



7.14.2023

Renee Wawczak

Project Manager

United State Environmental Protection Agency
Region 5 (Mail Code LU-16J0)
77 W. Jackson Boulevard
Chicago, Illinois 60604-3590
Wawczak.Renee@epa.gov

Dear Renee:

RE: Quarterly Progress Report – Q2-2023

EPA Docket No RCRA-05-2020-0006

Former Cities Refinery, East Chicago, Indiana

This submission has been prepared on behalf of OXY USA Inc. (OXY) in accordance with the Section 3008(h) Resource Conservation and Recovery Act (RCRA), 42 U.S.C. § 6928(h) Administrative Order on Consent (AOC) (RCRA Docket No: RCRA-05-2020-0006 with an effective date of January 24, 2020) for the Former Cities Refinery at 2500 Rear East Chicago Avenue, East Chicago, Indiana (EPA ID: INR000123927, formerly part of IND095267381) (Site).

This report is organized to address reporting requirements set out in Section VII of the AOC. This report summarizes the activities conducted for and at the Site from April 1 through June 30, 2023.

1. Summary of Work Performed during the Reporting Period:

- Participated in project status calls including discussion on RFI progress with USEPA, CITGO, OXY, and GHD on April 20, and May 25, 2023.
- Conducted visual inspections of on-Site manhole structures on April 14, May 10, and June 29, 2023,
- Conducted cleaning of on-Site manhole structures on May 10th, 2023. An estimated 3 gallons of oil and oily-water were recovered and containerized. The oily water will be disposed of off-Site in accordance with applicable laws.



- Quarterly groundwater gauging and sampling event was conducted between June 12 to June 20, 2023.
2. Summary of Reports, and Other Deliverables Completed During the Reporting Period
 - Q1 2022 Quarterly Progress Report submitted April 12th, 2023.
 - Submitted environmental indicator reports, CA 725 and CA 750 on May 22, 2023.
 3. Summary of Problems Encountered and Planned Resolutions
 - None
 4. Summary of Results of Sampling, Tests, or Other Data Received or Generated
 - Figure 1 presents the groundwater contours for the June 2023 gauging event.
 - Figure 2 and Figure 3 present a summary of exceedances of groundwater screening criteria including up to the quarterly groundwater monitoring event completed in March 2023. The June 2023 sampling event data are undergoing data validation and will be provided in the next quarterly status report.
 - Table 1 presents the validated groundwater sampling results from the March 2023 quarterly monitoring event.
 5. Anticipated Activities During the Next Reporting Period
 - Complete validation of Q2-2023 quarterly sampling data.
 - Complete periodic inspections of on-Site manhole structures.
 - As requested by USEPA, the two years of post-RFI quarterly groundwater monitoring is complete as of the Q2-2023 quarterly sampling event. There are currently no additional scheduled groundwater sampling events. Upon review and submittal of the Q2-2023 sampling event data, the necessity for additional monitoring will be evaluated and discussed with USEPA.
 6. Project Schedule
 - Attachment A presents the currently anticipated project schedule.
 7. Percent Project Completed
 - At the time of this report, the project is approximately 80% completed.



CERTIFICATION

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 have no personal knowledge that the information submitted is other than 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.

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

David Sweeten

David Sweeten

DIRECTOR OF OPERATIONS

GLENN SPRINGS HOLDINGS, INC.

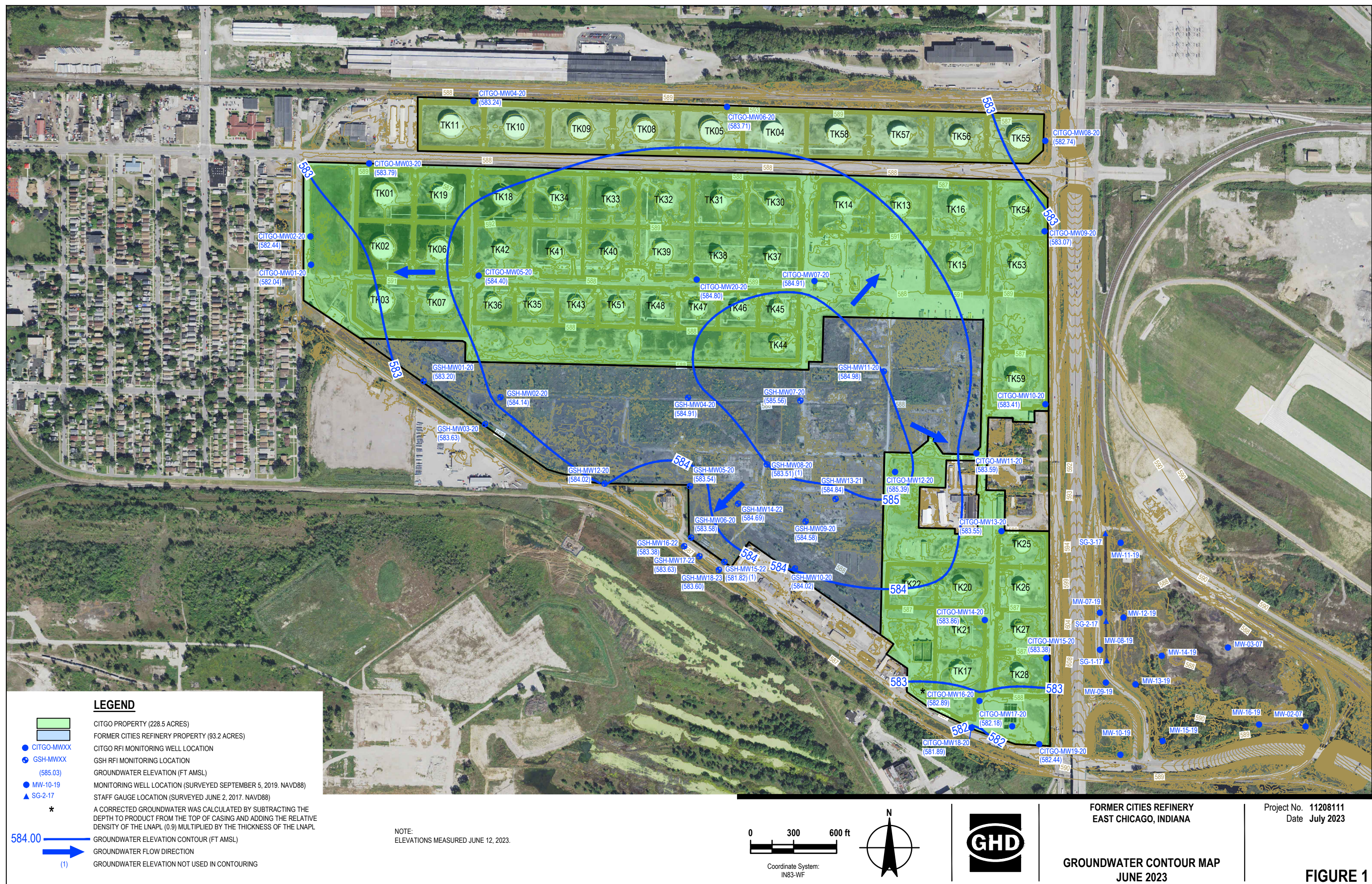
✉ David_Sweeten@oxy.com

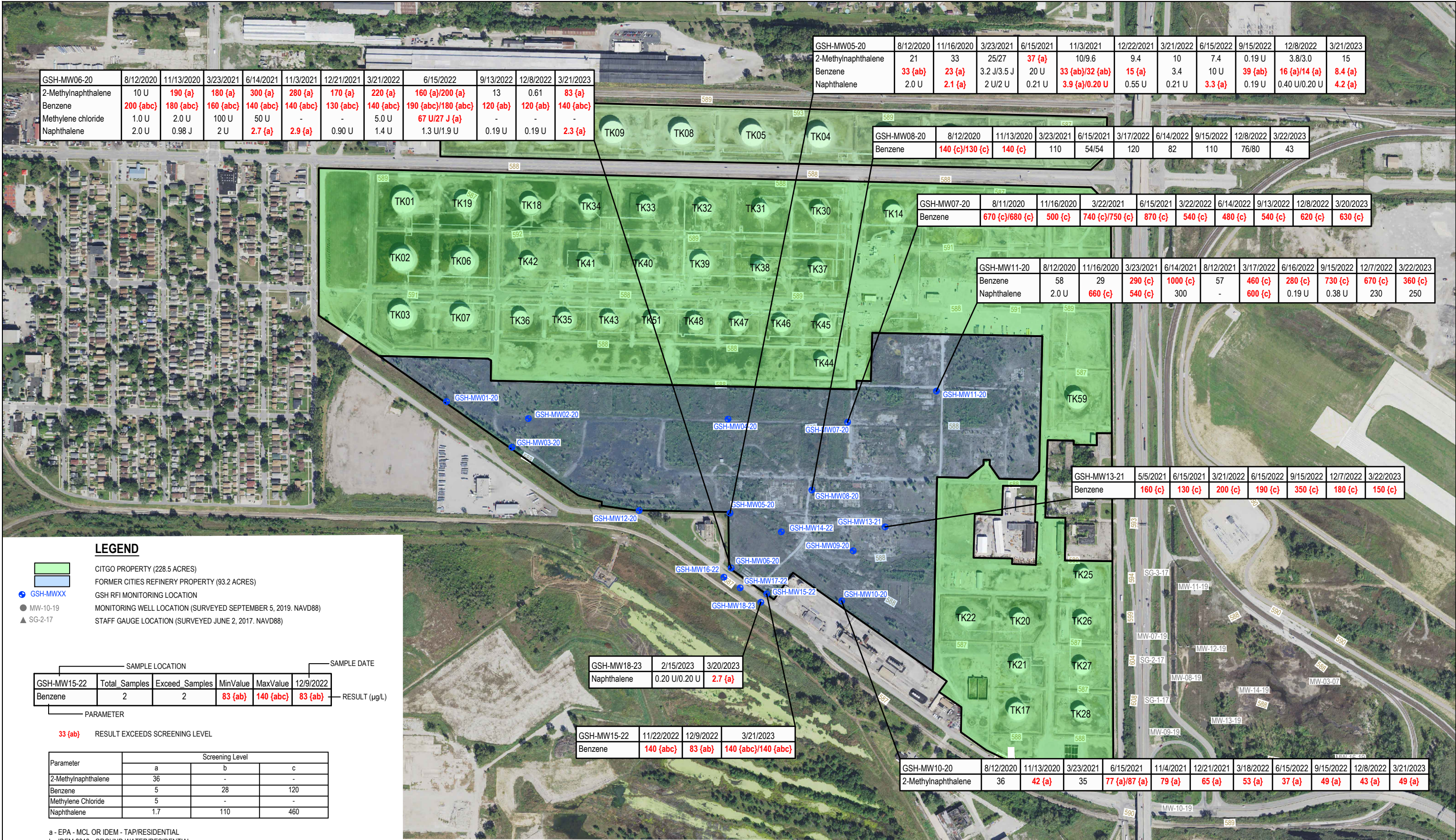
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cc: Gillian Asque, USEPA (asque.gillian@epa.gov)
Laura Whiting (Laura_Whiting@oxy.com)
Lloyd Landreth, Landreth Law (llandreth@landrethlaw.com)
Scott Buckner, CITGO (Sbuckne@citgo.com)
Mike Tomka, GHD (Michael.Tomka@ghd.com)
John-Eric Pardys, GHD (John-eric.Pardys@ghd.com)





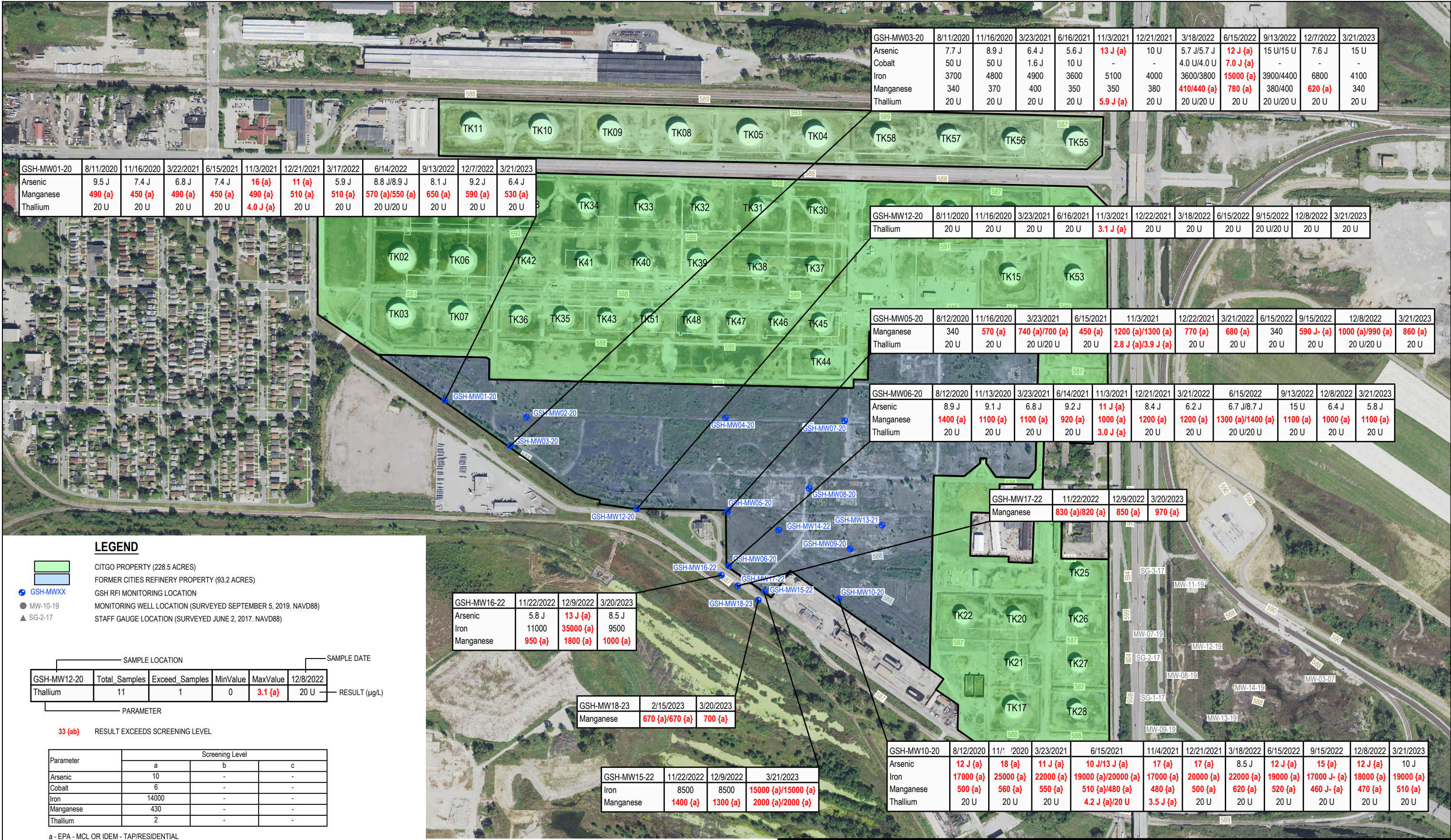


Table 1

**Former Cities Refinery
East Chicago, Indiana
Analytical Results Summary - March 2023**

Sample Location:		GSH-MW01-20	GSH-MW02-20	GSH-MW03-20	GSH-MW04-20	GSH-MW05-20	GSH-MW06-20	GSH-MW07-20	GSH-MW08-20	GSH-MW09-20	GSH-MW09-20
Sample ID:		WG-032123-NN-07	WG-032023-NN-05	WG-032123-NN-09	WG-032023-NN-01	WG-032123-NN-13	WG-032123-JL-12	WG-032023-NN-03	WG-032223-JL-19	WG-032223-JL-20	WG-032223-JL-18
Sample Date:		3/21/2023	3/20/2023	3/21/2023	3/20/2023	3/21/2023	3/21/2023	3/20/2023	3/22/2023	3/22/2023 (Duplicate)	3/22/2023
Parameters	Units										
Volatiles											
Benzene	ug/L	1.0 U	31	1.0 U	1.0 U	8.4	140	630	43	1.0 U	1.0 U
Semi-Volatiles											
2-Methylnaphthalene	ug/L	0.19 U	0.20 U	0.20 U	0.20 U	15	83	52	7.7	0.21	0.58
Naphthalene	ug/L	0.40	0.20 U	0.20 U	0.20 U	4.2	2.3	2.0 U	1.9	0.46	0.19 U
Metals											
Arsenic	ug/L	6.4 J	12 J	15 U	13 J	15 U	5.8 J	11 J	7.8 J	15 U	15 U
Iron	ug/L	13000	15000	4100	18000	4500	4500	7500	6700	2100	2200
Manganese	ug/L	530	910	340	690	860	1100	470	1000	460	380
Thallium	ug/L	20 U	20 U	20 U	20 U	20 U	20 U	3.0 J	20 U	20 U	20 U

Footnotes:

U Not detected at the associated reporting limit.
J Estimated concentration.

Table 1

**Former Cities Refinery
East Chicago, Indiana
Analytical Results Summary - March 2023**

Sample Location:		GSH-MW10-20	GSH-MW11-20	GSH-MW12-20	GSH-MW13-21	GSH-MW14-22	GSH-MW15-22	GSH-MW15-22	GSH-MW16-22	GSH-MW17-22	GSH-MW18-23
Sample ID:		WG-032123-JL-14	WG-032223-NN-15	WG-032123-NN-11	WG-032223-NN-17	WG-032123-JL-16	WG-032123-JL-10	WG-032123-JL-08	WG-032023-JL-02	WG-032023-JL-04	WG-032023-JL-06
Sample Date:		3/21/2023	3/22/2023	3/21/2023	3/22/2023	3/21/2023	3/21/2023 (Duplicate)	3/21/2023	3/20/2023	3/20/2023	3/20/2023
Parameters	Units										
Volatiles											
Benzene	ug/L	1.3	360	1.0 U	150	78	140	140	1.0 U	2.9	3.2
Semi-Volatiles											
2-Methylnaphthalene	ug/L	49	97	0.11 J	37	46	0.94	0.42	0.19 U	0.23	0.77 U
Naphthalene	ug/L	0.77 U	250	0.19 U	4.4	62	0.19 U	0.19 U	0.19 U	0.19 U	2.7
Metals											
Arsenic	ug/L	10 J	15 U	15 U	15 U	7.0 J	4.5 J	6.2 J	8.5 J	15 U	4.4 J
Iron	ug/L	19000	4100	840	5600	12000	15000	15000	9500	3100	4100
Manganese	ug/L	510	1800	120	1400	590	2000	2000	1000	970	700
Thallium	ug/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U

Footnotes:

U Not detected at the associated reporting limit.

J Estimated concentration.



ATTACHMENT A

Project Schedule

Project Schedule - AOC Former Cities Refinery East Chicago, IN																						
ID	Task Name	Duration	Start	Finish	2022 Q1	Q2	Q3	Q4	2023 Q1	Q2	Q3	Q4	2024 Q1	Q2	Q3	Q4	2025 Q1	Q2				
1	<u>Administrative</u>	965 days	<u>Fri 1/24/20</u>	<u>Mon 10/16/23</u>																		
2	Effective Date of AOC	1 day	Fri 1/24/20	Fri 1/24/20																		
3	Semi-Annual Meetings - Meeting with EPA either by phone or in person on at least a semi-annual basis	261 days	Fri 7/29/22	Fri 7/28/23																		
7	Quarterly Reports - Fifteenth day of the month after the end of each quarter	392 days	Fri 4/15/22	Mon 10/16/23																		
15	Financial Assurance Update (Updated annually and/or with subsequent work plans)	523 days	Mon 9/20/21	Thu 9/21/23																		
18	<u>RFI</u>	765 days	<u>Wed 7/1/20</u>	<u>Thu 6/15/23</u>																		
19	RFI Field Activities	12 mons	Wed 7/1/20	Wed 6/9/21																		
20	RFI Report Submitted	1 day	Fri 10/1/21	Fri 10/1/21																		
21	Public Meeting, including 30-Day Comment Period	1 mon	Wed 6/1/22	Tue 6/28/22		◆▨																
22	EPA Final Comments and Approval of RFI Report	1 day	Mon 8/1/22	Mon 8/1/22			◆															
23	Quarterly Groundwater Monitoring (Including Off-Site Monitoring Wells, once installed)	262 days	Wed 6/15/22	Thu 6/15/23																		
29	Installation of Off-Site Monitoring Wells	62 days	Mon 11/21/22	Tue 2/14/23				◆														
30	Environmental Indicators Reports submitted	1 day	Fri 5/19/23	Fri 5/19/23						◆												
31	<u>Final Corrective Measures</u>	421 days	<u>Wed 10/25/23</u>	<u>Wed 6/4/25</u>																		
32	Corrective Measures Proposal - Within 90 Days following 2 rounds of quarterly data from Off-Site Monitoring Wells	1 day	Wed 10/25/23	Wed 10/25/23														◆				
33	EPA review and comments (Schedule Timeframe Estimated)	3 mons	Thu 10/26/23	Wed 1/17/24															▨			
34	Public Meeting, including 30-Day Comment Period (Schedule Timeframe Estimated)	2 mons	Thu 1/18/24	Wed 3/13/24																▨		
35	EPA Final Decision (Schedule Timeframe Estimated)	2 mons	Thu 3/14/24	Wed 5/8/24																	▨	
36	Final Corrective Measures Implementation - (According to the schedule in the Final Decision, i.e. much of the construction completed within one year, or within a reasonable period of time after EPA selects the final corrective measures)	12 mons	Thu 5/9/24	Wed 4/9/25																		
37	Final Remedy Construction Completion Report (Including an Operation and Maintenance Plan)	2 mons	Thu 4/10/25	Wed 6/4/25																		
Project: Former Cities Refinery, East Chicago, IN Date: Fri 7/14/233:04 PM		Expected Timeframe	◆	Expected Date	◆	Summary																
		Contingent Timeframe	◆▨	Fixed Date	◆	Manual Progress																
Note: Per AOC, 'days' refers to calendar days Schedule subject to change based on regulatory reviews/approvals, weather, and other factors beyond Respondent's control																						