

Summary of Bakers Falls Inspection – September 21, 2023

On September 21, 2023, General Electric Company (GE) and its Arcadis representatives completed an inspection of the dry portion of Bakers Falls below the Bakers Falls Dam. National Grid's Arcadis representatives, the United States Environmental Protection Agency (USEPA), and the New York State Department of Environmental Conservation (NYSDEC) were also present. Access to Bakers Falls was coordinated with Boralex Hydro Operations, Inc. and done in compliance with the Bakers Falls Access Safety Plan (August 2023), Bakers Falls Access Permit (September 2023 – Attachment A), and the Bakers Falls Access and Dense Non-Aqueous Phase Liquid (DNAPL) Collection Job Safety Analysis (JSA – Attachment B). Select photographs are provided in Attachment C.

Summary of Observations

See Bakers Falls Access Permit (Attachment A) for weather and river flow conditions, as well as a full list of participants and coordination.

Observations focused on areas of GE's historical operations, former DNAPL seeps, and areas around the Allen Mill. Inspections focused on the potential presence or indications (e.g., odors, staining, sheen) of DNAPL. Observations were also made in areas reported by the USEPA to have had DNAPL-like odors during their November 2022 inspection of Bakers Falls. Furthermore, National Grid's Arcadis representatives made observations of the Allen Mill, Eastern Raceway wall, and Wing Dam to facilitate deconstruction design.

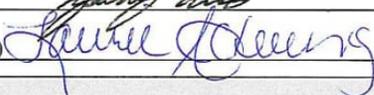
Upon conclusion of the September 21, 2023, Bakers Falls inspection, all parties acknowledged no indications of DNAPL were observed. The USEPA representative noted that construction of access to Bakers Falls from the east bank should be considered to allow for periodic inspections of Bakers Falls. The NYSDEC representative also noted that periodic inspections of Bakers Falls, such as once every three or four months, conditions permitting, should be considered. GE will evaluate constructing such access.

The next Bakers Falls inspection is anticipated to occur in 2024, following an end to winter weather and seasonal high flow conditions.

Attachment A
Bakers Falls Access Permit 23-001

BAKERS FALLS ACCESS PERMIT

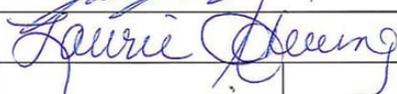
Permit No.: 23-001

PLANNING DOCUMENTATION					
To be Provided for GE Review and Authorization 72-Hours Prior to Planned Access					
Project Name: Hudson Falls – National Grid’s Allen Mill Deconstruction - Predesign Investigation					
Planned Access Date:	09/21/2023	Start Time (Not prior to sunrise):	11:00 AM	End Time (Not after 1hr before sunset):	1:00 PM
Forecasted Peak Hudson River Flow (USGS Station 01327750; Not to exceed 8,000 cfs): https://water.weather.gov/ahps2/hydrograph.php?gage=ften6&wfo=aly			3,210 (at 12:00 PM)	cfs	
Forecasted Weather (No inclement weather, No reduced visibility, No work ≤ 40°F):		Sunny, high temperature 71°F, no forecasted rain/precipitation			
Location and Description of Work Area:		Bakers Falls exposed bedrock. Reconnaissance for Allen Mill predesign investigation. Work will focus on the east half of Bakers Falls, near GE’s historical Bakers Falls remedial work.			
Boralex Planned Activities During Access and Acknowledgment of GE’s Bakers Falls Work (Confirm no anticipated flow over dam or through Boralex’s debris gate):		Boralex will be concurrently performing routine survey on Bakers Falls. Boralex will be operating their hydroelectric facility with no planned interruptions. Communication 9/18/23 @ 1250.			
Boralex Requested to Lower Bakers Falls Impoundment Water Elevation During Access?		<input checked="" type="radio"/> Yes	<input type="radio"/> No	Boralex Anticipates to Comply with Request?	
				<input checked="" type="radio"/> Yes	<input type="radio"/> No
Communicated Intended Access Plan with South Glens Falls Fire Company (SGFFC) and SGFFC acknowledged without issues?				<input type="radio"/> Yes	<input checked="" type="radio"/> No
Notes: SGFFC called 9/15/23 and 9/18/23 – No answer. Email provided to SGFFC 9/18/23 at 11:27 identifying intended access.					
Names of Entrants: Laurie Scheuing, Rocco Giampaolo, Keith White, Zach Evans, Chris Yates					
Name(s) of Attendant: Anthony Pliscofsky					
Preliminary Authorization					
Permit Completed by (Contractor):	(print) Zachary Evans	(sign)		(date)	9/18/2023
Permit Authorized by (Client):	(print) Laurie Scheuing	(sign)		(date)	9/18/2023
ACCESS CONDITIONS					
To be Completed and Provided for GE Review and Authorized No More Than 1-Hour Prior To Access					
Hudson River Flows - USGS Station 01327750 Hydrograph to be Printed & Attached – National Weather Service Advanced Hydrologic Prediction Services – https://water.weather.gov/ahps2/hydrograph.php?gage=ften6&wfo=aly					
Current Flow at Fort Edward (Not to exceed 8,000 cfs):	2,801	cfs	0715	time	
Projected Peak Flow at Fort Edward During Work (Not to exceed 8,000 cfs):	2,510	cfs	1200	time	
Current Weather Conditions:	9/21/2023 at 0730: 45F, light fog lifting, clear skies				
Forecasted Weather Conditions (No inclement weather, No reduced visibility, No work ≤ 40°F):	71F, Sunny, Clean skies				
Boralex Planned Activities During Access and Acknowledgment of GE’s Bakers Falls Work (Confirm no anticipated flow over dam or through Boralex’s debris gate):		Boralex will be concurrently performing routine survey on Bakers Falls. Boralex will be operating their hydroelectric facility with no planned interruptions. Communication 9/21/23 at 0740			
Has Bakers Falls Impoundment Water Elevation Been Lowered for Access?				<input checked="" type="radio"/> Yes	<input type="radio"/> No
Hudson River Conditions – To be Completed by Attendant and Reported to Entrants Hourly for Jobs More Than One Hour					
Fort Edward Hudson River USGS Station 01327750					
Time	Flow (cfs)	Time	Flow (cfs)		
1115	2290				
1145	2260				
1230	2260				

CHECKLIST: Circle "Yes" or "No." "No" responses require action before proceeding.

Yes	No	GE Authorization Received on Planning Documentation
Yes	No	SGFFD Contacted Prior to Access (Notify Upon Exit) (Email provided 9/18/23, phone calls unanswered 9/15, 9/18, 9/20, 9/21/23)
Yes	No	Boralex Contacted and Operations Successfully Coordinated Prior to Access
Yes	No	Hudson River Flow Rate Recorded and Hydrograph with Forecast Printed & Attached
Yes	No	Rescue Equipment in Place: Retrieval Line and Life Ring in at River Access; Binoculars with Attendant
Yes	No	Communications in Place and Verified: Cell Phones or Two-Way Radios, and Air Horns
Yes	No	Entrants and Attendant(s) Identified and Contact Information Provided Below
Yes	No	PPE in Place: PFD (with light & whistle), Hard Hat, Safety Shoes, Safety Glasses, Hi-Visibility Vest.
Yes	No	Personnel Training Verified and Task-Specific JSA(s) Reviewed

PERMIT AUTHORIZATION

Permit Completed by (Contractor):	(print) Zachary Evans	(sign) 	(date) 9/21/2023
Permit Authorized by (GE):	(print) Laurie Scheuing	(sign) 	(date) 9/21/2023
Permit Valid For:	Start Date & Time: 9/21/2023 1100	End Date & Time: 9/21/2023, 1300	

CONTACT INFORMATION

EMERGENCY – CALL 911

South Glens Falls Fire Department	(518) 792-1674	911
GE – Laurie Scheuing	(518) 429-4505	(518) 221-6078
Boralex – Erik Bergman	(518) 747-0930	(518) 744-0502
Site Safety Representative & Attendant Anthony Pliscofsky	(518) 232-7914	
Entrants	Laurie Scheuing (GE) 518-429-4505	Dave Rosoff (EPA)
Entrants	Zach Evans (ARC) 570-852-9571	Joe Battipaglia (EPA)
Entrants	Rocco Giampaolo (ARC) 518-576-9728	Dave Tromp (DEC) 518-764-2401
Entrants	Keith White (ARC) 315-391-6698	(NG)
Entrants	Chris Yates 518-522-7037	(NG)

PERMIT CANCELLED:

If permit cancelled because of prohibited condition, fully describe the circumstances:

Sign-in Log

Name	Entrant - Attendant		Time In	Time Out
Joe Battipaglia	X		11:10	1300 ↓ ✓
Matt Wiener	X		11:10	
DAVID TROMP	X		11:10	
DAVE ROSOFF	X		11:10	
Laurie Scheuing	✓		11:10	
Zachary Evans	✓		11:10	
Rocco Giampaolo	✓		11:10	
Anthony Pliscofsky		✓	11:10	

Thomas Gray in

11:15

1300

Keith Kelt in

11:15

 in

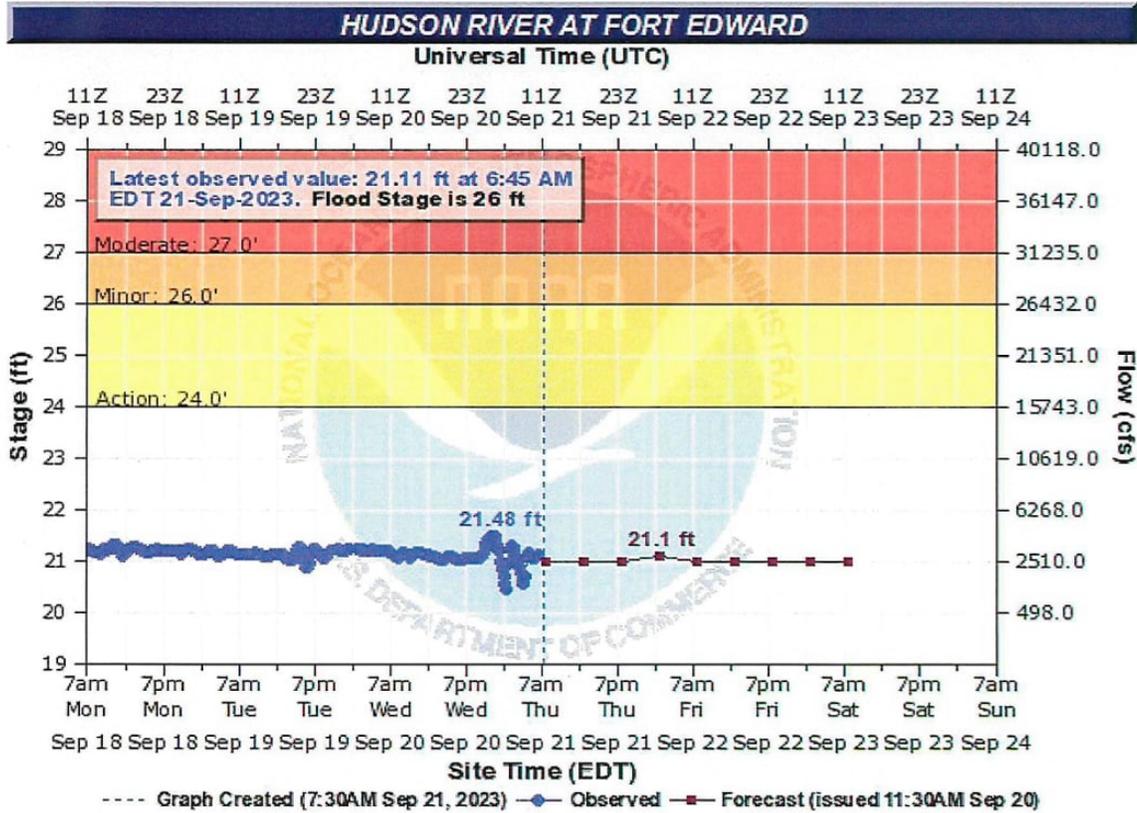
11:15

Chris Yates in

11:15



**National Weather Service
Advanced Hydrologic Prediction Service**
water.weather.gov/ahps/



FTEN6(plotting HGIRG) "Gage 0" Datum: 100' Observations courtesy of US Geological Survey

Observations courtesy of [US Geological Survey](http://www.usgs.gov/).

NOTE: Gauge reading affected by reservoir operations.

Forecasts for the Hudson River at Fort Edward are issued routinely year-round.

Attachment B

Bakers Falls Access and DNAPL Collection

Job Safety Analysis

Job Safety Analysis (JSA) – Bakers Falls Access & DNAPL Collection

Activity/Work Task: This JSA covers the activity of entering the dry bedrock portion of Bakers Falls and removing DNAPL from seeps. This JSA covers Bakers Falls entry via the Boralex facility on the west Hudson River bank and alternative access by vessel. Dense non-aqueous phase liquid (DNAPL) removal involves using absorbent pads to collect DNAPL from seeps. All tasks will be performed in Level D personal protective equipment (PPE) except when indicated otherwise in this JSA. Level D PPE will include hard hat, safety glasses, safety shoes, high-visibility vest, and US Coast Guard-approved personal floatation device (PFD). Upgrade with the use of nitrile gloves when collecting DNAPL.	Overall Risk Assessment Code (RAC) (Use highest code)	M																								
Project Location: GE Hudson Falls Bakers Falls	Risk Assessment Code (RAC) Matrix																									
Contract Number: TBD	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="width: 15%; text-align: center; vertical-align: middle;">Severity</td> <td colspan="5" style="text-align: center;">Probability</td> </tr> <tr> <td style="text-align: center;">Frequent</td> <td style="text-align: center;">Likely</td> <td style="text-align: center;">Occasional</td> <td style="text-align: center;">Seldom</td> <td style="text-align: center;">Unlikely</td> </tr> </table>		Severity	Probability					Frequent	Likely	Occasional	Seldom	Unlikely													
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Date Prepared: 9/30/13 & Updated 10/19/2017 (OBG-JSA-41.0) Arcadis Updated 9/18/2023	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">Catastrophic</td> <td style="text-align: center;">E</td> <td style="text-align: center;">E</td> <td style="text-align: center;">H</td> <td style="text-align: center;">H</td> <td style="text-align: center;">M</td> </tr> <tr> <td style="text-align: center;">Critical</td> <td style="text-align: center;">E</td> <td style="text-align: center;">H</td> <td style="text-align: center;">H</td> <td style="text-align: center;">M</td> <td style="text-align: center;">L</td> </tr> <tr> <td style="text-align: center;">Marginal</td> <td style="text-align: center;">H</td> <td style="text-align: center;">M</td> <td style="text-align: center;">M</td> <td style="text-align: center;">L</td> <td style="text-align: center;">L</td> </tr> <tr> <td style="text-align: center;">Negligible</td> <td style="text-align: center;">M</td> <td style="text-align: center;">L</td> <td style="text-align: center;">L</td> <td style="text-align: center;">L</td> <td style="text-align: center;">L</td> </tr> </table>		Catastrophic	E	E	H	H	M	Critical	E	H	H	M	L	Marginal	H	M	M	L	L	Negligible	M	L	L	L	L
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Critical	E	H	H	M	L																					
Marginal	H	M	M	L	L																					
Negligible	M	L	L	L	L																					
Prepared by (Name/Title): Zachary Evans/Project Manager	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">Marginal</td> <td style="text-align: center;">H</td> <td style="text-align: center;">M</td> <td style="text-align: center;">M</td> <td style="text-align: center;">L</td> <td style="text-align: center;">L</td> </tr> <tr> <td style="text-align: center;">Negligible</td> <td style="text-align: center;">M</td> <td style="text-align: center;">L</td> <td style="text-align: center;">L</td> <td style="text-align: center;">L</td> <td style="text-align: center;">L</td> </tr> </table>		Marginal	H	M	M	L	L	Negligible	M	L	L	L	L												
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Negligible	M	L	L	L	L																					
Reviewed by (Name/Title): Andrea Quimoyog, H&S Supervisor	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">Negligible</td> <td style="text-align: center;">M</td> <td style="text-align: center;">L</td> <td style="text-align: center;">L</td> <td style="text-align: center;">L</td> <td style="text-align: center;">L</td> </tr> </table>		Negligible	M	L	L	L	L																		
Negligible	M	L	L	L	L																					
Employer/GBU: Arcadis North America	Step 1: Review each "Hazard" with identified safety "Controls" and determine RAC (See above). The RAC is developed after correctly identifying all the hazards and fully implementing all controls.																									
Notes: Sign in at Hudson Falls Water Treatment plant office prior to beginning work. Use of buddy system is required.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">P "Probability"</td> <td style="width: 60%;">is the likelihood to cause an incident, near miss, or accident and identified as: Frequent, Likely, Occasional, Seldom or Unlikely.</td> <td rowspan="4" style="text-align: center; vertical-align: middle;">RAC Chart</td> </tr> <tr> <td>S "Severity"</td> <td>is the outcome/degree if an incident, near miss, or accident did occur and identified as: Catastrophic, Critical, Marginal, or Negligible</td> </tr> <tr> <td colspan="2" style="padding: 5px;"> Step 2: Identify the RAC (Probability/Severity) as E, H, M, or L for each "Hazard" on AHA. Annotate the overall highest RAC at the top of AHA. </td> </tr> <tr> <td colspan="2"></td> </tr> </table>		P "Probability"	is the likelihood to cause an incident, near miss, or accident and identified as: Frequent, Likely, Occasional, Seldom or Unlikely.	RAC Chart	S "Severity"	is the outcome/degree if an incident, near miss, or accident did occur and identified as: Catastrophic, Critical, Marginal, or Negligible	Step 2: Identify the RAC (Probability/Severity) as E, H, M, or L for each "Hazard" on AHA. Annotate the overall highest RAC at the top of AHA.																		
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References: 1. Arcadis Hudson Falls Health & Safety Manual 2. GE Section 01350 4. Baker Falls Access Safety Plan 5. Bakers Falls Access Permit 6. ARCADIS JSA_Boating_Revised 7. Water Risk Assessment Form_v03_13 February 2023 8. USCG Float Plan 9. AQJSA003_General Boating Activities	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">E = Extremely High Risk</td> </tr> <tr> <td style="text-align: center;">H = High Risk</td> </tr> <tr> <td style="text-align: center;">M = Moderate Risk</td> </tr> <tr> <td style="text-align: center;">L = Low Risk</td> </tr> </table>		E = Extremely High Risk	H = High Risk	M = Moderate Risk	L = Low Risk																				
E = Extremely High Risk																										
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Job Steps	Hazards	Controls	P	S	RAC
If Accessing Bakers Falls by Vessel Operated by Arcadis	See JSA: ARCADIS JSA_Boating_Revised	<ul style="list-style-type: none"> • See JSA: ARCADIS JSA_Boating_Revised • Complete Water Risk Assessment Form • Complete USCG Float Plan • Review Bakers Falls Access Safety Plan • Complete Bakers Falls Access Permit 			
If Access Bakers Falls by Vessel Operated by Others (Anchor QEA)	See JSA: AQJSA003_General Boating Activities	<ul style="list-style-type: none"> • See JSA: AQJSA003_General Boating Activities or other operator's applicable JSA(s) • Confirm USCG Float Plan has been completed • Review Bakers Falls Access Safety Plan • Complete Bakers Falls Access Permit 			
Entering Bakers Falls by Boralex Access	Engulfment / Drowning	<p>Follow procedures identified in the Bakers Falls Access Safety Plan and Complete Bakers Falls Access Permit including:</p> <ul style="list-style-type: none"> • Communication and coordination with Boralex including request to lower Baker Falls impoundment water elevation • Confirm Hudson River flows are <8,000cfs • DO NOT access Bakers Falls if water is topping Bakers Falls Dam • Confirm weather forecast does not include reduced visibility, precipitation, or air temperatures ≤40°F • Ensure safety equipment and PPE is in place and in good working condition: Level D PPE, USCG-approved personal flotation device (PFD), life ring with line, cell phones or two-way radios, air horn, binoculars. • Attendant in place at Watch Station on east dam abutment. • Work is prohibited within 10-feet of water at the falls' south end and pools on Bakers Falls, except when entering or exiting (or embarking/disembarking a vessel) when accessing the falls 	U	Ca	M

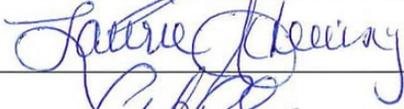
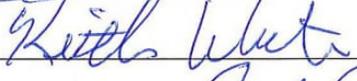
Job Steps	Hazards	Controls	P	S	RAC
		<ul style="list-style-type: none"> In the event of a man overboard – Follow man-overboard procedures identified in the Bakers Falls Access Safety Plan section 5.5 One long air horn blast indicates man overboard 			
	Slip, trip, and fall	<ul style="list-style-type: none"> Establish a walking route that favors dry and stable surfaces with minimal grade changes – step, do not jump. Move carefully and confirm footing while moving across shale. Walk in areas with least amount of broken debris and lowest slope. 	S	M	L
Walking and Working on Bakers Falls	Slip, trip, and fall	<ul style="list-style-type: none"> Establish a walking route that favors dry and stable surfaces with minimal grade changes – step, do not jump. Move carefully and confirm footing while moving across shale. Walk in areas with least amount of broken debris and lowest slope. 	S	M	L
	Engulfment / Drowning	<p>Follow procedures identified in the Bakers Falls Access Safety Plan and Complete Bakers Falls Access Permit including:</p> <ul style="list-style-type: none"> Communication and coordination with Boralex including request to lower Baker Falls impoundment water elevation Confirm Hudson River flows are <8,000cfs DO NOT access Bakers Falls if water is topping Bakers Falls Dam If water is observed rising or overtopping the Bakers Falls Dam, evacuate Three air horn blasts indicate an evacuation is required Attendant to monitor river flows at least once per hour and report to Entrants for work >1-hour 	U	Ca	M

Job Steps	Hazards	Controls	P	S	RAC
		<ul style="list-style-type: none"> • Confirm weather forecast does not include reduced visibility, precipitation, or air temperatures $\leq 40^{\circ}\text{F}$ • Ensure safety equipment and PPE is in place and in good working condition: Level D PPE, USCG-approved personal floatation device (PFD), life ring with line, cell phones or two-way radios, air horn, binoculars. • Attendant in place at Watch Station on east dam abutment. • Work is prohibited within 10-feet of water at the falls' south end and pools on Bakers Falls, except when entering or exiting (or embarking/disembarking a vessel) when accessing the falls • In the event of a man overboard – Follow man-overboard procedures identified in the Bakers Falls Access Safety Plan section 5.5 • One long air horn blast indicates man overboard 			
	Heat Stress	<ul style="list-style-type: none"> • Drink 8 oz of water every 30 minutes when temperature exceeds 80°F • Take 10 minute break every 30 minutes when temperature exceeds 80°F 	U	M	L
DNAPL Removal	Exposure to PCBs	<ul style="list-style-type: none"> • Upgrade PPE to modified Level D with addition of nitrile gloves while handling absorbent materials • Place spent PPE and absorbents in a designated trash bag for proper disposal 	U	N	L
	Heat Stress	<ul style="list-style-type: none"> • Drink 8 oz of water every 30 minutes when temperature exceeds 80°F • Take 10 minute break every 30 minutes when temperature exceeds 80°F 	U	M	L

Equipment to be Used	Training Requirements/Competent or Qualified Personnel	Inspection Requirements
Equipment: None	40-hour Hazwoper and requisite 8-hour refresher Medical Monitoring/Clearance Site-specific H&S Training	Equipment: Not Applicable
Materials: Absorbent Pads Garbage Bag		
Safety Equipment: Floatation Ring with Life Line (at Access Location) Cell Phones or Two-Way Radios (Entrants and Attendant) Air Horns (Entrants and Attendant) Binoculars (Attendant)		Safety Equipment: Verify operation of cell phones/two-way radios, air horns, and binoculars
Personal Protective Equipment: Safety Glasses (SG) Steel-Toe Boots (STB) Hard Hat (HH) High Visibility Vest (HVV) Nitrile Gloves (NG) Personal Floatation Device (PFD)		Personal Protective Equipment: SG - Before Each Use STB - Monthly HH - Monthly HVV - Monthly NG – Before Each Use PFD – Before Each Use

This JSA should be discussed at the daily tailgate meeting. All employees are required to familiarize themselves with the contents of this JSA before starting the work activity.

ACKNOWLEDGEMENT OF JSA REVIEW

Print	Signature	Affiliation/Company
Zachary Evans		Arcadis
Laurie Schering		GE
Anthony Pliscotsky		Arc
Thomas Casey		ARCADIS
Terry Young		Arcadis
Keith White		Arcadis
Reeco Giampardo		Arc

ALL INCIDENTS AND SERIOUS NEAR-MISSES MUST BE REPORTED IMMEDIATELY

You May Not Leave at the End of Your Shift if You Have an Unreported Incident

Employee in Charge of Briefing: Zachary Evans | 
 Print Sign

Date: 9/21/2023

Attachment C
Bakers Falls Inspection Photographs

Bakers Falls Photos

September 21, 2023

PARTICIPANTS

LAURIE SCHEUING (GE)

CHRIS YATES (ANCHOR QEA)

DAVID ROSOFF (USEPA)

ZACH EVANS (ARCADIS)

TERRY YOUNG (ARCADIS)

JOSEPH BATTIPAGLIA (USEPA)

ROCCO GIAMPAOLO (ARCADIS)

TOM CAREY (ARCADIS)

MATT WIENER (USEPA)

KEITH WHITE (ARCADIS)

DAVID TROMP (NYSDEC)

























