in the table below

Outfall Number	Receiving Water Name	Latitude	Longitude
001	Hiwassee River	35° 18′ 51.96″ N or S	-84° 47′ 9.32″ E or W
002	Hiwassee River	35° 18′ 41.55″ N or S	-84° 46′ 55.57″ E or W
SW1	Wet. Area to S.Mse.Cr.Emb.	35° 18′ 20.23″ N or S	-84° 47′ 53.07″ E or W
SW3	Un. Trib. to South Mse.Cr.	35° 17′ 37.32″	-84° 47′ 54.60″
SW4	South Mouse Creek Embay	35° 18′ 22.11″	-84° 47′ 28.52″
		° ′ ″	° ′ ″

SECTION 2. IMPROVEMENTS (40 CFR 122.21(g)(6))

Improvements

2.1 Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?

☐ Yes ☑ No ➔ SKIP to Section 3.

2.2 Briefly identify each applicable project in the table below.

Brief Identification and Description of Project	Affected Outfalls (list outfall numbers)	Source(s) of Discharge	Final Compliance Dates	
			Required	Projected

2.3 Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (Optional Item)

☐ Yes ☐ No

SECTION 3. SITE DRAINAGE MAP (40 CFR 122.26(c)(1)(i)(A))

Site Drainage Map

3.1 Have you attached a site drainage map containing all required information to this application? (See instructions for specific guidance.)

☐ Yes ☐ No

SECTION 4. POLLUTANT SOURCES (40 CFR 122.26(c)(1)(i)(B))

Pollutant Sources

4.1 Provide information on the facility's pollutant sources in the table below.

Outfall Number	Impervious Surface Area (within a mile radius of the facility)		Total Surface Area Drained (within a mile radius of the facility)	
SW1	38.63	*specify units* Ac	145.56	*specify units* Ac
SW2	1.94	*specify units* Ac	33.21	*specify units* Ac
SW2A	0.0	*specify units* Ac	5.0	*specify units* Ac
SW3	3.19	*specify units* Ac	55.41	*specify units* Ac
SW4	0.00	*specify units* Ac	9.52	*specify units* Ac
		specify units		*specify units*

4.2 Provide a narrative description of the facility's significant material in the space below. (See instructions for content requirements.)

Silicon, water treatment chemicals, fuels and other petroleum fluids, small quantities of HCl and silica particulate matter and Cl2, PM, NOx, and CO from HDK.

4.3 Provide the location and a description of existing structural and non-structural control measures to reduce pollutants in stormwater runoff. (See instructions for specific guidance.)

Stormwater Treatment		
Outfall Number	**Control Measures and Treatment**	**Codes from Exhibit 2F–1** (list)
SW1	Sedimentation (settling)	1U
SW2	Sedimentation (settling)	1U
SW2A	Sedimentation (settling)	1U
SW3	Sedimentation (settling)	1U
SW4	Sedimentation (settling)	1U

SECTION 5. NON STORMWATER DISCHARGES (40 CFR 122.26(c)(1)(i)(C))

Non-Stormwater Discharges

5.1 *I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of non-stormwater discharges. Moreover, I certify that the outfalls identified as having non-stormwater discharges are described in either an accompanying NPDES Form 2C, 2D, or 2E application.*

Name (print or type first and last name)	Official title
Ken Collins	Senior Director, Site Leader
Signature	**Date signed**
	12/15/2021

5.2 Provide the testing information requested in the table below.

Outfall Number	Description of Testing Method Used	Date(s) of Testing	Onsite Drainage Points Directly Observed During Test
SW1	EPA 200.7, 245.1, 1664A, SM 5210B, 5220C, 4500-F-B, 4	10/03/2021	Yes
SW2	EPA 200.7, 245.1, 1664A, SM 5210B, 5220C, 4500-F-B, 4	10/3/2021	Yes
SW2A	EPA 200.7, 245.1, 1664A, SM 5210B, 5220C, 4500-F-B, 4	10/3/2021	Yes
SW3	EPA 200.7, 245.1, 1664A, SM 5210B, 5220C, 4500-F-B, 4	10/3/2021	Yes
SW4	EPA 200.7, 245.1, 1664A, SM 5210B, 5220C, 4500-F-B, 4	10/3/2021	Yes

SECTION 6. SIGNIFICANT LEAKS OR SPILLS (40 CFR 122.26(c)(1)(i)(D))

Significant Leaks or Spills

6.1 Describe any significant leaks or spills of toxic or hazardous pollutants in the last three years.

6/28/2019 - B300 - Citrisurf from dropped drums. Contained.
9/4/2019 - 3rd Avenue - Hydraulic fluid from forklift. Contained
1/11/2020 - B155 - Glycol from T109 compressor. Contained.
4/8/2020 - C234 - Hydraulic oil from Lull. Contained.
4/28/20 - D312 - HDK product from dumpster. Contained.
5/7/2020 - C216 - Hydraulic oil from JLG. Contained.
5/18/2020 - B352 - Wastewater from T-2 AB218. Contained.
8/14/2020- D312 - HDKN20 from silo. Contained.
9/4/2020 - B232 - Brine from AK241. Contained.
11/6/2020 - D310 - <35% HCl Acid from flange. Contained.

SECTION 7. DISCHARGE INFORMATION (40 CFR 122.26(c)(1)(i)(E))

Discharge Information

See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.

7.1 Is this a new source or new discharge?

☐ Yes ➔ See instructions regarding submission of *estimated* data.

☑ No ➔ See instructions regarding submission of *actual* data.

Tables A, B, C, and D

7.2 Have you completed Table A for each outfall?

☑ Yes ☐ No

Discharge Information Continued

7.3	Is the facility subject to an effluent limitation guideline (ELG) or effluent limitations in an NPDES permit for its process wastewater? ☐ Yes ☐ No ➔ SKIP to Item 7.5.
7.4	Have you completed Table B by providing quantitative data for those pollutants that are (1) limited either directly or indirectly in an ELG and/or (2) subject to effluent limitations in an NPDES permit for the facility's process wastewater? ☐ Yes ☐ No
7.5	Do you know or have reason to believe any pollutants in Exhibit 2F–2 are present in the discharge? ☐ Yes ☐ No ➔ SKIP to Item 7.7.
7.6	Have you listed all pollutants in Exhibit 2F–2 that you know or have reason to believe are present in the discharge and provided quantitative data or an explanation for those pollutants in Table C? ☑ Yes ☐ No
7.7	Do you qualify for a small business exemption under the criteria specified in the Instructions? ☐ Yes ➔SKIP to Item 7.18. ☐ No
7.8	Do you know or have reason to believe any pollutants in Exhibit 2F–3 are present in the discharge? ☐ Yes ☐ No ➔ SKIP to Item 7.10.
7.9	Have you listed all pollutants in Exhibit 2F–3 that you know or have reason to believe are present in the discharge in Table C? ☐ Yes ☐ No
7.10	Do you expect any of the pollutants in Exhibit 2F–3 to be discharged in concentrations of 10 ppb or greater? ☐ Yes ☐ No ➔ SKIP to Item 7.12.
7.11	Have you provided quantitative data in Table C for those pollutants in Exhibit 2F–3 that you expect to be discharged in concentrations of 10 ppb or greater? ☐ Yes ☐ No
7.12	Do you expect acrolein, acrylonitrile, 2,4-dinitrophenol, or 2-methyl-4,6-dinitrophenol to be discharged in concentrations of 100 ppb or greater? ☐ Yes ☐ No ➔ SKIP to Item 7.14.
7.13	Have you provided quantitative data in Table C for the pollutants identified in Item 7.12 that you expect to be discharged in concentrations of 100 ppb or greater? ☐ Yes ☐ No
7.14	Have you provided quantitative data or an explanation in Table C for pollutants you expect to be present in the discharge at concentrations less than 10 ppb (or less than 100 ppb for the pollutants identified in Item 7.12)? ☐ Yes ☐ No
7.15	Do you know or have reason to believe any pollutants in Exhibit 2F–4 are present in the discharge? ☐ Yes ☐ No ➔ SKIP to Item 7.17.
7.16	Have you listed pollutants in Exhibit 2F–4 that you know or believe to be present in the discharge and provided an explanation in Table C? ☐ Yes ☐ No
7.17	Have you provided information for the storm event(s) sampled in Table D? ☐ Yes ☐ No

Discharge Information Continued

Used or Manufactured Toxics

7.18 Is any pollutant listed on Exhibits 2F–2 through 2F–4 a substance or a component of a substance used or manufactured as an intermediate or final product or byproduct?

☐ Yes ☑ No ➔ SKIP to Section 8.

7.19 List the pollutants below, including TCDD if applicable.

1.	4.	7.
2.	5.	8.
3.	6.	9.

SECTION 8. BIOLOGICAL TOXICITY TESTING DATA (40 CFR 122.21(g)(11))

Biological Toxicity Testing Data

8.1 Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last three years?

☐ Yes ☐ No ➔ SKIP to Section 9. 12/25/2021

8.2 Identify the tests and their purposes below.

Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
LC50 Static 48 Hr Acute Cerio &	Permit Requirement	☑ Yes ☐ No	07/11/2019
LC50 Static 48 Hr Acute Cerio &	Permit Requirement	☑ Yes ☐ No	09/11/2020
LC50 Static 48 Hr Acute Cerio &	Permit Requirement	☑ Yes ☐ No	10/14/2021

SECTION 9. CONTRACT ANALYSIS INFORMATION (40 CFR 122.21(g)(12))

Contract Analysis Information

9.1 Were any of the analyses reported in Section 7 (on Tables A through C) performed by a contract laboratory or consulting firm?

☐ Yes ☐ No ➔ SKIP to Section 10.

9.2 Provide information for each contract laboratory or consulting firm below.

	Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
Name of laboratory/firm	AIRL, Inc.		
Laboratory address	1550 37th Street, NE Cleveland, TN 37312		
Phone number	(423) 476-7766		
Pollutant(s) analyzed	BOD5, COD, TOC, Ammonia (as N), Antimony, Arsenic, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Zinc, Chlorine total residual, Nitrate-Nitrite		

SECTION 10. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

10.1 In Column 1 below, mark the sections of Form 2F that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.

Column 1	Column 2
☑ Section 1	☐ w/ attachments (e.g., responses for additional outfalls)
☑ Section 2	☐ w/ attachments
☑ Section 3	☐ w/ site drainage map
☑ Section 4	☐ w/ attachments
☑ Section 5	☐ w/ attachments
☑ Section 6	☐ w/ attachments
☑ Section 7	☐ Table A ☐ w/ small business exemption request ☐ Table B ☐ w/ analytical results as an attachment ☐ Table C ☐ Table D
☑ Section 8	☐ w/attachments
☑ Section 9	☐ w/attachments (e.g., responses for additional contact laboratories or firms)
☑ Section 10	☐

10.2 **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.

Name (print or type first and last name)	Official title
Ken Collins	Senior Director, Site Leader
Signature 	Date signed 12/15/2021

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
TNR000040493	TN0081311	Wacker Polysilicon N.A. LLC	001

Form Approved 03/05/19
OMB No. 2040-0004

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	<5 mg/L & 183.63 lbs		N/A		1	N/A
2.	Biochemical oxygen demand (BOD_5)	8 mg/L & 293.81 lbs	N/A	N/A	N/A	1	N/A
3.	Chemical oxygen demand (COD)	94 mg/L & 3452.28 lbs	N/A	N/A	N/A	1	N/A
4.	Total suspended solids (TSS)	26 mg/L & 5607.75 lbs	N/A	N/A	N/A	1	N/A
5.	Total phosphorus	0.25 mg/L & 9.18 lbs	N/A	N/A	N/A	1	N/A
6.	Total Kjeldahl nitrogen (TKN)	<1 mg/L & 36.73 lbs	N/A	N/A	N/A	1	N/A
7.	Total nitrogen (as N)	<1 mg/L & 36.73 lbs	N/A	N/A	N/A	1	N/A
8.	pH (minimum)	7.04		N/A		1	N/A
	pH (maximum)	7.05		N/A		1	N/A

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TNR000040493	TN0081311	Wacker Polysilicon N.A. LLC	001

Form Approved 03/05/19
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List each pollutant that is limited in an effluent limitation guideline (ELG) that the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
NA	NA	NA	NA	NA	NA	NA

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(B) and (vii))[1]

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Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Antimony	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Arsenic	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Barium	0.03 mg/L & 1.10 lbs	N/A	N/A	N/A	1	N/A
Beryllium	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Boron	0.03 mg/L & 1.10 lbs	N/A	N/A	N/A	1	N/A
Cadmium	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Chromium	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Cobalt	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Lead	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Manganese	0.02 mg/L & 0.73 lbs	N/A	N/A	N/A	1	N/A
Molybdenum	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Nickel	0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Selenium	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Silver	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Thallium	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Tin	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A

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Lead	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Manganese	0.02 mg/L & 0.73 lbs	N/A	N/A	N/A	1	N/A
Molybdenum	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Nickel	0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Selenium	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Silver	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Thallium	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
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TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
	N/A	N/A	N/A	N/A	N/A

Provide a description of the method of flow measurement or estimate.
N/A

Click to go back to the beginning of Form

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
TNR000040493	TN0081311	Wacker Polysilicon N.A. LLC	001

Form Approved 03/05/19
OMB No. 2040-0004

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		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
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2.	Biochemical oxygen demand (BOD_5)	8 mg/L & 293.81 lbs	N/A	N/A	N/A	1	N/A
3.	Chemical oxygen demand (COD)	94 mg/L & 3452.28	N/A	N/A	N/A	1	N/A
4.	Total suspended solids (TSS)	26 mg/L & 5607.75	N/A	N/A	N/A	1	N/A
5.	Total phosphorus	0.25 mg/L & 9.18 lbs	N/A	N/A	N/A	1	N/A
6.	Total Kjeldahl nitrogen (TKN)	<1 mg/L & 36.73 lbs	N/A	N/A	N/A	1	N/A
7.	Total nitrogen (as N)	<1 mg/L & 36.73 lbs	N/A	N/A	N/A	1	N/A
8.	pH (minimum)	7.04		N/A		1	N/A
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Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
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Lead	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Manganese	0.02 mg/L & 0.73 lbs	N/A	N/A	N/A	1	N/A
Molybdenum	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Nickel	0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Selenium	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Silver	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Thallium	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
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	N/A	N/A	N/A	N/A	N/A

Provide a description of the method of flow measurement or estimate.

N/A

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
TNR000040493	TN0081311	Wacker Polysilicon N.A. LLC	001

Form Approved 03/05/19
OMB No. 2040-0004

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Barium	0.03 mg/L & 1.10 lbs	N/A	N/A	N/A	1	N/A
Beryllium	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Boron	0.03 mg/L & 1.10 lbs	N/A	N/A	N/A	1	N/A
Cadmium	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Chromium	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Cobalt	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Lead	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Manganese	0.02 mg/L & 0.73 lbs	N/A	N/A	N/A	1	N/A
Molybdenum	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Nickel	0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Selenium	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Silver	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Thallium	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Tin	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(B) and (vii))[1]

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Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
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Antimony	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
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Lead	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Manganese	0.02 mg/L & 0.73 lbs	N/A	N/A	N/A	1	N/A
Molybdenum	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Nickel	0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Selenium	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
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TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
	N/A	N/A	N/A	N/A	N/A

Provide a description of the method of flow measurement or estimate.

N/A

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
TNR000040493	TN0081311	Wacker Polysilicon N.A. LLC	001

Form Approved 03/05/19
OMB No. 2040-0004

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	<5 mg/L & 183.63 lbs		N/A		1	N/A
2.	Biochemical oxygen demand (BOD_5)	8 mg/L & 293.81 lbs	N/A	N/A	N/A	1	N/A
3.	Chemical oxygen demand (COD)	94 mg/L & 3452.28	N/A	N/A	N/A	1	N/A
4.	Total suspended solids (TSS)	26 mg/L & 5607.75	N/A	N/A	N/A	1	N/A
5.	Total phosphorus	0.25 mg/L & 9.18 lbs	N/A	N/A	N/A	1	N/A
6.	Total Kjeldahl nitrogen (TKN)	<1 mg/L & 36.73 lbs	N/A	N/A	N/A	1	N/A
7.	Total nitrogen (as N)	<1 mg/L & 36.73 lbs	N/A	N/A	N/A	1	N/A
8.	pH (minimum)	7.04		N/A		1	N/A
	pH (maximum)	7.05		N/A		1	N/A

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Form Approved 03/05/19
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List each pollutant that is limited in an effluent limitation guideline (ELG) that the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

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	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
NA	NA	NA	NA	NA	NA	NA

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Lead	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Manganese	0.02 mg/L & 0.73 lbs	N/A	N/A	N/A	1	N/A
Molybdenum	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Nickel	0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Selenium	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Silver	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
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	N/A	N/A	N/A	N/A	N/A

Provide a description of the method of flow measurement or estimate.

N/A

Click to go back to the beginning of Form

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
TNR000040493	TN0081311	Wacker Polysilicon N.A. LLC	001

Form Approved 03/05/19
OMB No. 2040-0004

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5.	Total phosphorus	0.25 mg/L & 9.18 lbs	N/A	N/A	N/A	1	N/A
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Manganese	0.02 mg/L & 0.73 lbs	N/A	N/A	N/A	1	N/A
Molybdenum	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Nickel	0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Selenium	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
Silver	<0.01 mg/L & 0.37 lbs	N/A	N/A	N/A	1	N/A
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	N/A	N/A	N/A	N/A	N/A

Provide a description of the method of flow measurement or estimate.

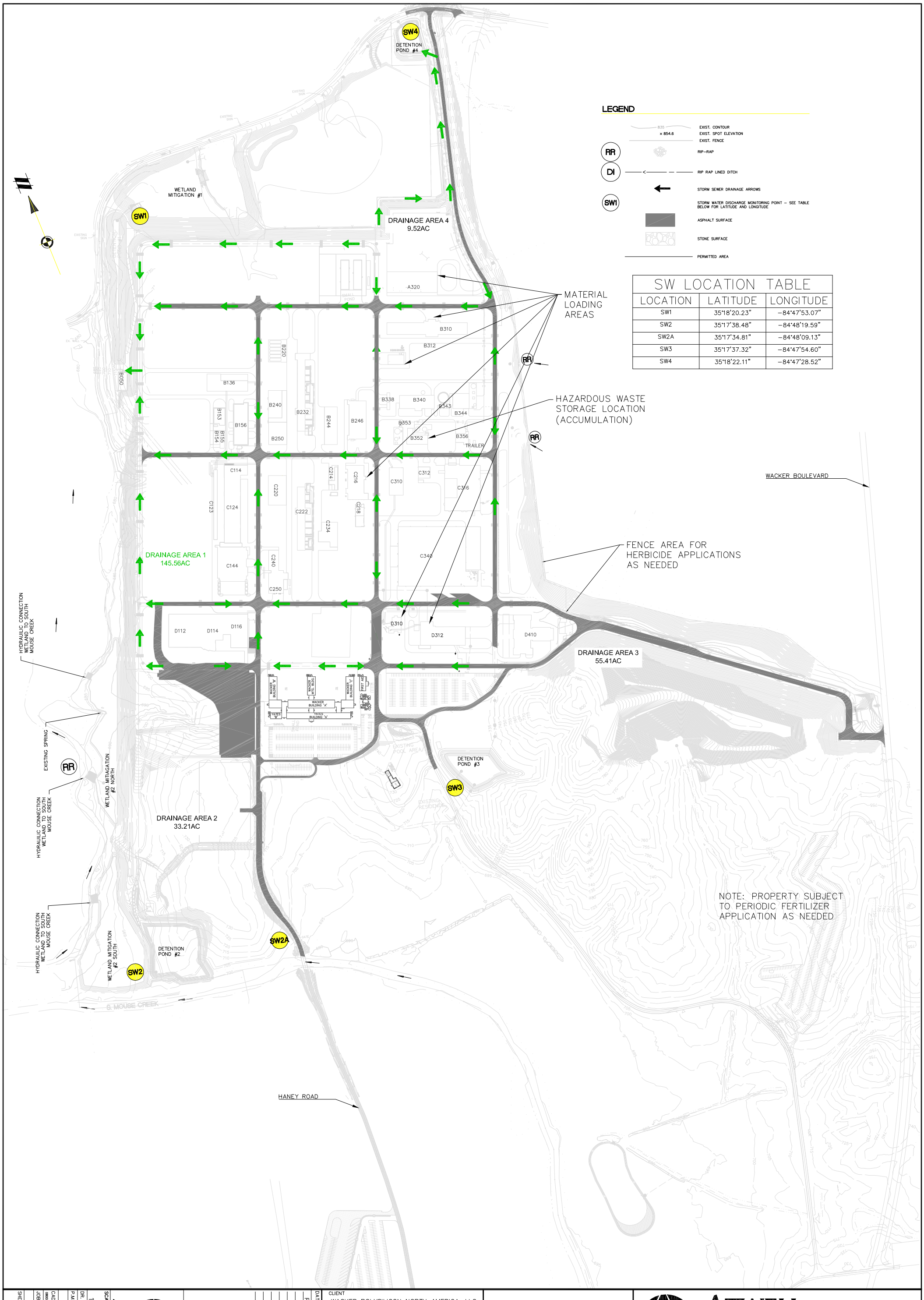
N/A

Click to go back to the beginning of Form

ITEM G. – SCHEMATIC OF WATER FLOW/DRAWING SHEETS

Under this Section, the following drawing sheets are listed:

Sheet No. 1, Site Map/Drainage Area Plan Figure 1
Drawing No. C17.0, Drainage Area 1, Detention Pond #1, Details
Drawing No. C17.1, Drainage Area 2, Detention Pond #2, Details
Drawing No. C17.2, Drainage Area 3, Detention Pond #3, Details
Drawing No. C17.3, Drainage Area 4, Detention Pond #4, Details
Drawing No. C17.4, Detention Pond Outlet Control Structure Details
Sheet No. 2, Site Map/Drainage Area Plan Figure 2
Sheet No. 7, Offsite Drainage Bypass Plan



LEGEND

- EXIST. CONTOUR (835)
- EXIST. SPOT ELEVATION (× 854.6)
- EXIST. FENCE
- RR — RIP-RAP
- DI — RIP RAP LINED DITCH
- STORM SEWER DRAINAGE ARROWS
- SW1 — STORM WATER DISCHARGE MONITORING POINT – SEE TABLE BELOW FOR LATITUDE AND LONGITUDE
- ASPHALT SURFACE
- STONE SURFACE
- PERMITTED AREA

SW LOCATION TABLE

LOCATION	LATITUDE	LONGITUDE
SW1	35°18'20.23"	-84°47'53.07"
SW2	35°17'38.48"	-84°48'19.59"
SW2A	35°17'34.81"	-84°48'09.13"
SW3	35°17'37.32"	-84°47'54.60"
SW4	35°18'22.11"	-84°47'28.52"

SHEET NO. 1

CAD FILE: 080034MNPDES-Industrial Stormwater.dwg

JOB 080034.66

P.M. M. KENDALL

DR. JDM CH.

SCALE 0 125 250
1" = 250 FEET

ATWELL

REVISIONS

DATE JUNE 20, 2014
REV 1 – 5/16/19

CLIENT
WACKER POLYSILICON NORTH AMERICA, LLC

WACKER POLY 11 TENNESSEE
STORM WATER POLLUTION
PREVENTION PLANS
SITE MAP/ DRAINAGE AREA PLAN

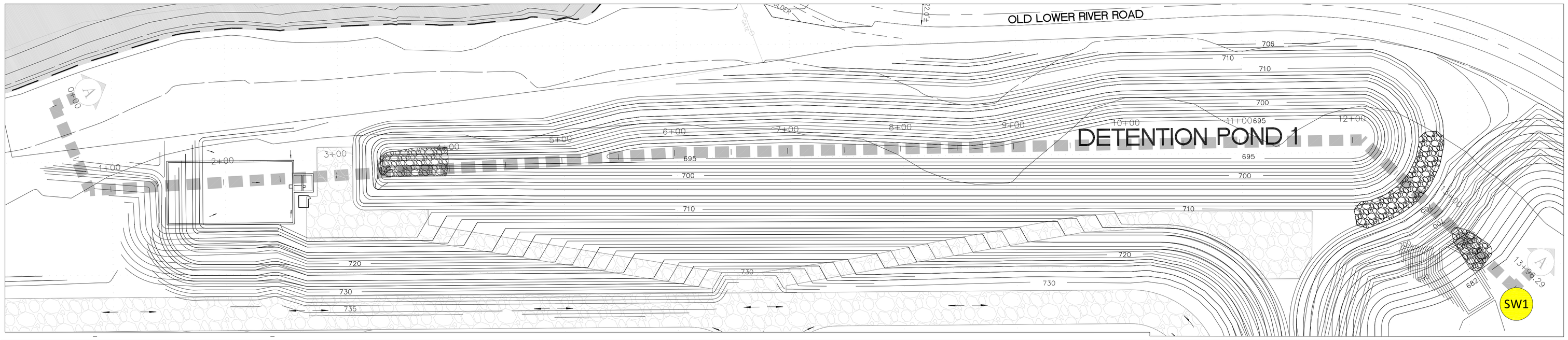
FIG. 1

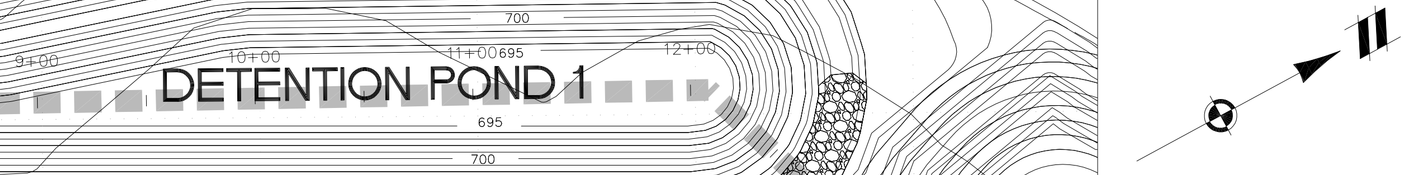
CHARLESTON

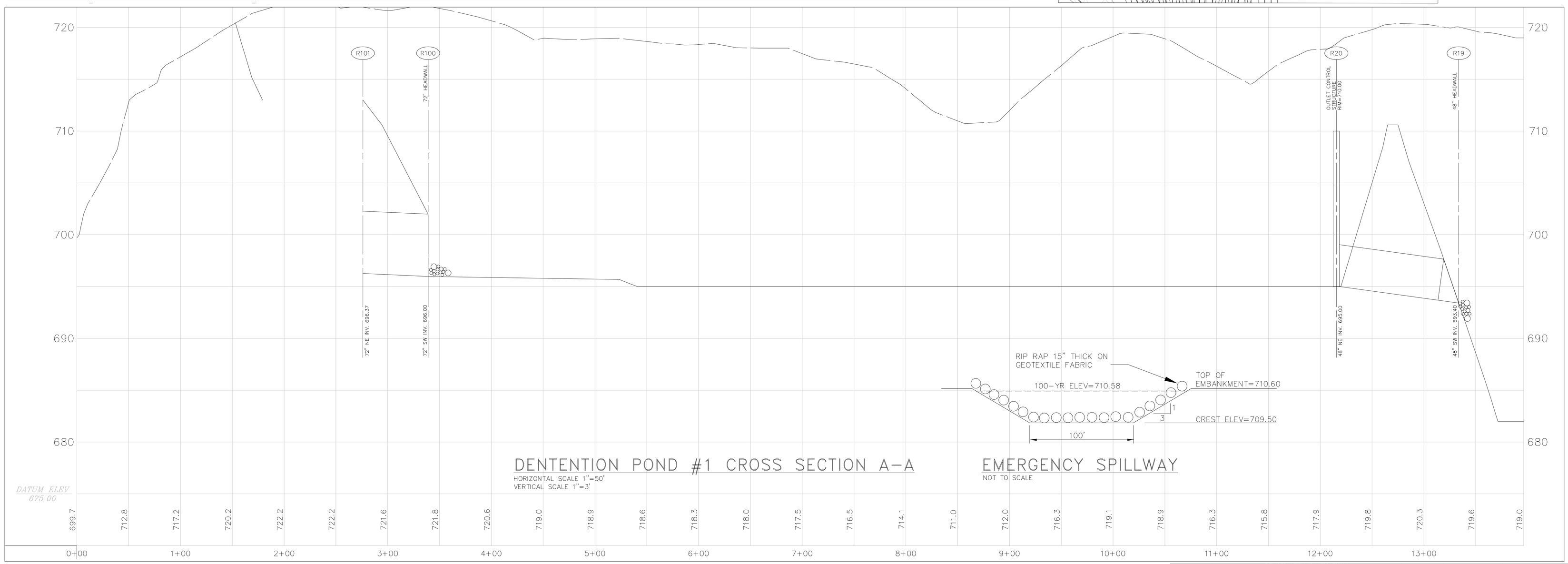
BRADLEY COUNTY, TENNESSEE

ATWELL
866.850.4200 | www.atwell-group.com
OFFICES IN NORTH AMERICA AND ASIA
658 GRASSMERE PARK DRIVE
SUITE 103
NASHVILLE, TN 37211
615 332 8414

Land Development & Real Estate
Power & Energy
Telecommunications
Infrastructure & Transportation
Environmental & Solid Waste
Water & Natural Resources







DENTENTION POND #1 CROSS SECTION A-A

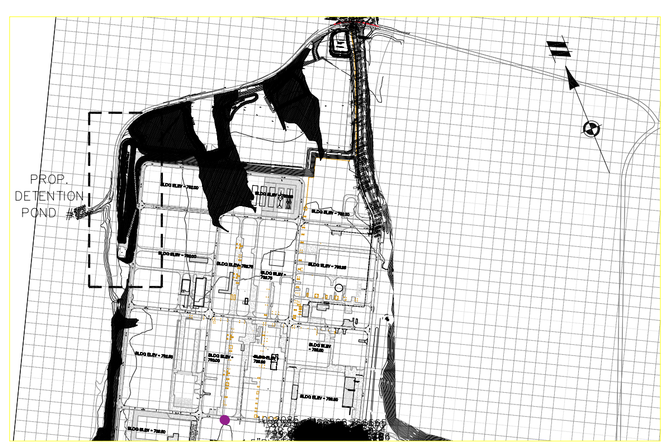
HORIZONTAL SCALE 1"=50'
VERTICAL SCALE 1"=3'

EMERGENCY SPILLWAY

NOT TO SCALE

DRAINAGE AREA 1

TOTAL ACREAGE = 145.56
DISTURBED AREA =0
STABILIZED AREA =0



DRAINAGE AREA MAP
SCALE: 1" = 1000'

LEGEND

835 EXIST. CONTOUR
835 PROP. CONTOUR
EXIST. 100YR FLOODPLAIN
EXIST. 100YR FLOODWAY

GRAPHIC SCALE

50 0 25 50 100 200
(IN FEET)
1 INCH = 50 FT.

REV23.0	REVISED WETLAND MITIGATION 3 REVISED WETLAND HYDRAULIC CONNECTION DETAIL	05/18/2016	ATG	ATWELL
REV22.0	REVISED 7TH STREET	10/30/2015	ATG	ATWELL
REV21.0	REVISED PIPE SIZING & INVERTS FOR R610A&R610C	08/27/2015	ATG	ATWELL
REV20.0	REVISED E STREET - INCLUDING TRUCK PARKING AREA	08/25/2015	ATG	ATWELL
REV19.0	REVISED WETLAND 1 DESIGN	12/05/2014	ATG	ATWELL
REV18.0	REVISED WETLAND MITIGATION 3 - 0.34 ACRES ADDED REVISED WETLAND HYDRAULIC CONNECTION DETAIL	11/05/2014	ATG	ATWELL
REV17.0	REVISED STORMWATER CHANNELS - ADDED ELEVATIONS	07/23/2014	ATG	ATWELL
REV16.0	IFC STORMWATER CHANNELS AND DETAILS	06/30/2014	ATG	ATWELL
REV15.0	REVISED WETLAND DESIGN FOR WETLANDS #1 & #2	04/08/2014	ATG	ATWELL
REV14.0	REVISED WETLAND DESIGN FOR WETLANDS 1 & 2	02/05/2014	ATG	ATWELL
REV13.0	REVISED NORTH ENTRANCE ROAD GRADING PLAN	07/24/2013	ATG	ATWELL
REV12.0	REVISED NORTH ENTRANCE ROAD GRADING PLAN	07/12/2013	ATG	ATWELL
REV11.0	REVISED POND #4 OUTLET STRUCTURE DETAILS	05/01/2013	ATG	ATWELL
REV10.0	REVISED ROAD D-STREET CROSS-SECTION	11/02/12	ATG	ATWELL
REV9.0	REVISED ROAD C-STREET CROSS-SECTION	10/24/12	ATG	ATWELL
REV8.0	REMOVED WALKWAY BRIDGE/SLUICE GATE	09/11/12	ATG	ATWELL
REV24.0	C17.0	12/13/21	KKH	WACKER
Index	Alteration	Date	Name	Company

	Date	Name
Drawn	01/07/11	BPH, MSC
Checked		
Norm tested		
Approved		

Wacker Polysilicon North America, LLC
Site Charleston Tennessee

ATWELL
4160 N. OCOEE ST. SUITE 8
CLEVELAND, TN 37312
866.850.4200

Scale 1"=50'

Tolerances ISO 8015

DRAINAGE AREA 1
DETENTION POND #1
DETAILS

Document-Typ:
CONSTRUCTION DOCUMENTS
CONTRACT 1B

Replaces:

Replaced by:

Drawing-No.: C17.0

BASED ON MASTER PLAN REV. 3.0

CAD-No.: 08003466CP-17-PND.dwg

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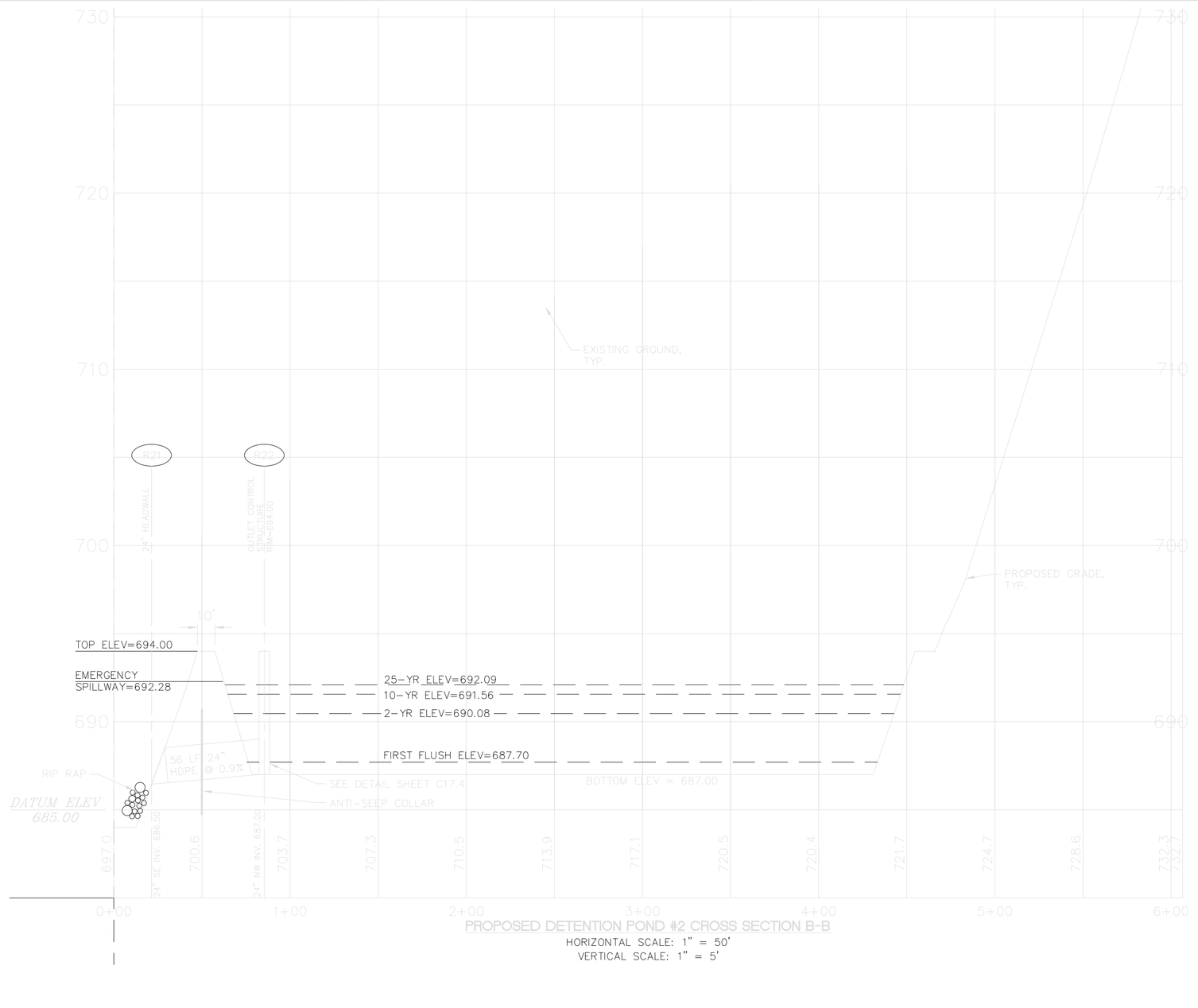
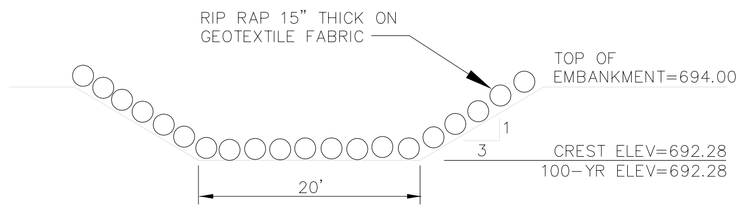
LOCATION MAP
SCALE: 1" = 1000'



PROPOSED DETENTION POND #2 CROSS SECTION B-B
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



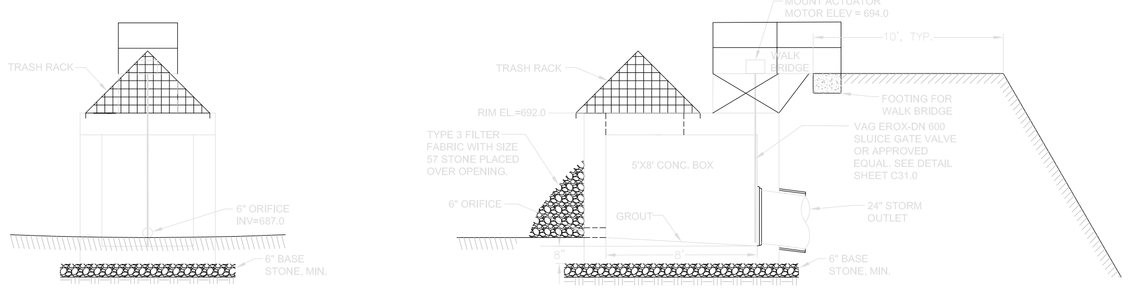
EMERGENCY SPILLWAY
NOT TO SCALE

DRAINAGE AREA 2

TOTAL ACREAGE = 33.21
DISTURBED AREA = 0
STABILIZED AREA = 0

SOIL EROSION

DSF	TEMPORARY DOUBLE ROW SILT FENCE WITH WIRE BACKING, 3FT. SEPARATION (EC-STR-3C)
SF	TEMPORARY SILT FENCE WITH WIRE BACKING (EC-STR-3C)
ISF	INTERIM SILT FENCE (EC-STR-3B) NOTE: INTERIM SILT FENCE TO BE INSTALLED AT THE TOE OF FILL PLACEMENT. INTERIM SILT FENCE TO BE RELOCATED AS NECESSARY AS FILL PLACEMENT PROCEEDS.
TP	TEMPORARY TREE PROTECTION FENCE
ST	TEMPORARY SEDIMENT TRAP WITH ROCK STABILIZED OUTLET
CE	TEMPORARY CONSTRUCTION EXIT
RR	RIP-RAP
DI	TEMPORARY DIVERSION DITCH
PAM	TEMPORARY STORMWATER TREATMENT DITCH
FR	STONE FILTER RING (OR CORE LOGS AS APPROVED BY TDEC)
BF	RIPARIAN BUFFER
DW	TEMPORARY DEWATERING TRAP
	TEMPORARY BAFFLE
	TEMPORARY CHECK DAM (OR EROSION EEL AS APPROVED BY TDEC)
	TEMPORARY SEDIMENT BASIN OUTLET CONTROL STRUCTURE



DETENTION POND #2 OUTLET STRUCTURE
NOT TO SCALE

DRAINAGE AREA #2
DETENTION POND #2
DETAILS

CLIENT: WACKER POLYSILICON NORTH AMERICA, LLC
WACKER POLY I/T TENNESSEE
STORM WATER POLLUTION PREVENTION PLANS

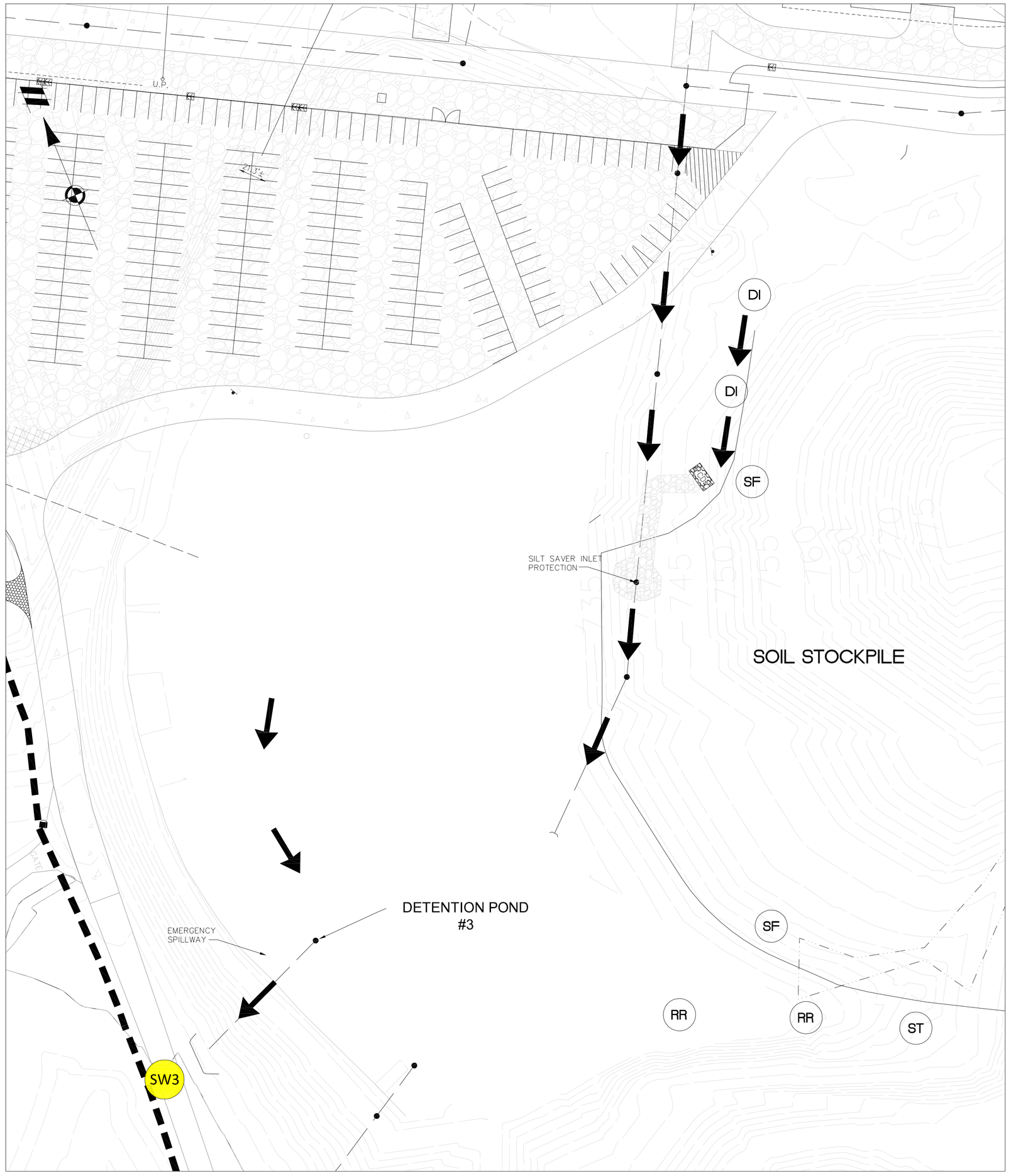
CHARLESTON
BRADLEY COUNTY, TENNESSEE

DATE: JUNE 06, 2014

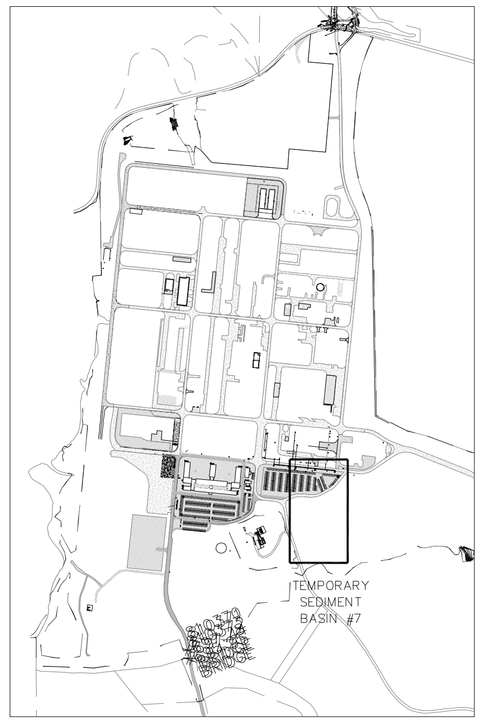
REVISIONS

C17.1

SCALE: 0 50 100
1" = 100 FEET
DR: JMK | CH: MCJ
P.M.: M. KENDALL
CAD FILE: 08003466NPDES-02.dwg
JOB: 08003466
SHEET NO.: 2



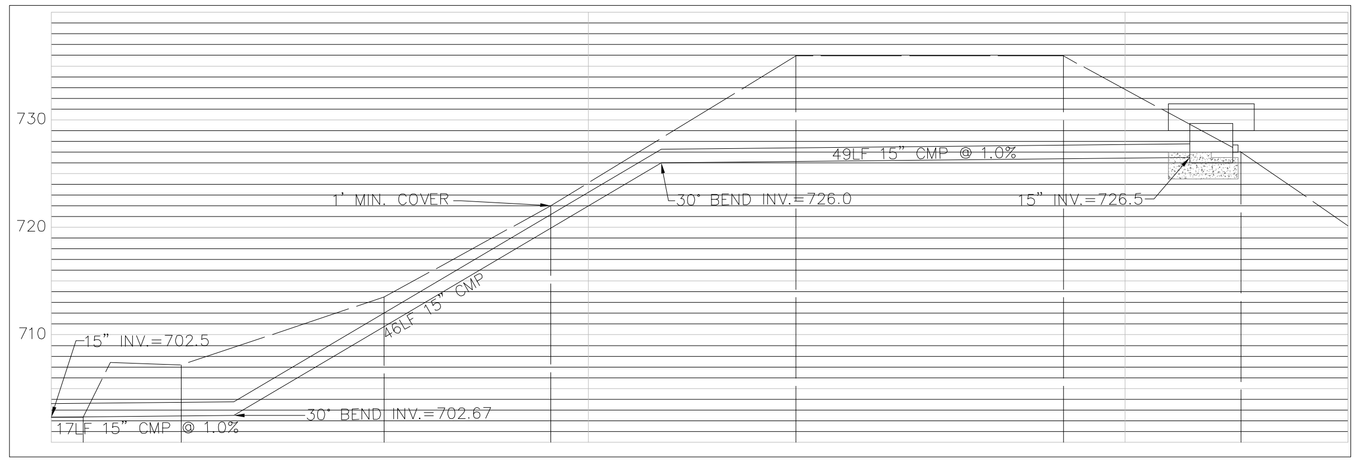
DETENTION POND #3
SCALE: 1" = 50'



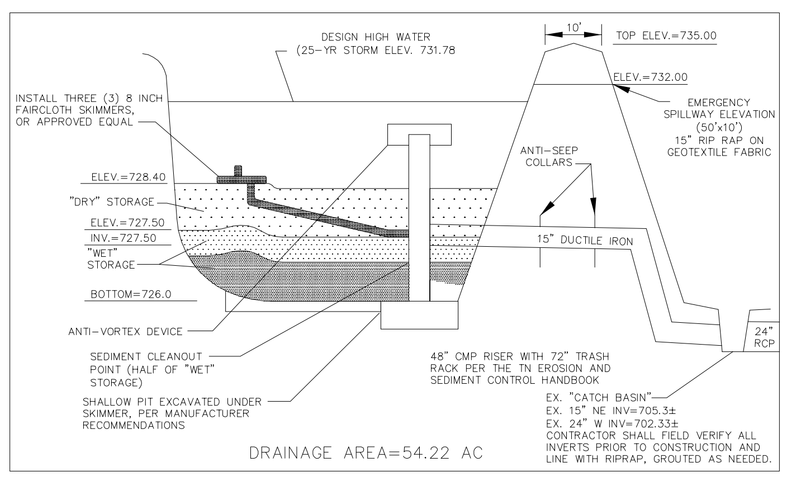
LOCATION MAP
SCALE: 1" = 1,000'

DRAINAGE AREA 3

TOTAL ACREAGE = 55.41
DISTURBED AREA =0
STABILIZED AREA =0



DETENTION POND #3
1"=10'



DETENTION POND #3 CROSS SECTION DETAIL
NTS

NOTE:
THE 25-YR, 24 HOUR STORM WAS USED AS A BASIS FOR THE DESIGN OF THE SEDIMENT PONDS.

SOIL EROSION

DSF	TEMPORARY DOUBLE ROW SILT FENCE WITH WIRE BACKING, 3FT. SEPARATION (EC-STR-3C)
SF	TEMPORARY SILT FENCE WITH WIRE BACKING (EC-STR-3C)
ISF	INTERIM SILT FENCE (EC-STR-3B) NOTE: INTERIM SILT FENCE TO BE INSTALLED AT THE TOE OF FILL PLACEMENT. INTERIM SILT FENCE TO BE RELOCATED AS NECESSARY AS FILL PLACEMENT PROCEEDS.
TP	TEMPORARY TREE PROTECTION FENCE
ST	TEMPORARY SEDIMENT TRAP WITH ROCK STABILIZED OUTLET
CE	TEMPORARY CONSTRUCTION EXIT
RR	RIP-RAP
DI	TEMPORARY DIVERSION DITCH
PAM	TEMPORARY STORMWATER TREATMENT DITCH
FR	STONE FILTER RING (OR CORE LOGS AS APPROVED BY TDEC)
BF	RIPARIAN BUFFER
DW	TEMPORARY DEWATERING TRAP
	TEMPORARY BAFFLE
CCD	TEMPORARY CHECK DAM (OR EROSION EEL AS APPROVED BY TDEC)
OCS	TEMPORARY SEDIMENT BASIN OUTLET CONTROL STRUCTURE

CHARLESTON
BRADLEY COUNTY, TENNESSEE

CLIENT
WACKER POLYSILICON NORTH AMERICA, LLC

WACKER POLY 11 TENNESSEE
STORM WATER POLLUTION PREVENTION PLANS
DRAINAGE AREA 3
DETENTION POND #3 DETAILS

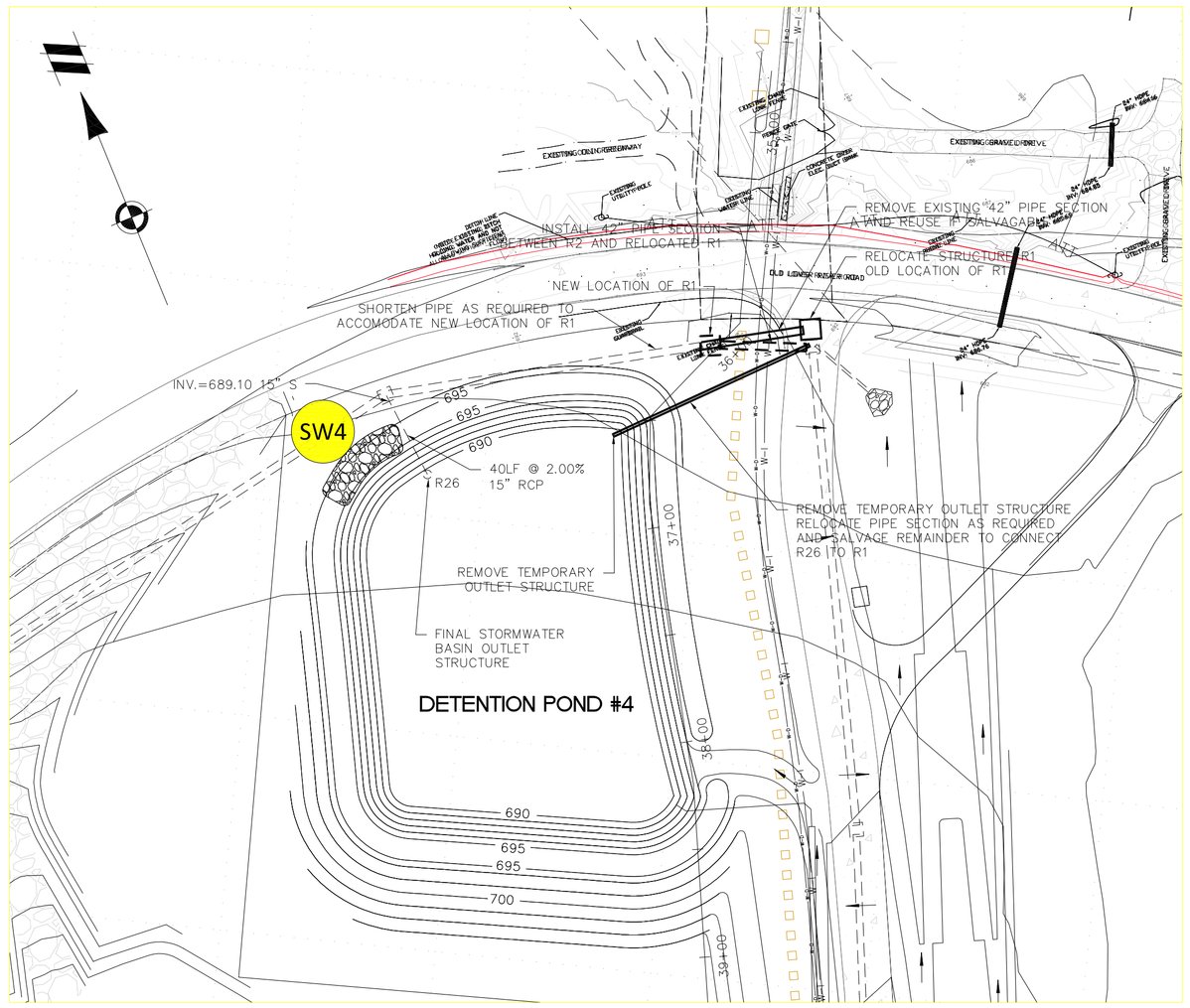
DATE MAY 16, 2014

C17.2
REVISIONS

SCALE 0 25 50
1" = 50 FEET
DR. JMK | CH. MCJ
P.M. M. KENDALL

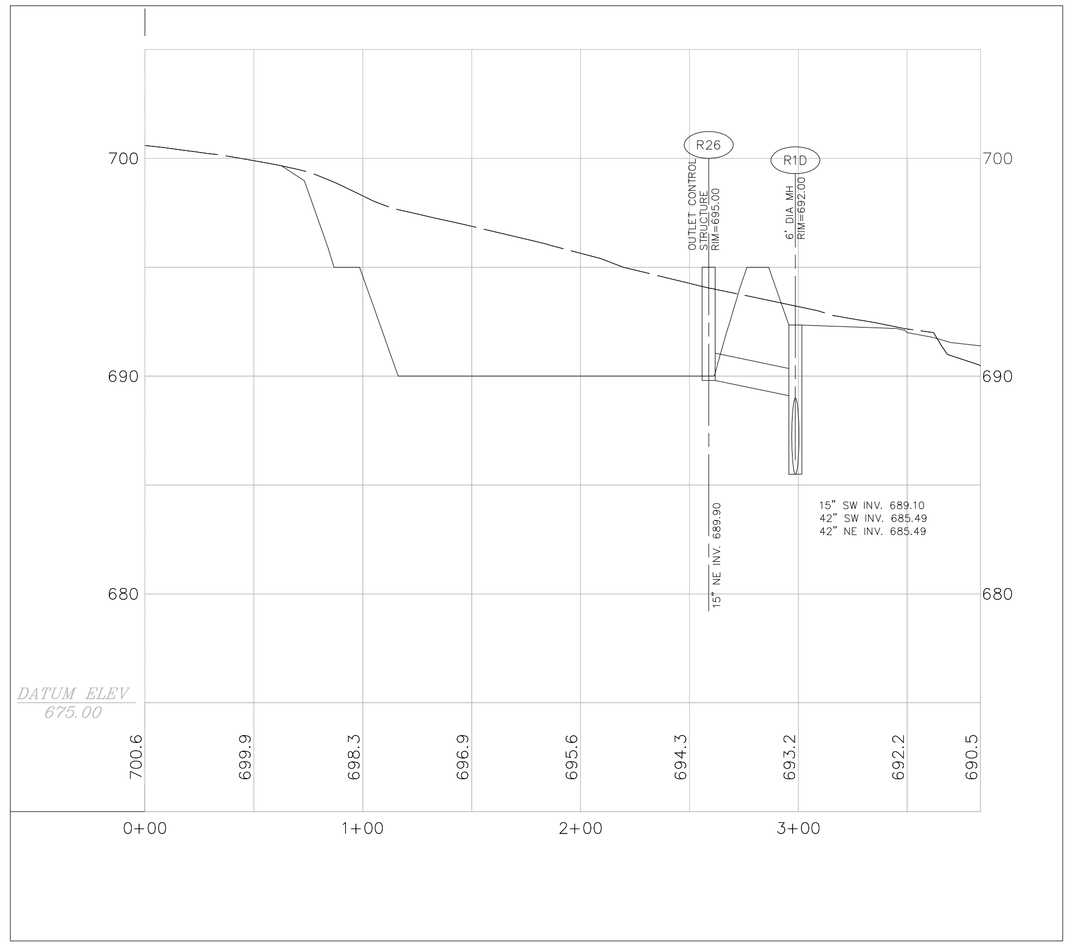
CAD FILE:
08003466NPDES-04.dwg
JOB 08003466

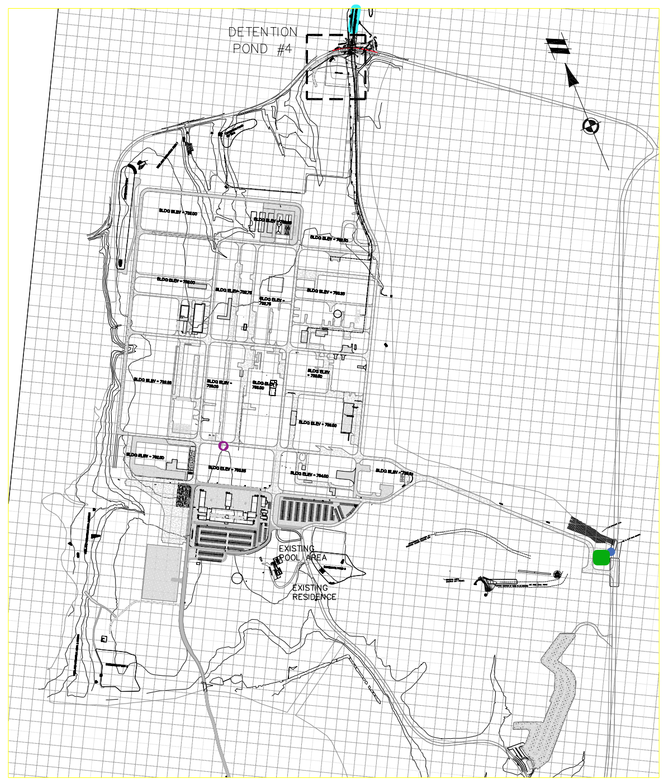
SHEET NO.
4



DETENTION POND #4

SCALE: 1" = 1000'



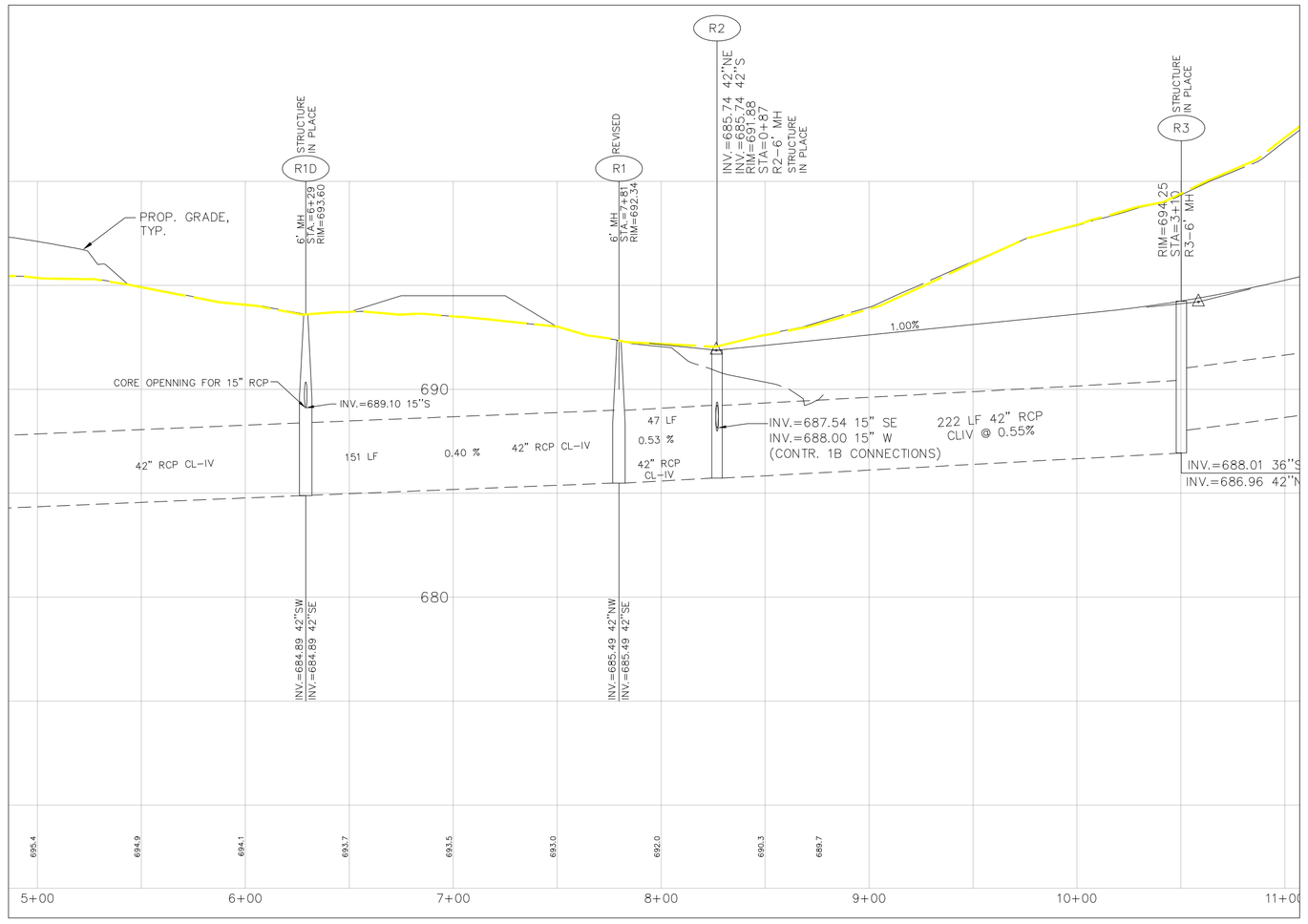


DRAINAGE AREA MAP

SCALE: 1" = 1000'

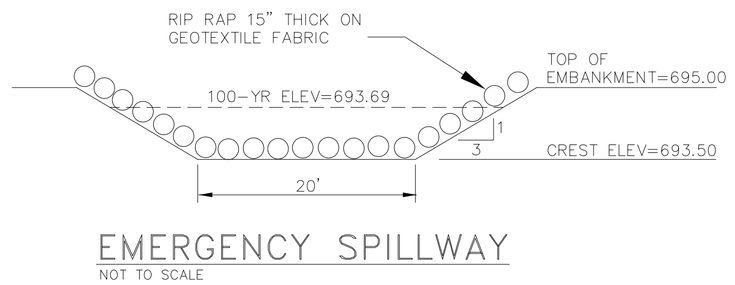
LEGEND

835 EXIST. CONTOUR
835 PROP. CONTOUR
EXIST. 100YR FLOODPLAIN
EXIST. 100YR FLOODWAY



POND #4 OUTLET STRUCTURE

SCALE: 1" = 1000'



EMERGENCY SPILLWAY

NOT TO SCALE

REV 11.0

DRAINAGE AREA #4

TOTAL ACREAGE = 9.52

DISTURBED AREA =0

STABILIZED AREA =0

GRAPHIC SCALE

50 0 25 50 100 200

REVISED WETLAND MITIGATION 3
REVISED WETLAND HYDRAULIC CONNECTION DETAIL (FEET)
1 INCH = 50 F

REV23.0	REVISED WETLAND MITIGATION 3 REVISED WETLAND HYDRAULIC CONNECTION DETAIL	05/18/2016	ATG	ATWELL
REV22.0	REVISED 7TH STREET	10/30/2015	ATG	ATWELL
REV21.0	REVISED PIPE SIZING & INVERTS FOR R610A&R610C	08/27/2015	ATG	ATWELL
REV20.0	REVISED E STREET - INCLUDING TRUCK PARKING AREA	08/25/2015	ATG	ATWELL
REV19.0	REVISED WETLAND 1 DESIGN	12/05/2014	ATG	ATWELL
REV18.0	REVISED WETLAND MITIGATION 3 - 0.34 ACRES ADDED REVISED WETLAND HYDRAULIC CONNECTION DETAIL	11/05/2014	ATG	ATWELL
REV17.0	REVISED STORMWATER CHANNELS - ADDED ELEVATIONS	07/23/2014	ATG	ATWELL
REV16.0	IFC STORMWATER CHANNELS AND DETAILS	06/30/2014	ATG	ATWELL
REV15.0	REVISED WETLAND DESIGN FOR WETLANDS #1 & #2	04/08/2014	ATG	ATWELL
REV14.0	REVISED WETLAND DESIGN FOR WETLANDS 1 & 2	02/05/2014	ATG	ATWELL
REV13.0	REVISED NORTH ENTRANCE ROAD GRADING PLAN	07/24/2013	ATG	ATWELL
REV12.0	REVISED NORTH ENTRANCE ROAD GRADING PLAN	07/12/2013	ATG	ATWELL
REV11.0	REVISED POND #4 OUTLET STRUCTURE DETAILS	05/01/2013	ATG	ATWELL
REV10.0	REVISED ROAD D-STREET CROSS-SECTION	11/02/12	ATG	ATWELL
REV9.0	REVISED ROAD C-STREET CROSS-SECTION	10/24/12	ATG	ATWELL
REV8.0	REMOVED WALKWAY BRIDGE/SLUICE GATE	09/11/12	ATG	ATWELL
REV24.0	CP17.1	12/13/21	KKH	WACKER
Index	Alteration	Date	Name	Company

	Date	Name
Drawn	01/07/11	BPH, MSC
Checked		
Norm tested		
Approved		

Wacker Polysilicon North America, LLC
Site Charleston Tennessee

ATWELL
4160 N. OCOEE ST. SUITE B
CLEVELAND, TN 37312
866.850.4200

Scale 1"=50'

Tolerances ISO 8015

DRAINIAGE AREA 4
DETENTION POND #4
DETAILS

Drawing-No.: C17.3

BASED ON MASTER PLAN REV. 3.0

Document-Typ:
CONSTRUCTION DOCUMENTS
CONTRACT 1B

Replaces:

Replaced by:

CAD-No.: 08003466CP-17-PND.dwg

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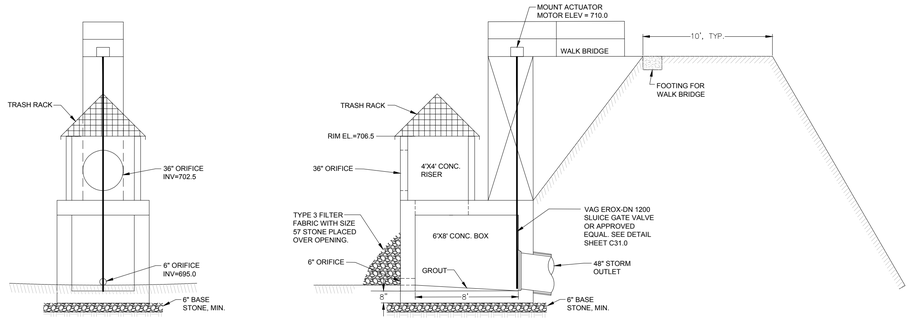
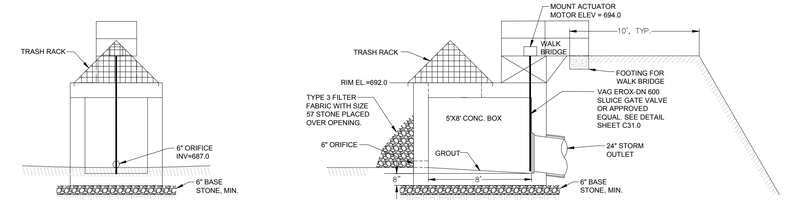


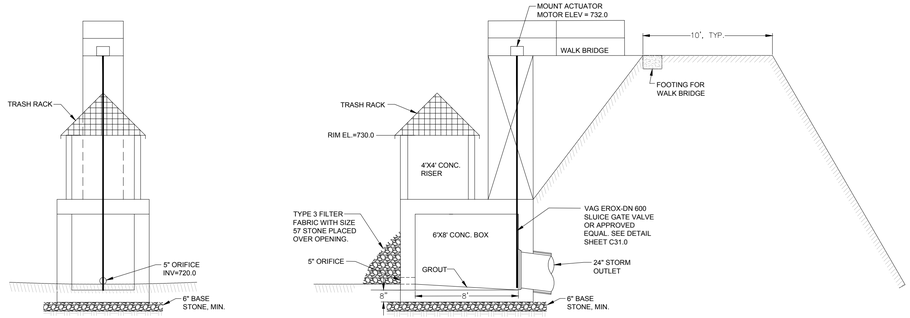
DETENTION POND #1 OUTLET STRUCTURE

NOT TO SCALE



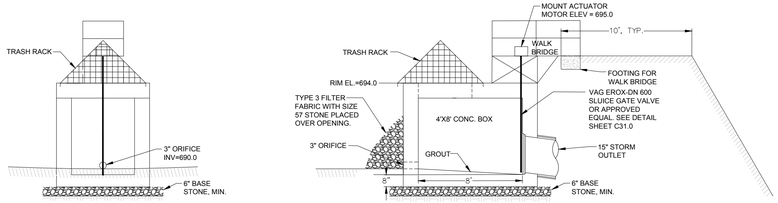
DETENTION POND #2 OUTLET STRUCTURE

NOT TO SCALE



DETENTION POND #3 OUTLET STRUCTURE

NOT TO SCALE



DETENTION POND #4 OUTLET STRUCTURE

NOT TO SCALE

REV 11.0

REV0.0	ASBUILT STORM SEWER SYSTEM		07/31/2015	ATG	ATWELL
Index	Alteration		Date	Name	Company
	Date	Name			
Drawn	07/20/2015	JDM	Wacker Polysilicon North America, LLC Site Charleston Tennessee		
Checked					
Norm tested					
Approved					

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Scale NTS	DETENTION POND OUTLET CONTROL STRUCTURE DETAILS	Document-Typ: RECORD DRAWINGS CONTRACT 1B
Tolerances ISO 8015		Replaces:
	Drawing-No.: C17.4	Replaced by:
	BASED ON MASTER PLAN REV. 3.0	CAD-No.: 08003466CP-17-PND.dwg

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LEGEND

- 835 — EXIST. CONTOUR
- × 854.6 — EXIST. SPOT ELEVATION
- EXIST. FENCE
- RR — RIP-RAP
- DI — RIP RAP LINED DITCH
- 001 — PROCESS WATER DISCHARGE POINT – SEE TABLE BELOW FOR LATITUDE AND LONGITUDE
- 002 — RAW WATER BACKWASH POINT – SEE TABLE BELOW FOR LATITUDE AND LONGITUDE

LOCATION	LATITUDE	LONGITUDE
001	35°18'51.96"	-84°47'09.32"
002	35°18'41.55"	-84°46'55.57"
SW4	35°18'22.11"	-84°47'28.52"

HIWASSEE RIVER

001

SAMPLING LOCATION

RIVER WATER INTAKE

002

ARCH PROPERTY LINE

LONZA

OLIN CHEMICAL

SOUTH MOUSE CREEK

ASPHALT PAVEMENT

OLD LOWER RIVER ROAD

SW4

EP = 19+07.14

19+00 18+00 17+00 16+00 15+09

DETENTION POND #4

OLD LOWER RIVER ROAD

LOWER RIVER ROAD

E 2000 E 3000 E 4000 E 5000
N 12000 N 11000 N 10000 N 9000 N 8000

SHEET NO. 2

CAD FILE: 08003466#PDES=Industrial Stormwater--DLN.dwg

JOB 08003466

P.M. M. KENDALL

DR. JDM CH.

SCALE 1" = 150 FEET (0, 75, 150)

REVISIONS -

DATE JUNE 25, 2014

CLIENT
WACKER POLYSILICON NORTH AMERICA, LLC

WACKER POLY 11 TENNESSEE
STORM WATER POLLUTION
PREVENTION PLANS
SITE MAP/ DRAINAGE AREA PLAN

FIG. 2

CHARLESTON

BRADLEY COUNTY, TENNESSEE

MATCHLINE SEE ABOVE

OLD LOWER RIVER ROAD

IMP2 LOCATION
N.356200.3905
E.2328529.0207
LAT. 35.3058
LONG. -84.7934

EXISTING SIGN

SW4

SW4
LAT. 35.3061
LONG. -84.7913
N. 356337.9191
E. 2329154.6796

IMP1 LOCATION
LAT. 35.3061
LONG. -84.7906
N. 356325.0768
E. 2329341.9352

DETENTION POND #4

TVA ENTRANCE

TVA SUBSTATION

A300

B300

PROP. FUTURE RAIL SPUR

APPROXIMATE LIMITS OF EXISTING WETLANDS, TYP.

PROP. LIMITS OF DISTURBANCE

115 SF RIP RAP (8" MIN.)

MATCHLINE SEE BELOW

LEGEND

- ROAD CENTERLINE
- STATION NUMBER
- PROPERTY LINE
- FUTURE RAILROAD CENTERLINE
- EASEMENT
- MINOR CONTOUR
- MAJOR CONTOUR
- TEMPORARY CHECK DAM (OR EROSION EEL AS APPROVED BY TDEC)

NOTE:

1. CONTRACTOR TO PROVIDE TRAFFIC CONTROL AS NEEDED FOR STORM SEWER CROSSING OF LOWER RIVER ROAD.
2. REPAIR OPEN CUT OF ROAD PER BRADLEY COUNTY REQUIREMENTS.

LOCATION MAP
SCALE: 1" = 1000'

SCALE 1" = 50 FEET (0, 25, 50)

DR. JMK | CH. MCJ

P.M. M. KENDALL

CAD FILE: 08003466NPDES-07.dwg

JOB 08003466

SHEET NO. 7

DATE JUNE 09, 2014

REVISIONS

CLIENT
WACKER POLYSILICON NORTH AMERICA, LLC

WACKER POLY 11 TENNESSEE
STORM WATER POLLUTION
PREVENTION PLANS

OFFSITE DRAINAGE BYPASS PLAN

CHARLESTON

BRADLEY COUNTY, TENNESSEE