VIA ELECTRONIC MAIL

February 24, 2022

Mr. Christopher Mannes III, P.E.
Environmental Engineer II
New York State Department of Environmental Conservation
615 Erie Boulevard West
Syracuse, NY 13204-2400

Subject: **Fourth Quarter 2021 Progress Report**
Former Rollway Bearing Corporation Facility, Liverpool, New York
Agreement Index Number: V7-1007-96-10; Site No. V00202

Dear Mr. Mannes:

On behalf of Emerson Electric Co., WSP USA Inc. (WSP) is submitting this Fourth Quarter 2021 Progress Report for the former Rollway Bearing Corporation facility in Liverpool, New York. This quarterly progress report summarizes all work completed at the site from October through December 2021, and work planned for January through March 2021. The report was prepared in accordance with the requirements of the revised Site Management Plan, dated May 4, 2021, and includes the following information:

- a summary of all work completed and the results of sampling and testing performed during the reporting period
- a summary of reports and deliverables that were completed and submitted during the reporting period
- an estimate of the percentage of completion of the approved work plan activities, problems encountered during the quarter and actions taken to alleviate those problems, and modifications to work plans approved by the New York State Department of Environmental Conservation (NYSDEC)
- a description of activities anticipated to be completed during the next quarter

WORK COMPLETED

The following activities were completed during October through December 2021:

LNAPL RECOVERY SYSTEM

- WSP conducted operation, maintenance, and monitoring (OM&M) visits on October 14 and December 6, 2021, to confirm proper operation of the light non-aqueous phase liquid (LNAPL) recovery system. The OM&M logs are included in Enclosure A. The LNAPL recovery system was operational during the quarter.
- During the October 14, 2021, site visit, absorbent socks were removed from wells RW-1, OW-1, OW-2, OW-3, OW-5, OW-8, SB-5, SB-8, OW-9/FB-2, and OW-11/FB-4, weighed, and placed in a U.S. Department of Transportation-compliant 55-gallon steel drum for subsequent characterization and offsite disposal (Figure 1; Enclosure B). New absorbents were installed in these wells. The absorbents in wells RW-2, OW-4, and OW-10/FB-1 were removed, inspected, and then reinstalled in the same well because the absorbents did not exhibit LNAPL staining. No absorbents are in wells SB-7 and SB-10 because no product has been detected in these wells since December 2019.
- On December 6, 2021, the system was turned off to conduct a voluntary high-vacuum removal event using a vacuum truck to remove residual LNAPL from wells OW-3, RW-1, and SB-5 and from the surrounding formation. The LNAPL removal activities were conducted in accordance with WSP's email to Christopher Mannes of the NYSDEC, dated May 3, 2021, and consisted of applying a high vacuum to the wells using an air-tight well cap equipped with a drop tube. During the 3-day event, vacuum was applied to OW-1 for approximately 20 hours to determine if the application of a sustained high vacuum would prevent the reoccurrence of measurable LNAPL in the well. Approximately 850 gallons of liquid were removed from the wells and pumped into a vacuum truck and transported offsite for disposal at the permitted Covanta Environmental Solutions facility in Oriskany, New York (Enclosure C). The vacuum blower remained off following the high-vacuum LNAPL removal event to evaluate LNAPL recovery

under ambient conditions. The system was re-started on January 21, 2022, after obtaining LNAPL thickness measurements from the wells placed under vacuum.

SUB-SLAB DEPRESSURIZATION SYSTEM

- The sub-slab depressurization system (SSDS) installed in the eastern portion of the former Rollway Bearing facility was operational during the quarter (Figure 2). On October 14 and December 6, 2021, WSP inspected the SSDS to ensure its proper operation, and collected bimonthly vacuum readings from the SSDS extraction points. The vacuum readings obtained from the SSDS are documented on the inspection forms included in Enclosure D. During the December inspection, the vacuum reading at SSD-03 was low (i.e., -0.50 inch water column [WC]) compared to previous readings (-24.27 to -25.94 inches WC). On January 21, 2022, WSP confirmed the previous low vacuum reading at SSD-03; the fan for SSD-03 is scheduled to be replaced during the first quarter of 2022.

RESULTS OF SAMPLING AND TESTING

- No sampling or testing was conducted during the quarter.

REPORTS AND DELIVERABLES

- WSP submitted the Third Quarter 2021 Progress Report to the NYSDEC on November 15, 2021, which summarized activities conducted from July through September 2021.

PERCENTAGE OF COMPLETION

WSP estimates that the project is 90 percent complete.

DIFFICULTIES/MODIFICATIONS TO WORK PLAN

During the quarter, system operating parameters were generally within typical operating ranges with the following exceptions:

- The vacuum readings for the LNAPL recovery wells OW-2 and OW-8 collected on October 14 and December 6, 2021, were below the typical operating range; however, the flow from these wells was relatively uniform and, thus, no corrective action is recommended at this time. The lower vacuum readings are likely attributable to the use of a digital gauge for the vacuum readings. The typical operating range indicated on the field measurement form (Enclosure A) was based on historical readings obtained with an analog gauge.

- The vacuum reading at SSD-03 measured on December 6, 2021, was low (i.e., -0.50 inch WC) compared to previous readings (-24.27 to -25.94 inches WC). A subsequent vacuum reading obtained from SSD-03 on January 21, 2022, was also low; the fan for SSD-03 is scheduled to be replaced in the first quarter of 2022.

WORK PLANNED

The following work has been completed, or is anticipated to be undertaken from January through March 2022:

- On January 21, 2022, WSP obtained LNAPL thickness measurements from OW-3, RW-1, and SB-5 and the LNAPL thicknesses will be provided in the next quarterly progress report. In addition, WSP collected another vacuum reading from SSD-03 that also showed a low vacuum.
- WSP will conduct an OM&M visit in February 2022 to ensure proper operation of the LNAPL recovery system and SSDS and to remove absorbents from the wells in preparation for semi-annual LNAPL thickness measurements in March 2022.
- WSP anticipates replacing the fan associated with SSD-03.

Please contact us at (315) 374-5574 with any questions regarding this Fourth Quarter 2021 Progress Report, or other aspects of the project.

Sincerely yours,

Brian E. Silfer, P.G.
Practice Leader

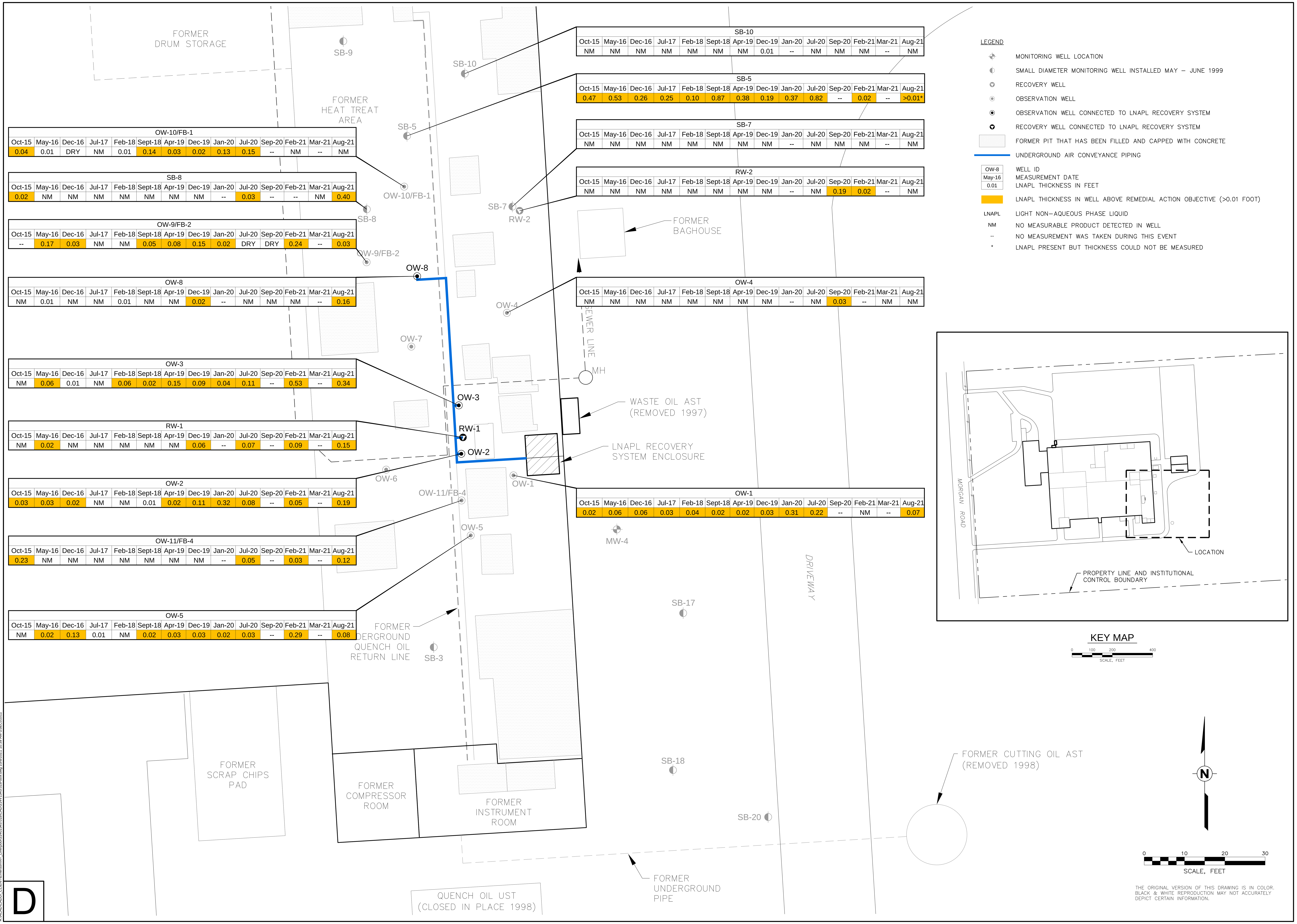
Enclosures

cc/encl.: Mr. Johnathan Robinson, New York State Department of Health
Mr. Stephen L. Clarke, Emerson
Ms. Sheila M. Harvey, Esquire, Pillsbury Winthrop Shaw Pittman

FIGURES

LNAPL THICKNESS MEASUREMENTS FORMER HEAT TREAT DEPARTMENT

Well ID	Oct-15	May-16	Dec-16	Jul-17	Feb-18	Sept-18	Apr-19	Dec-19	Jan-20	Jul-20	Sep-20	Feb-21	Mar-21	Aug-21
SB-10	NM	NM	NM	NM	NM	NM	NM	0.01	--	NM	NM	NM	--	NM
SB-5	0.47	0.53	0.26	0.25	0.10	0.87	0.38	0.19	0.37	0.82	--	0.02	--	>0.01*
SB-7	NM	NM	NM	NM	NM	NM	NM	NM	--	NM	NM	NM	--	NM
RW-2	NM	NM	NM	NM	NM	NM	NM	NM	--	NM	0.19	0.02	--	NM
OW-4	NM	NM	NM	NM	NM	NM	NM	NM	--	NM	0.03	--	NM	NM
OW-1	0.02	0.06	0.06	0.03	0.04	0.02	0.02	0.03	0.31	0.22	--	NM	--	0.07
OW-10/FB-1	0.04	0.01	DRY	NM	0.01	0.14	0.03	0.02	0.13	0.15	--	NM	--	NM
SB-8	0.02	NM	NM	NM	NM	NM	NM	NM	--	0.03	--	--	NM	0.40
OW-9/FB-2	--	0.17	0.03	NM	NM	0.05	0.08	0.15	0.02	DRY	DRY	0.24	--	0.03
OW-8	NM	0.01	NM	NM	0.01	NM	NM	0.02	--	NM	NM	NM	--	0.16
OW-3	NM	0.06	0.01	NM	0.06	0.02	0.15	0.09	0.04	0.11	--	0.53	--	0.34
RW-1	NM	0.02	NM	NM	NM	NM	NM	0.06	--	0.07	--	0.09	--	0.15
OW-2	0.03	0.03	0.02	NM	NM	0.01	0.02	0.11	0.32	0.08	--	0.05	--	0.19
OW-11/FB-4	0.23	NM	NM	NM	NM	NM	NM	NM	--	0.05	--	0.03	--	0.12
OW-5	NM	0.02	0.13	0.01	NM	0.02	0.03	0.03	0.02	0.03	--	0.29	--	0.08



LEGEND

- MONITORING WELL LOCATION
- SMALL DIAMETER MONITORING WELL INSTALLED MAY – JUNE 1999
- RECOVERY WELL
- OBSERVATION WELL
- OBSERVATION WELL CONNECTED TO LNAPL RECOVERY SYSTEM
- RECOVERY WELL CONNECTED TO LNAPL RECOVERY SYSTEM
- FORMER PIT THAT HAS BEEN FILLED AND CAPPED WITH CONCRETE
- UNDERGROUND AIR CONVEYANCE PIPING
- OW-8 / May-16 / 0.01 — WELL ID / MEASUREMENT DATE / LNAPL THICKNESS IN FEET
- LNAPL THICKNESS IN WELL ABOVE REMEDIAL ACTION OBJECTIVE (>0.01 FOOT)
- LNAPL — LIGHT NON–AQUEOUS PHASE LIQUID
- NM — NO MEASURABLE PRODUCT DETECTED IN WELL
- -- — NO MEASUREMENT WAS TAKEN DURING THIS EVENT
- * — LNAPL PRESENT BUT THICKNESS COULD NOT BE MEASURED

THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK & WHITE REPRODUCTION MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.

REVISIONS

REV	DESCRIPTION	Revised:	Chkd:	Appr:

SEAL

DATE

DRAWN BY: ECG
CHECKED:
APPROVED: AMR 10/7/2021

LNAPL THICKNESS MEASUREMENTS
FORMER HEAT TREAT DEPARTMENT

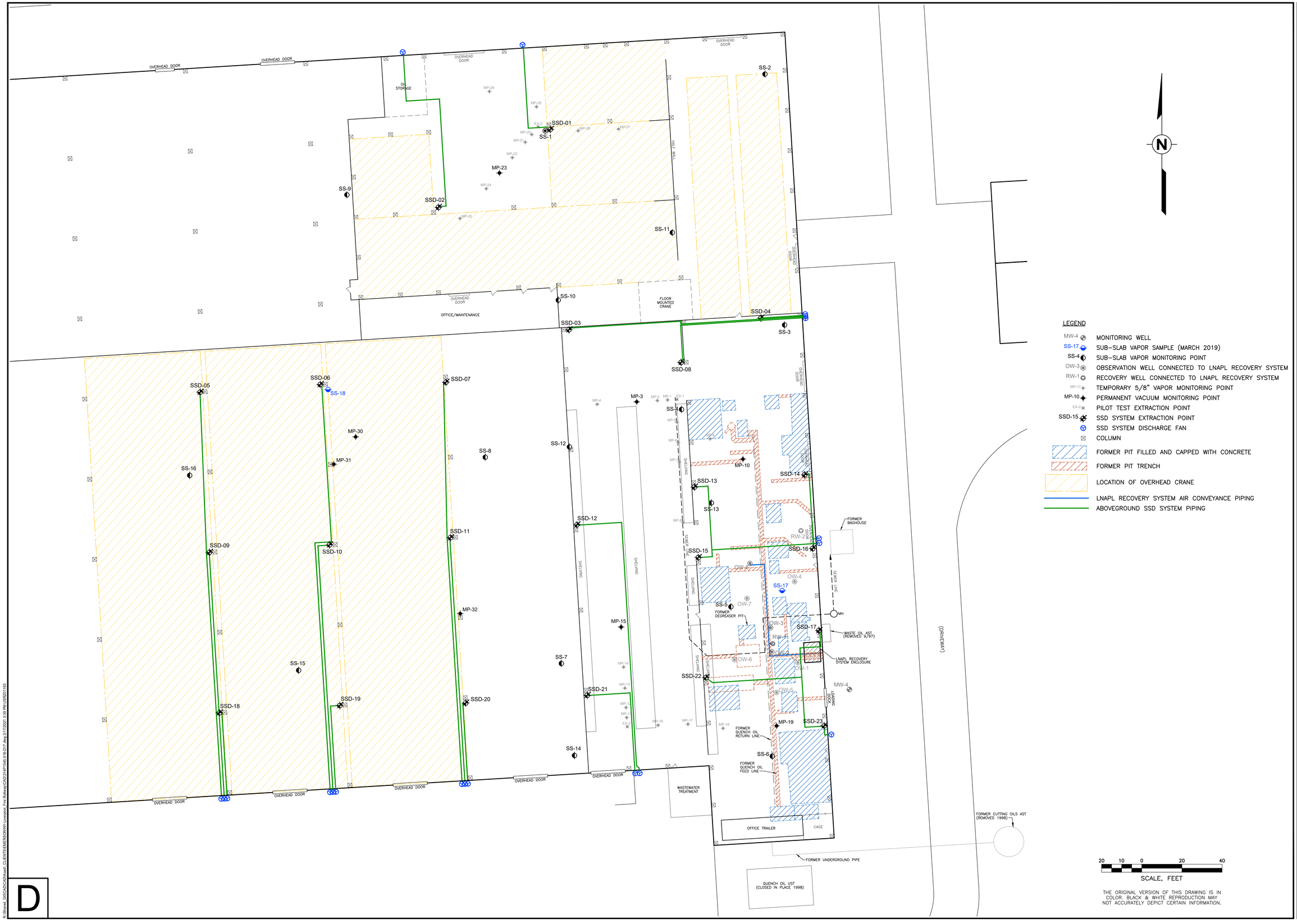
FORMER ROLLWAY BEARING CORPORATION FACILITY
LIVERPOOL, NEW YORK

PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

WSP USA Inc.
7000 E. GENESEE ST. BLDG D, 2ND FLOOR
FAYETTEVILLE, NY 13066
TEL: +1 315.655.3900

FIGURE 1

Drawing Number
314V1545.018–009


OVERHEAD DOOR
OVERHEAD DOOR
OVERHEAD DOOR
OVERHEAD DOOR
OIL STORAGE
OFFICE/MAINTENANCE
OVERHEAD DOOR
FLOOR MOUNTED CRANE
OVERHEAD DOOR
OVERHEAD DOOR
OVERHEAD DOOR
OVERHEAD DOOR
OVERHEAD DOOR
OVERHEAD DOOR
OVERHEAD DOOR
SS-1
SS-2
SS-3
SS-4
SS-5
SS-6
SS-7
SS-8
SS-9
SS-10
SS-11
SS-12
SS-13
SS-14
SS-15
SS-16
SSD-01
SSD-02
SSD-03
SSD-04
SSD-05
SSD-06
SSD-07
SSD-08
SSD-09
SSD-10
SSD-11
SSD-12
SSD-13
SSD-14
SSD-15
SSD-16
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SSD-18
SSD-19
SSD-20
SSD-21
SSD-22
SSD-23
SS-17
SS-18
MP-3
MP-10
MP-15
MP-19
MP-23
MP-30
MP-31
MP-32
RW-2
OW-3
OW-4
OW-5
OW-6
OW-7
MW-4
SHELVING
SHELVING
SHELVING

ENCLOSURE A – OM&M LOG SHEETS

Table 1

Checklist
LNAPL Recovery System
Former Rollway Bearing Facility
Liverpool, NY

Date: ___10/14/21_____
Arrival Time: _9:30_____
Departure Time: _____

Inspector (print): _____Nate Winston_____
Inspector (sign): ____[signature]_____
Weather Conditions: _____58°F, cloudy

Reason for Visit: _____OM&M_____

LNAPL Recovery System Skid

Gauge	OM&M Reading		Typical Operation Reading	
	Reading	Units	Reading	Units
Inlet Vacuum: Before Vapor-Liquid Separator	**-60**	in H_2O	*-58 to -62*	in H_2O
Vacuum Before Air Filter	**-69**	in H_2O	*-66 to -68*	in H_2O
Vacuum After Air Filter/Before Blower Inlet	**-66**	in H_2O	*-86*	in H_2O
Discharge Stack Pressure	**2**	in H_2O	*2*	in H_2O
Discharge Stack Temperature	**138**	° F	*120 to 138*	° F
Kilowatt Hour Meter	**172,113**	kWh	-	kWh

LNAPL Recovery Wells

Well ID	OM&M Reading		Typical Operation Reading	
	Vacuum (in H_2O)	Flow (SCFM)	Vacuum (in H_2O)	Flow (SCFM)
OW-2	**-2.38**	**5.5**	*-40 to -54*	*3 to 7*
RW-1	**-16.44**	**5.0**	*-5 to -11*	*5.5 to 7*
OW-3	**-7.28**	**5.5**	*-6 to -11*	*2 to 3*
OW-8	**-2.87**	**5.0**	*-8 to -10*	*4 to 11*

Notable Observations:

_____

System Maintenance:

Description of Maintenance Needed:
_____

Date of Maintenance Completion:
_____

Table 1

Checklist
LNAPL Recovery System
Former Rollway Bearing Facility
Liverpool, NY

Date: 12/06/21
Arrival Time: 9:00
Departure Time: 16:00
Inspector (print): Nate Winston
Inspector (sign): [signature]
Weather Conditions: 50°F, light rain

Reason for Visit: OM&M and LNAPL Removal

LNAPL Recovery System Skid

Gauge	OM&M Reading		Typical Operation Reading	
	Reading	Units	Reading	Units
Inlet Vacuum: Before Vapor-Liquid Separator	**-60**	in H_2O	*-58 to -62*	in H_2O
Vacuum Before Air Filter	**-68**	in H_2O	*-66 to -68*	in H_2O
Vacuum After Air Filter/Before Blower Inlet	**-66**	in H_2O	*-86*	in H_2O
Discharge Stack Pressure	**2**	in H_2O	*2*	in H_2O
Discharge Stack Temperature	**136**	° F	*120 to 138*	° F
Kilowatt Hour Meter	**172,136**	kWh	-	kWh

LNAPL Recovery Wells

Well ID	OM&M Reading		Typical Operation Reading	
	Vacuum (in H_2O)	Flow (SCFM)	Vacuum (in H_2O)	Flow (SCFM)
OW-2	**-2.46**	**5.5**	*-40 to -54*	*3 to 7*
RW-1	**-15.90**	**6.0**	*-5 to -11*	*5.5 to 7*
OW-3	**-7.33**	**5.5**	*-6 to -11*	*2 to 3*
OW-8	**-3.25**	**5.0**	*-8 to -10*	*4 to 11*

Notable Observations:

N/A

System Maintenance:

Description of Maintenance Needed:
N/A

Date of Maintenance Completion:

ENCLOSURE B – ABSORBENT INSPECTION/REPLACEMENT FORM

Field Form for Absorbent Inspection/Replacement
Former Rollway Bearing Facility
Liverpool, New York

Date: October 14, 2021 Inspector (print): Nathaniel Winston
Arrival Time: 9:30 Inspector (sign): _____
Departure Time: _____ Weather Conditions: 58 F, cloudy

Well ID	Staining (Y/N)	Absorbent Replaced (Y/N)	Spent Absorbent Weight (in grams)
RW-1	Y	Y	1349.0
RW-2	N	N	NA
OW-1	Y	Y	649
OW-2	Y	Y	321.5
OW-3	Y	Y	634.5
OW-4	N	N	NA
OW-5	Y	Y	255.5
OW-8	Y	Y	677.5
SB-5	Y	Y	30.5
SB-7	*	-	-
SB-8	Y	Y	29.0
SB-10	*	-	-
OW-10/FB-1	N	N	NA
OW-9/FB-2	Y	Y	549.0
OW-11/FB-4	Y	Y	1350.5

* = no absorbent in well

Notable Observations:

Well Maintenance:

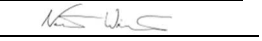
Description of Maintenance Needed:

NA

Date of Maintenance Completion:

Field Form for Absorbent Inspection/Replacement
Former Rollway Bearing Facility
Liverpool, New York

Date: December 6, 2021
Arrival Time: 9:00
Departure Time: 16:00

Inspector (print): Nathaniel Winston
Inspector (sign): 
Weather Conditions: 50 F, light rain

Well ID	Staining (Y/N)	Absorbent Replaced (Y/N)	Spent Absorbent Weight (in grams)
RW-1	Y	Y	1377.0
RW-2	N	N	NA
OW-1	Y	Y	657.5
OW-2	Y	Y	339.0
OW-3	Y	Y	645
OW-4	N	N	NA
OW-5	Y	Y	292.5
OW-8	Y	Y	641.0
SB-5	Y	Y	35.0
SB-7	*	-	-
SB-8	Y	Y	30.0
SB-10	*	-	-
OW-10/FB-1	N	N	NA
OW-9/FB-2	N	N	NA
OW-11/FB-4	Y	Y	1264.5

* = no absorbent in well

Notable Observations:

Well Maintenance:

Description of Maintenance Needed:

NA

Date of Maintenance Completion:

ENCLOSURE C – WASTE SHIPPING DOCUMENT

Please print or type

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	800-888-7689	

GENERATOR

5. Generator's Name and Mailing Address: Rolling Bearing Corp, 7600 Morgan Rd. Liverpool, NY 13090

Generator's Site Address (if different than mailing address): 7600 Morgan Rd, Liverpool NY 13090

Generator's Phone: (412) 375-0264

6. Transporter 1 Company Name: HEPACO, LLC — U.S. EPA ID Number: NCD 986194306

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: Covanta Environmental Solutions (Mohawk Facility), 120 Dry Rd, Oriskany, NY 13424 — U.S. EPA ID Number

Facility's Phone: (315) 736-6480

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-RCRA, NON-DOT REGULATED MATERIAL (QUENCH OIL AND WATER MIXTURE)	1	TT	850	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

HEPACO JOB # 2185.120040

HEPACO PO # 812-101086

E-MAIL TO: APINVOICE@HEPACO.COM

CES APPROVAL # 5013038

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: NATE WINSTON — Signature: [signature] — Month: 12 Day: 8 Year: 21

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: TONY KAMINSKI — Signature: [signature] — Month: 12 Day: 8 Year: 2021

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

ENCLOSURE D - SUB-SLAB DEPRESSURIZATION SYSTEM INSPECTION FORMS

Sub-Slab Depressurization System Inspection Form
Former Rollway Bearing Corporation Facility
Liverpool, New York

Date:	**10/14/2021**	**Inspector (print):**	Nate Winston
Time:	**9:30**	**Inspector (sign):**	

Weather Conditions 58 deg F, cloudy

Reason for Visit (check all that apply):

Routine Inspection/O&M	**X**	Response to Owner Notification	
Other			

Vacuum Measurements

SSD Extraction Point	Vacuum Reading (in W.C.)	SSD Extraction Point	Vacuum Reading (in W.C.)
SSD-01	-7.85	SSD-13	-5.44
SSD-02	-0.48	SSD-14	-3.03
SSD-03	-24.04	SSD-15	-4.58
SSD-04	-20.78	SSD-16	-4.20
SSD-05	-0.19	SSD-17	-1.09
SSD-06	-25.32	SSD-18	-20.45
SSD-07	-23.61	SSD-19	-19.66
SSD-08	-0.41	SSD-20	-1.02
SSD-09	-25.08	SSD-21	-23.87
SSD-10	-0.41	SSD-22	-3.17
SSD-11	-1.54	SSD-23	-1.31
SSD-12	-19.01		

SSD Risers	Yes	No	Comments/Corrective Action Taken
Observable leaking connections		X	
Riser piping supports secure	X		
Defective or damaged instrumentation		X	
Damage to protective bollards or barriers		X	
Piping Network			
Observable leaking connections		X	
Lateral piping supports secure	X		
New air intakes within 10 ft of discharge points		X	
Discharge Fans			
Inoperable fan(s)		X	

Other Notable Observations

NA

Sub-Slab Depressurization System Inspection Form
Former Rollway Bearing Corporation Facility
Liverpool, New York

Date:	**12/6/2021**	**Inspector (print):**	Nate Winston
Time:	**9:00**	**Inspector (sign):**	

Weather Conditions 50 deg F, light rain

Reason for Visit (check all that apply):

Routine Inspection/O&M	**X**	Response to Owner Notification	
Other			

Vacuum Measurements

SSD Extraction Point	Vacuum Reading (in W.C.)	SSD Extraction Point	Vacuum Reading (in W.C.)
SSD-01	-8.48	SSD-13	-6.12
SSD-02	-0.8	SSD-14	-3.60
SSD-03	-0.50	SSD-15	-5.04
SSD-04	-27.30	SSD-16	-4.74
SSD-05	-0.48	SSD-17	-1.61
SSD-06	-26.47	SSD-18	-18.33
SSD-07	-23.50	SSD-19	-21.24
SSD-08	-0.71	SSD-20	-1.09
SSD-09	-26.07	SSD-21	-25.20
SSD-10	-0.48	SSD-22	-3.63
SSD-11	-1.21	SSD-23	-1.49
SSD-12	-18.44		

SSD Risers	Yes	No	Comments/Corrective Action Taken
Observable leaking connections		X	
Riser piping supports secure	X		
Defective or damaged instrumentation		X	
Damage to protective bollards or barriers		X	
Piping Network			
Observable leaking connections		X	
Lateral piping supports secure	X		
New air intakes within 10 ft of discharge points		X	
Discharge Fans			
Inoperable fan(s)	X		Possibly SSD-03

Other Notable Observations

NA