

From: [Kavanaugh, Jeffrey](#)
To: [Bryan, Jeffrey](#)
Cc: Tom.Baker@h2lawyers.com; [McCoy, Lisa](#)
Subject: Hagerstown VRP; ERC clarification
Date: Thursday, June 20, 2024 3:53:36 PM
Attachments: [IC figure.pdf](#)
[Hgrstwn RCR Table 9.pdf](#)
[Hgrstwn RWP Figure 12.pdf](#)
[image001.png](#)
[image002.png](#)

Good Afternoon Jeff –

IDEM has further evaluated the attached documents and the below explanation regarding the IDEM requested groundwater restriction and vapor intrusion language in the draft ERC (IDEM, May 9, 2024) as it relates to the Study Property.

The attached documents and explanation below include lines of evidence to support the exclusion of a vapor intrusion restriction for the off-site Study property. Although no groundwater sampling has occurred at the property, AECOM states that upgradient and downgradient groundwater sample results and upgradient soil gas results support this exclusion. A single upgradient well, GW-13, most recently yielded a TCE result of 70.0 ug/l in August 2021. Other nearby upgradient and downgradient wells were non-detect. Exterior soil gas samples located upgradient and near GW-13 yielded no TCE exceedances in 2023.

Based on these lines of evidence provided by AECOM, IDEM is agreeable that a vapor intrusion restriction language is not warranted for the Study property ERC, leaving only the groundwater use restriction.

If you have any questions, please let me know.

Sincerely, jk



Jeffrey J. Kavanaugh
Senior Environmental Manager
Voluntary Remediation Program
Remediation Services Branch

JKavanau@idem.IN.gov | (317) 234-0970

Office of Land Quality
Indiana Department of Environmental
Management

From: Bryan, Jeffrey <Jeffrey.Bryan@aecom.com>

Sent: Wednesday, June 5, 2024 6:14 PM

To: Kavanaugh, Jeffrey <JKAVANAU@idem.IN.gov>

Cc: Thomas W. Baker (tom.baker@h2lawyers.com) <tom.baker@h2lawyers.com>

Subject: Hagerstown VRP; ERC clarification

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Jeff,

Thank you for confirming that the highlighted parcel in the IC Figure (attached) is all that needs to be restricted. However, we don't believe that a vapor intrusion restriction is needed. GW-47, GW-13, and GW-11 are shallow wells generally upgradient of the parcel in question. (See RWP Fig. 12, attached.) The latest sampling results (See RCR Table 9, attached) show that only GW-13 had detections of TCE, at 70.0 µg/L. GW-47 and GW-11 were non-detect. Despite the one elevated groundwater sampling location, available information shows that this does not translate to VI concerns in this area of the site. Recent shallow soil gas results in this area (SG-03S through SG-06S) were below residential SGSs, with a maximum TCE detection of 7.7 µg/m³ since 2018 (see RWP Table 9I and RCR Addendum Table 3.) These sampling results are just upgradient of the parcel in question, within approximately 100 feet of the boundary. Finally, GW-15, located immediately downgradient of the property, is consistently non-detect. These lines of evidence support excluding a vapor intrusion restriction from an ERC.

Thank you,

Jeffrey D. Bryan LPG

Sr. Hydrogeologist & Project Manager, US West Environment

M +1 812 322 3163

jeffrey.bryan@aecom.com

AECOM

101 W. Ohio St.

Suite 810

Indianapolis, IN 46204, United States

T 1-317-532-5400

aecom.com

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Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-11	GW-11	GW-11	GW-11	GW-11	GW-12	GW-12	GW-12	GW-12	GW-12	GW-13	GW-13	GW-13
				Shallow 2019-09-17 Q1 Primary	Shallow 2019-12-13 Q2 Primary	Shallow 2020-04-21 Q4 Primary	Shallow 2020-12-15 Q5 Primary	Shallow 2021-08-24 Q8 Primary	Deep 2019-09-20 Q1 Primary	Deep 2019-12-13 Q2 Primary	Deep 2020-04-21 Q4 Primary	Deep 2020-12-15 Q5 Primary	Deep 2021-08-24 Q8 Primary	Shallow 2019-09-17 Q1 Primary	Shallow 2019-12-13 Q2 Primary	Shallow 2020-04-21 Q4 Primary
Field																
pH (SU)	NA	NA		7.18	6.82	7.35	7.19	7.09	7.18	6.76	6.88	7.15	7.21	7.21	6.25	7.12
SpC (uMhos/cm)	NA	NA		708.0	758.0	554.0	559.0	738.0	893.0	825.0	710.0	623.0	711.0	642.0	288.0	730.0
Temperature (°C)	NA	NA		15.3	12.7	10.7	10.7	15.9	15.4	14.1	13.4	10.9	16.9	19.3	13.0	11.3
Turbidity (ntu)	NA	NA		88.00	0.00	13.97	0.00	8.90	0.00	0.00	18.32	12.40	16.10	71.80	0.00	19.83
Dissolved Oxygen (mg/l)	NA	NA		1.70	0.00	1.53	1.03	0.56	0.20	0.00	2.57	0.12	2.39	2.70	0.16	2.80
ORP (mv)	NA	NA		-61.0	-132.6	-3.2	145.0	46.8	-8.3	58.6	54.6	156.0	105.2	28.6	-138.3	71.9
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

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 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-11	GW-11	GW-11	GW-11	GW-11	GW-12	GW-12	GW-12	GW-12	GW-12	GW-13	GW-13	GW-13
				Shallow 2019-09-17 Q1 Primary	Shallow 2019-12-13 Q2 Primary	Shallow 2020-04-21 Q4 Primary	Shallow 2020-12-15 Q5 Primary	Shallow 2021-08-24 Q8 Primary	Deep 2019-09-20 Q1 Primary	Deep 2019-12-13 Q2 Primary	Deep 2020-04-21 Q4 Primary	Deep 2020-12-15 Q5 Primary	Deep 2021-08-24 Q8 Primary	Shallow 2019-09-17 Q1 Primary	Shallow 2019-12-13 Q2 Primary	Shallow 2020-04-21 Q4 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

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 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-11	GW-11	GW-11	GW-11	GW-11	GW-12	GW-12	GW-12	GW-12	GW-12	GW-13	GW-13	GW-13	
				Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Deep	Deep	Deep	Shallow	Shallow	Shallow	
				2019-09-17	2019-12-13	2020-04-21	2020-12-15	2021-08-24	2019-09-20	2019-12-13	2020-04-21	2020-12-15	2021-08-24	2019-09-17	2019-12-13	2020-04-21	
				Q1	Q2	Q4	Q5	Q8	Q1	Q2	Q4	Q5	Q8	Q1	Q2	Q4	
				Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	
VOCs (ug/l)																	
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	65.4	85.4	80.4
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-13	GW-13	GW-13	GW-14	GW-14	GW-14	GW-14	GW-14	GW-14	GW-15	GW-15	GW-15	GW-15	GW-15
				Shallow 2020-12-15 Q5 Primary	Shallow 2021-05-17 Q7 Primary	Shallow 2021-08-24 Q8 Primary	Deep 2019-08-15 Q1 Primary	Deep 2019-11-06 Q2 Primary	Deep 2020-02-06 Q3 Primary	Deep 2020-05-28 Q4 Primary	Deep 2021-08-23 Q8 Primary	Shallow 2019-08-15 Q1 Primary	Shallow 2019-11-06 Q2 Primary	Shallow 2020-02-06 Q3 Primary	Shallow 2020-05-28 Q4 Primary	Shallow 2021-08-23 Q8 Primary	
Field																	
pH (SU)	NA	NA		7.68	8.41	7.11	7.29	7.17	7.23	7.00	6.86	7.48	7.37	7.36	7.40	7.33	
SpC (uMhos/cm)	NA	NA		535.0	711.0	572.0	380.0	541.0	613.0	695.7	523.0	594.0	602.0	560.0	627.1	536.0	
Temperature (°C)	NA	NA		5.3	12.17	13.55	12.30	12.30	12.26	12.47	12.37	12.50	12.80	12.73	12.02	12.17	
Turbidity (ntu)	NA	NA		3.80	2.27	31.13	52.9	22.3	18.3	131.0	16.60	329.6	340.3	58.9	529.1	554.16	
Dissolved Oxygen (mg/l)	NA	NA		-	-	0.30	5.00	1.80	0.31	0.35	0.41	1.20	1.10	0.69	3.14	1.37	
ORP (mv)	NA	NA		124.0	483.1	118.3	72.6	-105.4	-110.9	139.8	-159.4	105.5	37.8	-31.2	63.4	-13.9	
VOCs (ug/l)																	
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

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Former Dana Perfect Circle Site
551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-13	GW-13	GW-13	GW-14	GW-14	GW-14	GW-14	GW-14	GW-14	GW-15	GW-15	GW-15	GW-15	GW-15
				Shallow 2020-12-15 Q5 Primary	Shallow 2021-05-17 Q7 Primary	Shallow 2021-08-24 Q8 Primary	Deep 2019-08-15 Q1 Primary	Deep 2019-11-06 Q2 Primary	Deep 2020-02-06 Q3 Primary	Deep 2020-05-28 Q4 Primary	Deep 2021-08-23 Q8 Primary	Shallow 2019-08-15 Q1 Primary	Shallow 2019-11-06 Q2 Primary	Shallow 2020-02-06 Q3 Primary	Shallow 2020-05-28 Q4 Primary	Shallow 2021-08-23 Q8 Primary	
VOCs (ug/l)																	
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.2	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7	<1.7	<1.7	<1.2
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

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 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-13	GW-13	GW-13	GW-14	GW-14	GW-14	GW-14	GW-14	GW-14	GW-15	GW-15	GW-15	GW-15	GW-15
				Shallow	Shallow	Shallow	Deep	Deep	Deep	Deep	Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
				2020-12-15	2021-05-17	2021-08-24	2019-08-15	2019-11-06	2020-02-06	2020-05-28	2021-08-23	2019-08-15	2019-11-06	2020-02-06	2020-05-28	2021-08-23	
				Q5	Q7	Q8	Q1	Q2	Q3	Q4	Q8	Q1	Q2	Q3	Q4	Q8	
				Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	
VOCs (ug/l)																	
Trichloroethene	5.0	9.1		76.3	67.0	70.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

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 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-16	GW-16	GW-16	GW-16	GW-16	GW-16	GW-16	GW-16	GW-16	GW-16	GW-16	GW-17	GW-17
				Deep 2019-08-15 Q1 Primary	Deep 2019-08-15 Q1 Duplicate	Deep 2019-11-06 Q2 Primary	Deep 2019-11-06 Q2 Duplicate	Deep 2020-02-04 Q3 Primary	Deep 2020-02-04 Q3 Duplicate	Deep 2020-05-29 Q4 Primary	Deep 2020-05-29 Q4 Duplicate	Deep 2021-06-03 Q7 Primary	Deep 2021-08-19 Q8 Primary	Deep 2021-08-19 Q8 Duplicate	Shallow 2019-08-15 Q1 Primary	Shallow 2019-11-06 Q2 Primary
Field																
pH (SU)	NA	NA		7.49	7.49	7.38	7.38	7.48	7.48	7.28	7.28	7.30	7.36	7.36	7.41	7.25
SpC (uMhos/cm)	NA	NA		592.0	592.0	612.0	612.0	617.0	617.0	648.0	648.0	617.0	578.0	578.0	535.0	577.0
Temperature (°C)	NA	NA		12.20	12.20	11.50	11.50	13.93	13.93	14.35	14.35	14.47	12.53	12.53	11.90	13.30
Turbidity (ntu)	NA	NA		15.7	15.7	9.9	9.9	55.8	55.8	47.3	47.3	69.31	56.41	56.41	116.7	212.1
Dissolved Oxygen (mg/l)	NA	NA		3.10	3.10	1.50	1.50	0.98	0.98	1.18	1.18	4.79	4.51	4.51	1.30	0.50
ORP (mv)	NA	NA		132.2	132.2	58.0	58.0	48.4	48.4	121.6	121.6	129.9	-72.7	-72.7	132.2	63.3
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
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 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-16	GW-16	GW-16	GW-16	GW-16	GW-16	GW-16	GW-16	GW-16	GW-16	GW-16	GW-17	GW-17
				Deep 2019-08-15 Q1 Primary	Deep 2019-08-15 Q1 Duplicate	Deep 2019-11-06 Q2 Primary	Deep 2019-11-06 Q2 Duplicate	Deep 2020-02-04 Q3 Primary	Deep 2020-02-04 Q3 Duplicate	Deep 2020-05-29 Q4 Primary	Deep 2020-05-29 Q4 Duplicate	Deep 2021-06-03 Q7 Primary	Deep 2021-08-19 Q8 Primary	Deep 2021-08-19 Q8 Duplicate	Shallow 2019-08-15 Q1 Primary	Shallow 2019-11-06 Q2 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		5.3	<5.0	8.8	9.8	9.0	8.9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.2	<1.2	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
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 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-16	GW-16	GW-16	GW-16	GW-16	GW-16	GW-16	GW-16	GW-16	GW-16	GW-16	GW-17	GW-17
				Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep
				2019-08-15	2019-08-15	2019-11-06	2019-11-06	2020-02-04	2020-02-04	2020-05-29	2020-05-29	2021-06-03	2021-08-19	2021-08-19	2019-08-15	2019-11-06
				Q1	Q1	Q2	Q2	Q3	Q3	Q4	Q4	Q7	Q8	Q8	Q1	Q2
				Primary	Duplicate	Primary	Duplicate	Primary	Duplicate	Primary	Duplicate	Primary	Primary	Duplicate	Primary	Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		20.8	12.7	16.5	15.0	23.6	22.6	18.9	19.2	13.4	10.0	10.4	7.6	7.8
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-17	GW-17	GW-17	GW-17	GW-18	GW-19	GW-20	GW-20	GW-20	GW-20	GW-20	GW-21	GW-21
				Shallow 2020-02-04 Q3 Primary	Shallow 2020-05-29 Q4 Primary	Shallow 2021-06-03 Q7 Primary	Shallow 2021-08-19 Q8 Primary	Intermediate 2021-06-01 IDEM Req Primary	Shallow 2021-06-01 IDEM Req Primary	Deep 2019-08-21 Q1 Primary	Deep 2019-11-26 Q2 Primary	Deep 2020-02-18 Q3 Primary	Deep 2020-05-28 Q4 Primary	Deep 2021-08-27 Q8 Primary	Shallow 2019-11-26 Q2 Primary	Shallow 2020-02-18 Q3 Primary
Field																
pH (SU)	NA	NA		7.34	7.25	7.16	7.22	7.3	6.92	7.49	7.39	7.29	7.27	7.35	7.23	7.85
SpC (uMhos/cm)	NA	NA		587.0	639.0	602.0	543.0	482.80	675.0	591.0	571.0	683.0	606.0	612.0	659.0	792.0
Temperature (°C)	NA	NA		14.52	14.09	13.79	12.29	13.40	12.40	13.60	10.80	9.56	13.10	14.20	10.60	7.48
Turbidity (ntu)	NA	NA		35.4	82.6	73.42	124.96	8.22	0.87	26.2	4.6	29.27	8.17	21.76	0.5	28.2
Dissolved Oxygen (mg/l)	NA	NA		0.22	0.05	2.57	1.87	1.39	0.09	0.80	1.06	0.21	0.71	1.00	5.61	2.59
ORP (mv)	NA	NA		42.7	47.8	20.9	45.9	88.2	122.1	-97.4	-69.8	-135.4	-100.7	-84.6	96.5	87.2
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
Former Dana Perfect Circle Site
551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-17 Shallow 2020-02-04 Q3 Primary	GW-17 Shallow 2020-05-29 Q4 Primary	GW-17 Shallow 2021-06-03 Q7 Primary	GW-17 Shallow 2021-08-19 Q8 Primary	GW-18 Intermediate 2021-06-01 IDEM Req Primary	GW-19 Shallow 2021-06-01 IDEM Req Primary	GW-20 Deep 2019-08-21 Q1 Primary	GW-20 Deep 2019-11-26 Q2 Primary	GW-20 Deep 2020-02-18 Q3 Primary	GW-20 Deep 2020-05-28 Q4 Primary	GW-20 Deep 2021-08-27 Q8 Primary	GW-21 Shallow 2019-11-26 Q2 Primary	GW-21 Shallow 2020-02-18 Q3 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.2	<1.2	<1.2	<1.2	<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-17	GW-17	GW-17	GW-17	GW-18	GW-19	GW-20	GW-20	GW-20	GW-20	GW-20	GW-21	GW-21
				Shallow	Shallow	Shallow	Shallow	Intermediate	Shallow	Deep	Deep	Deep	Deep	Deep	Shallow	Shallow
				2020-02-04	2020-05-29	2021-06-03	2021-08-19	2021-06-01	2021-06-01	2019-08-21	2019-11-26	2020-02-18	2020-05-28	2021-08-27	2019-11-26	2020-02-18
				Q3	Q4	Q7	Q8	IDEM Req	IDEM Req	Q1	Q2	Q3	Q4	Q8	Q2	Q3
				Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		8.3	8.7	<5.0	<5.0	33.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-21	GW-21	GW-22	GW-22	GW-22	GW-22	GW-22	GW-22	GW-23	GW-23	GW-23	GW-23	GW-23
				Shallow 2020-05-28 Q4 Primary	Shallow 2021-08-27 Q8 Primary	Intermediate 2019-08-16 Q1 Primary	Intermediate 2019-11-07 Q2 Primary	Intermediate 2020-02-05 Q3 Primary	Intermediate 2020-05-06 Q4 Primary	Intermediate 2021-02-22 Q6 Primary	Intermediate 2021-08-24 Q8 Primary	Deep 2019-08-15 Q1 Primary	Deep 2019-11-06 Q2 Primary	Deep 2020-02-04 Q3 Primary	Deep 2020-05-29 Q4 Primary	Deep 2021-08-24 Q8 Primary
Field																
pH (SU)	NA	NA		7.04	7.04	7.77	7.61	7.63	7.63	7.73	7.43	7.26	7.19	7.58	7.16	7.22
SpC (uMhos/cm)	NA	NA		723.0	729.0	506.0	635.0	569.0	533.3	1289.0	510.0	657.0	648.0	489.0	669.0	508.0
Temperature (°C)	NA	NA		13.60	14.60	9.10	10.70	15.90	13.23	14.93	8.73	11.70	12.10	11.98	12.20	12.37
Turbidity (ntu)	NA	NA		13.2	2.09	31.6	48.8	13.0	102.2	7.3	67.83	171.7	2210.8	80.4	1557.10	447.24
Dissolved Oxygen (mg/l)	NA	NA		6.49	5.58	6.20	2.30	4.37	6.41	4.44	3.07	8.00	0.50	0.07	0.05	0.50
ORP (mv)	NA	NA		104.6	155.2	8.4	44.0	40.9	202.4	228.4	119.2	142.5	5.4	-145.6	-77.2	-68.7
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
Former Dana Perfect Circle Site
551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-21	GW-21	GW-22	GW-22	GW-22	GW-22	GW-22	GW-22	GW-23	GW-23	GW-23	GW-23	GW-23
				Shallow 2020-05-28 Q4 Primary	Shallow 2021-08-27 Q8 Primary	Intermediate 2019-08-16 Q1 Primary	Intermediate 2019-11-07 Q2 Primary	Intermediate 2020-02-05 Q3 Primary	Intermediate 2020-05-06 Q4 Primary	Intermediate 2021-02-22 Q6 Primary	Intermediate 2021-08-24 Q8 Primary	Deep 2019-08-15 Q1 Primary	Deep 2019-11-06 Q2 Primary	Deep 2020-02-04 Q3 Primary	Deep 2020-05-29 Q4 Primary	Deep 2021-08-24 Q8 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7	<1.7	<1.7	<1.2
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
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 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-21	GW-21	GW-22	GW-22	GW-22	GW-22	GW-22	GW-22	GW-23	GW-23	GW-23	GW-23	GW-23
				Shallow 2020-05-28 Q4 Primary	Shallow 2021-08-27 Q8 Primary	Intermediate 2019-08-16 Q1 Primary	Intermediate 2019-11-07 Q2 Primary	Intermediate 2020-02-05 Q3 Primary	Intermediate 2020-05-06 Q4 Primary	Intermediate 2021-02-22 Q6 Primary	Intermediate 2021-08-24 Q8 Primary	Deep 2019-08-15 Q1 Primary	Deep 2019-11-06 Q2 Primary	Deep 2020-02-04 Q3 Primary	Deep 2020-05-29 Q4 Primary	Deep 2021-08-24 Q8 Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-24	GW-24	GW-24	GW-24	GW-24	GW-25	GW-25	GW-25	GW-25	GW-25	GW-25	GW-26	GW-26
				Shallow 2019-08-15 Q1 Primary	Shallow 2019-11-06 Q2 Primary	Shallow 2020-02-04 Q3 Primary	Shallow 2020-05-29 Q4 Primary	Shallow 2021-08-24 Q8 Primary	Shallow 2019-08-16 Q1 Primary	Shallow 2019-11-06 Q2 Primary	Shallow 2020-02-07 Q3 Primary	Shallow 2020-05-28 Q4 Primary	Shallow 2021-06-03 Q7 Primary	Shallow 2021-08-23 Q8 Primary	Intermediate 2019-08-16 Q1 Primary	Intermediate 2019-11-06 Q2 Primary
Field																
pH (SU)	NA	NA		7.40	7.17	7.34	7.41	7.35	7.10	6.93	6.98	7.21	6.94	6.94	7.42	7.27
SpC (uMhos/cm)	NA	NA		539.0	676.0	632.0	681.0	-	630.0	708.0	640.0	654.3	678.0	621.0	638.0	646.0
Temperature (°C)	NA	NA		12.10	11.70	11.18	11.89	19.29	11.40	12.80	11.94	10.88	11.15	13.96	11.80	13.00
Turbidity (ntu)	NA	NA		756.7	32.3	253.2	181.2	33.86	152	109.5	29.9	44.6	61.71	94.32	59.8	863.1
Dissolved Oxygen (mg/l)	NA	NA		0.30	5.10	3.63	7.41	8.59	0.50	0.60	0.22	2.23	0.33	0.41	1.70	0.80
ORP (mv)	NA	NA		-77.8	78.8	-7.2	89.2	115.1	-25.1	-6.4	15.9	13.6	-74.8	83.0	103.0	170.4
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-24	GW-24	GW-24	GW-24	GW-24	GW-25	GW-25	GW-25	GW-25	GW-25	GW-25	GW-26	GW-26
				Shallow 2019-08-15 Q1 Primary	Shallow 2019-11-06 Q2 Primary	Shallow 2020-02-04 Q3 Primary	Shallow 2020-05-29 Q4 Primary	Shallow 2021-08-24 Q8 Primary	Shallow 2019-08-16 Q1 Primary	Shallow 2019-11-06 Q2 Primary	Shallow 2020-02-07 Q3 Primary	Shallow 2020-05-28 Q4 Primary	Shallow 2021-06-03 Q7 Primary	Shallow 2021-08-23 Q8 Primary	Intermediate 2019-08-16 Q1 Primary	Intermediate 2019-11-06 Q2 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.2	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-24	GW-24	GW-24	GW-24	GW-24	GW-25	GW-25	GW-25	GW-25	GW-25	GW-25	GW-26	GW-26	
				Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate
				2019-08-15	2019-11-06	2020-02-04	2020-05-29	2021-08-24	2019-08-16	2019-11-06	2020-02-07	2020-05-28	2021-06-03	2021-08-23	2019-08-16	2019-11-06	
				Q1	Q2	Q3	Q4	Q8	Q1	Q2	Q3	Q4	Q7	Q8	Q1	Q2	
				Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	
VOCs (ug/l)																	
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	23.4	22.5
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-26	GW-26	GW-26	GW-26	GW-27	GW-27	GW-27	GW-27	GW-27	GW-27	GW-27	GW-28	GW-28
				Intermediate 2020-02-07 Q3 Primary	Intermediate 2020-05-28 Q4 Primary	Intermediate 2021-06-03 Q7 Primary	Intermediate 2021-08-23 Q8 Primary	Shallow 2019-08-16 Q1 Primary	Shallow 2019-11-06 Q2 Primary	Shallow 2019-11-06 Q2 Duplicate	Shallow 2020-02-07 Q3 Primary	Shallow 2020-05-28 Q4 Primary	Shallow 2021-06-03 Q7 Primary	Shallow 2021-08-23 Q8 Primary	Intermediate 2019-08-16 Q1 Primary	Intermediate 2019-11-06 Q2 Primary
Field																
pH (SU)	NA	NA		7.28	7.54	7.32	7.32	7.43	7.26	7.26	7.29	6.91	7.21	7.19	7.54	7.32
SpC (uMhos/cm)	NA	NA		575.0	605.6	590.0	550.0	613.0	628.0	628.0	585.0	627.3	592.0	559.0	615.0	641.0
Temperature (°C)	NA	NA		12.75	12.59	11.86	13.39	11.70	12.00	12.00	10.58	11.53	12.06	12.39	12.00	11.80
Turbidity (ntu)	NA	NA		169.9	25.9	224.56	85.73	222	79.8	79.8	65.9	953.0	26.38	107.54	92.4	71.5
Dissolved Oxygen (mg/l)	NA	NA		0.86	8.84	4.18	4.79	1.30	0.70	0.70	2.55	0.17	0.62	0.85	5.50	3.40
ORP (mv)	NA	NA		57.6	104.9	22.9	89.3	75.5	205.2	205.2	111.3	-69.9	114.0	49.4	61.6	208.4
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
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551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-26	GW-26	GW-26	GW-26	GW-27	GW-27	GW-27	GW-27	GW-27	GW-27	GW-27	GW-28	GW-28
				Intermediate 2020-02-07 Q3 Primary	Intermediate 2020-05-28 Q4 Primary	Intermediate 2021-06-03 Q7 Primary	Intermediate 2021-08-23 Q8 Primary	Shallow 2019-08-16 Q1 Primary	Shallow 2019-11-06 Q2 Primary	Shallow 2019-11-06 Q2 Duplicate	Shallow 2020-02-07 Q3 Primary	Shallow 2020-05-28 Q4 Primary	Shallow 2021-06-03 Q7 Primary	Shallow 2021-08-23 Q8 Primary	Intermediate 2019-08-16 Q1 Primary	Intermediate 2019-11-06 Q2 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.2	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.2	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-26	GW-26	GW-26	GW-26	GW-27	GW-27	GW-27	GW-27	GW-27	GW-27	GW-27	GW-28	GW-28
				Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate
				2020-02-07	2020-05-28	2021-06-03	2021-08-23	2019-08-16	2019-11-06	2019-11-06	2020-02-07	2020-05-28	2021-06-03	2021-08-23	2019-08-16	2019-11-06
				Q3	Q4	Q7	Q8	Q1	Q2	Q2	Q3	Q4	Q7	Q8	Q1	Q2
				Primary	Primary	Primary	Primary	Primary	Primary	Duplicate	Primary	Primary	Primary	Primary	Primary	Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		21.9	19.2	18.8	23.0	26.5	36.8	25.8	34.8	31.9	31.3	33.8	15.2	19.7
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-28	GW-28	GW-28	GW-28	GW-29	GW-30	GW-31	GW-31	GW-31	GW-31	GW-31	GW-31	GW-32
				Intermediate 2020-02-07 Q3 Primary	Intermediate 2020-05-28 Q4 Primary	Intermediate 2021-06-03 Q7 Primary	Intermediate 2021-08-23 Q8 Primary	Shallow 2021-06-25 IDEM Req Primary	Intermediate 2021-06-25 IDEM Req Primary	Shallow 2019-08-16 Q1 Primary	Shallow 2019-11-06 Q2 Primary	Shallow 2019-02-06 Q3 Primary	Shallow 2020-05-27 Q4 Primary	Shallow 2021-06-03 Q7 Primary	Shallow 2021-08-24 Q8 Primary	Deep 2019-08-16 Q1 Primary
Field																
pH (SU)	NA	NA		7.46	6.90	7.30	7.27	7.1	7.17	7.39	7.24	7.33	7.33	7.29	7.33	7.43
SpC (uMhos/cm)	NA	NA		577.0	710.4	580.0	543.0	559.0	520.0	575.0	560.0	488.0	552.7	496.0	468.7	589.0
Temperature (°C)	NA	NA		12.36	10.69	12.71	11.53	12.90	13.40	12.50	12.60	11.66	11.77	12.23	12.67	12.10
Turbidity (ntu)	NA	NA		44.2	49.3	147.64	53.96	22.43	13.52	6.6	17.4	42.4	113.6	65.70	4.75	23.2
Dissolved Oxygen (mg/l)	NA	NA		5.56	0.14	1.42	3.37	0.62	1.46	0.40	0.40	0.30	0.71	0.34	0.25	1.20
ORP (mv)	NA	NA		111.9	-70.1	-54.4	93.1	75.1	78.2	92.3	213.5	-63.5	168.5	-91.6	-76.2	92.7
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
Former Dana Perfect Circle Site
551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-28 Intermediate 2020-02-07 Q3 Primary	GW-28 Intermediate 2020-05-28 Q4 Primary	GW-28 Intermediate 2021-06-03 Q7 Primary	GW-28 Intermediate 2021-08-23 Q8 Primary	GW-29 Shallow 2021-06-25 IDEM Req Primary	GW-30 Intermediate 2021-06-25 IDEM Req Primary	GW-31 Shallow 2019-08-16 Q1 Primary	GW-31 Shallow 2019-11-06 Q2 Primary	GW-31 Shallow 2019-02-06 Q3 Primary	GW-31 Shallow 2020-05-27 Q4 Primary	GW-31 Shallow 2021-06-03 Q7 Primary	GW-31 Shallow 2021-08-24 Q8 Primary	GW-32 Deep 2019-08-16 Q1 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.2	<1.2	<1.2	<1.2	<1.7	<1.7	<1.7	<1.7	<1.2	<1.2	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-28	GW-28	GW-28	GW-28	GW-29	GW-30	GW-31	GW-31	GW-31	GW-31	GW-31	GW-31	GW-32
				Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Deep
				2020-02-07	2020-05-28	2021-06-03	2021-08-23	2021-06-25	2021-06-25	2019-08-16	2019-11-06	2019-02-06	2020-05-27	2021-06-03	2021-08-24	2019-08-16
				Q3	Q4	Q7	Q8	IDEM Req	IDEM Req	Q1	Q2	Q3	Q4	Q7	Q8	Q1
				Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		13.5	18.7	17.7	19.3	<5.0	27.9	15.6	17.6	13.9	14.2	12.1	12.1	14.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

bold = Detected Value

italics = Reporting Limit > RDCL

bold + yellow = Detected > RDCL

bold + orange = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-32	GW-32	GW-32	GW-32	GW-32	GW-32	GW-33	GW-33	GW-33	GW-33	GW-33	GW-33	GW-33
				Deep 2019-11-06 Q2 Primary	Deep 2019-11-06 Q2 Duplicate	Deep 2019-02-06 Q3 Primary	Deep 2020-05-27 Q4 Primary	Deep 2021-06-03 Q7 Primary	Deep 2021-08-24 Q8 Primary	Shallow 2019-08-15 Q1 Primary	Shallow 2019-08-15 Q1 Duplicate	Shallow 2019-11-06 Q2 Primary	Shallow 2019-11-06 Q2 Duplicate	Shallow 2019-02-06 Q3 Primary	Shallow 2019-02-06 Q3 Duplicate	Shallow 2020-05-27 Q4 Primary
Field																
pH (SU)	NA	NA		7.24	7.24	7.43	7.24	7.33	7.33	7.45	7.45	7.14	7.14	7.29	7.29	7.30
SpC (uMhos/cm)	NA	NA		619.0	619.0	559.0	591.3	536.0	495.0	593.0	593.0	579.0	579.0	529.0	529.0	615.4
Temperature (°C)	NA	NA		12.30	12.30	12.25	12.09	12.45	12.47	12.80	12.80	13.50	13.50	12.54	12.54	12.54
Turbidity (ntu)	NA	NA		46.3	46.3	52.4	27.3	20.43	10.87	196.3	196.3	1184.8	1184.8	79.8	79.8	181.4
Dissolved Oxygen (mg/l)	NA	NA		1.20	1.20	4.35	1.09	3.92	0.30	0.60	0.60	1.70	1.70	0.31	0.31	2.05
ORP (mv)	NA	NA		215.0	215.0	34.2	185.1	68.2	26.0	52.0	-	228.8	228.8	59.0	59.0	207.3
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-32 Deep 2019-11-06 Q2 Primary	GW-32 Deep 2019-11-06 Q2 Duplicate	GW-32 Deep 2019-02-06 Q3 Primary	GW-32 Deep 2020-05-27 Q4 Primary	GW-32 Deep 2021-06-03 Q7 Primary	GW-32 Deep 2021-08-24 Q8 Primary	GW-33 Shallow 2019-08-15 Q1 Primary	GW-33 Shallow 2019-08-15 Q1 Duplicate	GW-33 Shallow 2019-11-06 Q2 Primary	GW-33 Shallow 2019-11-06 Q2 Duplicate	GW-33 Shallow 2019-02-06 Q3 Primary	GW-33 Shallow 2019-02-06 Q3 Duplicate	GW-33 Shallow 2020-05-27 Q4 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.7	<1.2	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-32	GW-32	GW-32	GW-32	GW-32	GW-32	GW-33	GW-33	GW-33	GW-33	GW-33	GW-33	GW-33
				Deep	Deep	Deep	Deep	Deep	Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
				2019-11-06	2019-11-06	2019-02-06	2020-05-27	2021-06-03	2021-08-24	2019-08-15	2019-08-15	2019-11-06	2019-11-06	2019-02-06	2019-02-06	2020-05-27
				Q2	Q2	Q3	Q4	Q7	Q8	Q1	Q1	Q2	Q2	Q3	Q3	Q4
				Primary	Duplicate	Primary	Primary	Primary	Primary	Primary	Duplicate	Primary	Duplicate	Primary	Duplicate	Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		29.2	22.5	20.5	24.9	24.8	24.7	42.2	41.9	47.6	57.0	38.1	38.1	39.5
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

- (1) RISC Residential Default Closure Levels (IDEM, 2009)
- (2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)
- (3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-33	GW-33	GW-33	GW-34	GW-34	GW-34	GW-34	GW-34	GW-34	GW-34	GW-37	GW-37	GW-37	GW-37
				Shallow 2020-05-27 Q4 Duplicate	Shallow 2021-06-02 Q7 Primary	Shallow 2021-08-23 Q8 Primary	Intermediate 2019-08-15 Q1 Primary	Intermediate 2019-11-06 Q2 Primary	Intermediate 2019-02-06 Q3 Primary	Intermediate 2020-05-27 Q4 Primary	Intermediate 2021-06-02 Q7 Primary	Intermediate 2021-08-23 Q8 Primary	Intermediate 2019-08-20 Q1 Primary	Intermediate 2019-11-21 Q2 Primary	Intermediate 2020-02-18 Q3 Primary	Intermediate 2020-05-20 Q4 Primary	
Field																	
pH (SU)	NA	NA		7.30	7.40	7.23	7.44	6.82	7.31	7.29	7.67	7.29	7.67	7.07	7.15	6.85	
SpC (uMhos/cm)	NA	NA		615.4	455.0	529.0	587.0	635.0	577.0	611.2	581.0	516.0	1366.0	682.0	778.0	1170.0	
Temperature (°C)	NA	NA		12.54	12.48	13.09	12.40	12.40	12.32	12.87	12.77	12.77	17.60	11.30	7.37	13.30	
Turbidity (ntu)	NA	NA		181.4	368.41	371.27	44.7	37.9	26.9	19.9	23.15	4.79	799	4.0	7.0	5.7	
Dissolved Oxygen (mg/l)	NA	NA		2.05	1.53	0.51	3.00	1.50	1.89	9.87	0.91	0.63	1.20	0.60	3.38	0.84	
ORP (mv)	NA	NA		207.3	74.1	32.1	61.9	177.5	56.2	266.6	97.9	47.0	74.6	99.0	108.9	136.9	
VOCs (ug/l)																	
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10	<10.0	<10.0	
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25.0	<25.0	
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25.0	<25.0	
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10	<10.0	<10.0	
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25.0	<25.0	
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<5.00	<50.0	<50.0	
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-33	GW-33	GW-33	GW-34	GW-34	GW-34	GW-34	GW-34	GW-34	GW-34	GW-37	GW-37	GW-37	GW-37
				Shallow 2020-05-27 Q4 Duplicate	Shallow 2021-06-02 Q7 Primary	Shallow 2021-08-23 Q8 Primary	Intermediate 2019-08-15 Q1 Primary	Intermediate 2019-11-06 Q2 Primary	Intermediate 2019-02-06 Q3 Primary	Intermediate 2020-05-27 Q4 Primary	Intermediate 2021-06-02 Q7 Primary	Intermediate 2021-08-23 Q8 Primary	Intermediate 2019-08-20 Q1 Primary	Intermediate 2019-11-21 Q2 Primary	Intermediate 2020-02-18 Q3 Primary	Intermediate 2020-05-20 Q4 Primary	
VOCs (ug/l)																	
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.2	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.2	<1.7	<1.7	<1.7	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-33	GW-33	GW-33	GW-34	GW-34	GW-34	GW-34	GW-34	GW-34	GW-34	GW-37	GW-37	GW-37	GW-37
				Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
				2020-05-27	2021-06-02	2021-08-23	2019-08-15	2019-11-06	2019-02-06	2020-05-27	2021-06-02	2021-08-23	2019-08-20	2019-11-21	2020-02-18	2020-05-20	
				Q4	Q7	Q8	Q1	Q2	Q3	Q4	Q7	Q8	Q1	Q2	Q3	Q4	
				Duplicate	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	
VOCs (ug/l)																	
Trichloroethene	5.0	9.1		41.6	34.0	34.4	82.7	68.4	74.5	74.0	78.1	77.1	<5.0	<5.0	<5.0	<5.0	
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-37	GW-37	GW-38	GW-38	GW-38	GW-38	GW-38	GW-38	GW-38	GW-38	GW-38	GW-38	GW-38
				Intermediate 2021-02-18 Q6 Primary	Intermediate 2021-08-25 Q8 Primary	Shallow 2019-08-20 Q1 Primary	Shallow 2019-08-20 Q1 Duplicate	Shallow 2019-11-21 Q2 Primary	Shallow 2019-11-21 Q2 Duplicate	Shallow 2020-02-18 Q3 Primary	Shallow 2020-02-18 Q3 Duplicate	Shallow 2020-05-20 Q4 Primary	Shallow 2020-05-20 Q4 Duplicate	Shallow 2020-10-15 Q5 Primary	Shallow 2021-02-18 Q6 Primary	Shallow 2021-08-25 Q8 Primary
Field																
pH (SU)	NA	NA		6.70	6.76	7.41	7.41	7.02	7.02	7.01	7.01	7.03	7.03	6.86	6.98	7.14
SpC (uMhos/cm)	NA	NA		941.0	1478.0	1452.0	1452.0	621.0	621.0	779.0	779.0	905.0	905.0	867.0	598.0	636.0
Temperature (°C)	NA	NA		10.23	15.30	18.30	18.30	13.20	13.20	3.78	3.78	14.10	14.10	13.20	10.20	18.40
Turbidity (ntu)	NA	NA		6.47	16.24	764	764	52.0	52.0	89.6	89.6	280.6	280.6	8.4	11.56	13.76
Dissolved Oxygen (mg/l)	NA	NA		0.23	0.60	1.50	1.50	1.90	1.90	1.79	1.79	1.53	1.53	2.19	0.70	2.16
ORP (mv)	NA	NA		102.0	55.2	102.3	102.3	128.0	128.0	104.3	104.3	128.4	128.4	180.1	185.2	74.5
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10	<10	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10	<10	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<5.00	<5.00	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
Former Dana Perfect Circle Site
551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-37 Intermediate 2021-02-18 Q6 Primary	GW-37 Intermediate 2021-08-25 Q8 Primary	GW-38 Shallow 2019-08-20 Q1 Primary	GW-38 Shallow 2019-08-20 Q1 Duplicate	GW-38 Shallow 2019-11-21 Q2 Primary	GW-38 Shallow 2019-11-21 Q2 Duplicate	GW-38 Shallow 2020-02-18 Q3 Primary	GW-38 Shallow 2020-02-18 Q3 Duplicate	GW-38 Shallow 2020-05-20 Q4 Primary	GW-38 Shallow 2020-05-20 Q4 Duplicate	GW-38 Shallow 2020-10-15 Q5 Primary	GW-38 Shallow 2021-02-18 Q6 Primary	GW-38 Shallow 2021-08-25 Q8 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10	<10	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10	<10	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-37	GW-37	GW-38	GW-38	GW-38	GW-38	GW-38	GW-38	GW-38	GW-38	GW-38	GW-38	GW-38
				Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
				2021-02-18	2021-08-25	2019-08-20	2019-08-20	2019-11-21	2019-11-21	2020-02-18	2020-02-18	2020-05-20	2020-05-20	2020-10-15	2021-02-18	2021-08-25
				Q6	Q8	Q1	Q1	Q2	Q2	Q3	Q3	Q4	Q4	Q5	Q6	Q8
				Primary	Primary	Primary	Duplicate	Primary	Duplicate	Primary	Duplicate	Primary	Duplicate	Primary	Primary	Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10	<10	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-39	GW-39	GW-39	GW-39	GW-39	GW-39	GW-40	GW-40	GW-40	GW-40	GW-40	GW-40	GW-41
				Deep 2019-08-14 Q1 Primary	Deep 2019-11-05 Q2 Primary	Deep 2020-02-07 Q3 Primary	Deep 2020-05-27 Q4 Primary	Deep 2021-06-04 Q7 Primary	Deep 2021-08-18 Q8 Primary	Intermediate 2019-08-16 Q1 Primary	Intermediate 2019-11-05 Q2 Primary	Intermediate 2020-02-07 Q3 Primary	Intermediate 2020-05-27 Q4 Primary	Intermediate 2021-06-04 Q7 Primary	Intermediate 2021-08-18 Q8 Primary	Shallow 2019-08-14 Q1 Primary
Field																
pH (SU)	NA	NA		7.44	7.29	7.28	7.31	7.23	7.20	7.40	-	-	7.27	7.24	7.03	7.08
SpC (uMhos/cm)	NA	NA		623.0	643.0	588.0	648.0	621.0	592.0	11.0	-	-	650.1	565.0	316.0	693.0
Temperature (°C)	NA	NA		11.70	11.70	11.76	14.63	11.63	11.61	19.50	-	-	15.25	18.88	17.55	14.60
Turbidity (ntu)	NA	NA		128	4.0	2.2	330.1	11.04	4.79	57.6	-	-	9.4	124.06	81.51	37.1
Dissolved Oxygen (mg/l)	NA	NA		4.30	1.90	3.10	1.66	0.48	0.68	3.10	-	-	2.87	2.68	2.74	1.60
ORP (mv)	NA	NA		120.9	123.3	94.3	156.0	127.5	141.7	43.2	-	-	161.7	97.2	107.8	133.3
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
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 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-39	GW-39	GW-39	GW-39	GW-39	GW-39	GW-40	GW-40	GW-40	GW-40	GW-40	GW-40	GW-41
				Deep 2019-08-14 Q1 Primary	Deep 2019-11-05 Q2 Primary	Deep 2020-02-07 Q3 Primary	Deep 2020-05-27 Q4 Primary	Deep 2021-06-04 Q7 Primary	Deep 2021-08-18 Q8 Primary	Intermediate 2019-08-16 Q1 Primary	Intermediate 2019-11-05 Q2 Primary	Intermediate 2020-02-07 Q3 Primary	Intermediate 2020-05-27 Q4 Primary	Intermediate 2021-06-04 Q7 Primary	Intermediate 2021-08-18 Q8 Primary	Shallow 2019-08-14 Q1 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.7	<1.2	<1.2	<1.7	<1.7	<1.7	<1.7	<1.2	<1.2	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

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 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

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			Depth Designation	Deep	Deep	Deep	Deep	Deep	Deep	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Shallow
			Date	2019-08-14	2019-11-05	2020-02-07	2020-05-27	2021-06-04	2021-08-18	2019-08-16	2019-11-05	2020-02-07	2020-05-27	2021-06-04	2021-08-18	2019-08-14
			Sample Event	Q1	Q2	Q3	Q4	Q7	Q8	Q1	Q2	Q3	Q4	Q7	Q8	Q1
			Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	7.2	<5.0	5.5	<5.0	5.8	10.5	17.3	33.3	41.4	32.2	23.7	6.3
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

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(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

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- bold** = Detected Value
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 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-1	GW-1	GW-1	GW-1	GW-1	GW-2	GW-2	GW-2	GW-2	GW-2	GW-2	GW-2	GW-3
				Shallow 2019-11-05 Q2 Primary	Shallow 2020-02-07 Q3 Primary	Shallow 2020-05-27 Q4 Primary	Shallow 2021-06-04 Q7 Primary	Shallow 2021-08-18 Q8 Primary	Deep 2019-08-13 Q1 Primary	Deep 2019-11-05 Q2 Primary	Deep 2020-02-04 Q3 Primary	Deep 2020-05-06 Q4 Primary	Deep 2020-10-13 Q5 Primary	Deep 2021-05-17 Q7 Primary	Deep 2021-08-18 Q8 Primary	Intermediate 2019-08-13 Q1 Primary
Field																
pH (SU)	NA	NA		6.96	6.88	6.84	7.03	6.90	8.42	7.29	7.35	7.37	7.34	8.33	7.26	8.61
SpC (uMhos/cm)	NA	NA		728.0	692.0	794.0	669.0	627.0	606.0	632.0	604.0	601.7	639.2	635.0	584.0	623.0
Temperature (°C)	NA	NA		13.10	9.02	10.78	10.11	12.63	15.20	12.10	12.02	11.97	12.11	12.40	12.15	15.90
Turbidity (ntu)	NA	NA		173.0	73.1	17.7	573.52	70.53	25.8	6.5	6.3	6.6	3.8	33.60	29.87	14.3
Dissolved Oxygen (mg/l)	NA	NA		1.70	2.80	1.97	0.42	0.43	3.70	4.90	6.14	5.65	4.39	1.92	1.78	4.30
ORP (mv)	NA	NA		111.4	96.0	171.2	67.1	75.9	122.1	117.5	34.0	210.2	141.5	137.8	114.5	140.4
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
Former Dana Perfect Circle Site
551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-1	GW-1	GW-1	GW-1	GW-1	GW-2	GW-2	GW-2	GW-2	GW-2	GW-2	GW-2	GW-3
				Shallow 2019-11-05 Q2 Primary	Shallow 2020-02-07 Q3 Primary	Shallow 2020-05-27 Q4 Primary	Shallow 2021-06-04 Q7 Primary	Shallow 2021-08-18 Q8 Primary	Deep 2019-08-13 Q1 Primary	Deep 2019-11-05 Q2 Primary	Deep 2020-02-04 Q3 Primary	Deep 2020-05-06 Q4 Primary	Deep 2020-10-13 Q5 Primary	Deep 2021-05-17 Q7 Primary	Deep 2021-08-18 Q8 Primary	Intermediate 2019-08-13 Q1 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	7.9	6.3	<5.0	5.5	7.1	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.2	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-41	GW-41	GW-41	GW-41	GW-41	GW-42	GW-42	GW-42	GW-42	GW-42	GW-42	GW-42	GW-43
				Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Intermediate
				2019-11-05	2020-02-07	2020-05-27	2021-06-04	2021-08-18	2019-08-13	2019-11-05	2020-02-04	2020-05-06	2020-10-13	2021-05-17	2021-08-18	2019-08-13
				Q2	Q3	Q4	Q7	Q8	Q1	Q2	Q3	Q4	Q5	Q7	Q8	Q1
				Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		9.6	<5.0	<5.0	12.9	15.0	58.3	87.5	68.2	71.2	65.2	75.1	68.4	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-43	GW-43	GW-43	GW-43	GW-43	GW-43	GW-43	GW-43	GW-44	GW-44	GW-44	GW-44	GW-44	GW-44
				Intermediate 2019-11-05 Q2 Primary	Intermediate 2020-02-04 Q3 Primary	Intermediate 2020-05-06 Q4 Primary	Intermediate 2020-10-13 Q5 Primary	Intermediate 2021-01-28 Q6 Primary	Intermediate 2021-05-17 Q7 Primary	Intermediate 2021-08-18 Q8 Primary	Shallow 2019-08-21 Q1 Primary	Shallow 2019-11-05 Q2 Primary	Shallow 2020-02-04 Q3 Primary	Shallow 2020-05-27 Q4 Primary	Shallow 2020-10-13 Q5 Primary	Shallow 2021-01-28 Q6 Primary	
Field																	
pH (SU)	NA	NA		7.08	7.16	7.13	7.11	7.01	8.52	7.65	-	6.99	7.10	7.10	7.15	6.98	
SpC (uMhos/cm)	NA	NA		646.0	607.0	628.2	665.3	512.3	613.0	597.0	-	699.0	641.0	675.0	663.0	407.2	
Temperature (°C)	NA	NA		11.50	11.83	11.65	11.59	11.79	12.90	11.45	-	12.00	12.11	10.97	12.16	11.96	
Turbidity (ntu)	NA	NA		13.8	26.8	53.2	518.25	43.39	72.40	115.48	-	167.6	48.3	212.4	3458.7	2197.4	
Dissolved Oxygen (mg/l)	NA	NA		6.90	7.86	8.67	6.16	7.05	4.88	7.65	-	6.70	8.10	9.09	8.03	8.21	
ORP (mv)	NA	NA		116.4	34.5	246.4	140.9	134.8	116.6	188.7	-	98.0	18.0	100.1	111.8	198.1	
VOCs (ug/l)																	
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
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 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-43	GW-43	GW-43	GW-43	GW-43	GW-43	GW-43	GW-43	GW-44	GW-44	GW-44	GW-44	GW-44	GW-44
				Intermediate 2019-11-05 Q2 Primary	Intermediate 2020-02-04 Q3 Primary	Intermediate 2020-05-06 Q4 Primary	Intermediate 2020-10-13 Q5 Primary	Intermediate 2021-01-28 Q6 Primary	Intermediate 2021-05-17 Q7 Primary	Intermediate 2021-08-18 Q8 Primary	Shallow 2019-08-21 Q1 Primary	Shallow 2019-11-05 Q2 Primary	Shallow 2020-02-04 Q3 Primary	Shallow 2020-05-27 Q4 Primary	Shallow 2020-10-13 Q5 Primary	Shallow 2021-01-28 Q6 Primary	
VOCs (ug/l)																	
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-43	GW-43	GW-43	GW-43	GW-43	GW-43	GW-43	GW-43	GW-44	GW-44	GW-44	GW-44	GW-44	GW-44
				Intermediate 2019-11-05 Q2 Primary	Intermediate 2020-02-04 Q3 Primary	Intermediate 2020-05-06 Q4 Primary	Intermediate 2020-10-13 Q5 Primary	Intermediate 2021-01-28 Q6 Primary	Intermediate 2021-05-17 Q7 Primary	Intermediate 2021-08-18 Q8 Primary	Shallow 2019-08-21 Q1 Primary	Shallow 2019-11-05 Q2 Primary	Shallow 2020-02-04 Q3 Primary	Shallow 2020-05-27 Q4 Primary	Shallow 2020-10-13 Q5 Primary	Shallow 2021-01-28 Q6 Primary	
VOCs (ug/l)																	
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

bold = Detected Value

italics = Reporting Limit > RDCL

bold + yellow = Detected > RDCL

bold + orange = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-44	GW-44	GW-45	GW-45	GW-45	GW-45	GW-45	GW-45	GW-45	GW-46	GW-46	GW-46	GW-46
				Shallow 2021-05-17 Q7 Primary	Shallow 2021-08-18 Q8 Primary	Deep 2019-08-15 Q1 Primary	Deep 2019-11-07 Q2 Primary	Deep 2020-02-04 Q3 Primary	Deep 2020-05-06 Q4 Primary	Deep 2020-10-13 Q5 Primary	Deep 2021-01-27 Q6 Primary	Deep 2021-08-17 Q8 Primary	Intermediate 2019-08-15 Q1 Primary	Intermediate 2019-11-07 Q2 Primary	Intermediate 2020-02-04 Q3 Primary	Intermediate 2020-05-19 Q4 Primary
Field																
pH (SU)	NA	NA		7.12	7.01	7.28	7.21	7.42	7.10	7.19	6.95	7.37	7.32	7.11	7.19	7.07
SpC (uMhos/cm)	NA	NA		633.0	-	728.0	751.0	697.0	546.7	777.3	228.8	760.0	731.0	803.0	735.0	733.1
Temperature (°C)	NA	NA		10.23	18.23	12.10	12.00	12.27	12.10	12.02	12.23	12.07	12.10	12.10	12.43	12.38
Turbidity (ntu)	NA	NA		231.00	754.00	852.5	756.2	13.0	401.9	712.3	77.3	447.63	54.9	226.0	525.7	86.86
Dissolved Oxygen (mg/l)	NA	NA		5.14	8.01	1.50	0.90	7.91	0.59	0.31	2.80	0.42	7.30	2.90	1.12	0.39
ORP (mv)	NA	NA		342.3	166.2	-27.0	-56.6	76.1	-86.8	-128.8	-15.5	-116.8	149.7	78.3	79.2	67.9
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
Former Dana Perfect Circle Site
551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-44	GW-44	GW-45	GW-45	GW-45	GW-45	GW-45	GW-45	GW-45	GW-46	GW-46	GW-46	GW-46
				Shallow 2021-05-17 Q7 Primary	Shallow 2021-08-18 Q8 Primary	Deep 2019-08-15 Q1 Primary	Deep 2019-11-07 Q2 Primary	Deep 2020-02-04 Q3 Primary	Deep 2020-05-06 Q4 Primary	Deep 2020-10-13 Q5 Primary	Deep 2021-01-27 Q6 Primary	Deep 2021-08-17 Q8 Primary	Intermediate 2019-08-15 Q1 Primary	Intermediate 2019-11-07 Q2 Primary	Intermediate 2020-02-04 Q3 Primary	Intermediate 2020-05-19 Q4 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.2	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-44	GW-44	GW-45	GW-45	GW-45	GW-45	GW-45	GW-45	GW-45	GW-46	GW-46	GW-46	GW-46
				Shallow	Shallow	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Intermediate	Intermediate	Intermediate	Intermediate
				2021-05-17	2021-08-18	2019-08-15	2019-11-07	2020-02-04	2020-05-06	2020-10-13	2021-01-27	2021-08-17	2019-08-15	2019-11-07	2020-02-04	2020-05-19
				Q7	Q8	Q1	Q2	Q3	Q4	Q5	Q6	Q8	Q1	Q2	Q3	Q4
				Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-46	GW-46	GW-46	GW-47	GW-47	GW-47	GW-47	GW-47	GW-47	GW-47	GW-47	GW-48	GW-48
				Intermediate 2020-10-16 Q5 Primary	Intermediate 2021-01-27 Q6 Primary	Intermediate 2021-08-17 Q8 Primary	Shallow 2019-08-15 Q1 Primary	Shallow 2019-11-07 Q2 Primary	Shallow 2020-02-04 Q3 Primary	Shallow 2020-05-06 Q4 Primary	Shallow 2020-10-16 Q5 Primary	Shallow 2020-10-16 Q5 Duplicate	Shallow 2021-02-22 Q6 Primary	Shallow 2021-08-17 Q8 Primary	Deep 2019-08-15 Q1 Primary	Deep 2019-08-15 Q1 Duplicate
Field																
pH (SU)	NA	NA		6.95	6.87	7.06	7.12	7.09	7.14	7.04	6.85	6.85	7.21	6.98	7.38	7.38
SpC (uMhos/cm)	NA	NA		881.0	727.9	785.0	827.0	851.0	867.0	755.3	914.0	914.0	1743.0	827.0	614.0	614.0
Temperature (°C)	NA	NA		12.22	12.24	12.28	14.00	13.30	11.56	11.79	13.27	13.27	11.46	12.69	11.80	11.80
Turbidity (ntu)	NA	NA		1022.90	763.16	675.64	230.2	151.7	625.6	507.23	399.19	399.19	1036.60	323.63	10	10
Dissolved Oxygen (mg/l)	NA	NA		1.20	2.59	2.72	4.00	1.80	0.93	1.11	2.52	2.52	0.91	0.81	0.60	0.60
ORP (mv)	NA	NA		229.8	38.3	166.9	150.7	78.1	79.0	79.2	239.8	239.8	269.9	138.3	2.7	2.7
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-46 Intermediate 2020-10-16 Q5 Primary	GW-46 Intermediate 2021-01-27 Q6 Primary	GW-46 Intermediate 2021-08-17 Q8 Primary	GW-47 Shallow 2019-08-15 Q1 Primary	GW-47 Shallow 2019-11-07 Q2 Primary	GW-47 Shallow 2020-02-04 Q3 Primary	GW-47 Shallow 2020-05-06 Q4 Primary	GW-47 Shallow 2020-10-16 Q5 Primary	GW-47 Shallow 2020-10-16 Q5 Duplicate	GW-47 Shallow 2021-02-22 Q6 Primary	GW-47 Shallow 2021-08-17 Q8 Primary	GW-48 Deep 2019-08-15 Q1 Primary	GW-48 Deep 2019-08-15 Q1 Duplicate
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	8.6	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID	GW-46	GW-46	GW-46	GW-47	GW-47	GW-47	GW-47	GW-47	GW-47	GW-47	GW-47	GW-48	GW-48
			Depth Designation	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
			Date	2020-10-16	2021-01-27	2021-08-17	2019-08-15	2019-11-07	2020-02-04	2020-05-06	2020-10-16	2020-10-16	2021-02-22	2021-08-17	2019-08-15	2019-08-15
			Sample Event	Q5	Q6	Q8	Q1	Q2	Q3	Q4	Q5	Q5	Q6	Q8	Q1	Q1
			Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Duplicate	Primary	Primary	Primary	Duplicate
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-48	GW-48	GW-48	GW-48	GW-48	GW-48	GW-48	GW-49	GW-49	GW-49	GW-49	GW-49	GW-49
				Deep 2019-11-05 Q2 Primary	Deep 2019-11-05 Q2 Duplicate	Deep 2020-02-06 Q3 Primary	Deep 2020-02-06 Q3 Duplicate	Deep 2021-06-25 Q7 Primary	Deep 2021-08-19 Q8 Primary	Deep 2021-08-19 Q8 Duplicate	Intermediate 2019-08-15 Q1 Primary	Intermediate 2019-11-05 Q2 Primary	Intermediate 2020-02-07 Q3 Primary	Intermediate 2020-05-28 Q4 Primary	Intermediate 2021-06-02 Q7 Primary	Intermediate 2021-08-19 Q8 Primary
Field																
pH (SU)	NA	NA		7.50	7.50	7.17	7.17	-	7.20	7.20	7.24	7.16	7.68	7.05	7.20	7.13
SpC (uMhos/cm)	NA	NA		654.0	654.0	592.0	592.0	-	573.0	573.0	679.0	668.0	545.0	703.0	648.0	576.0
Temperature (°C)	NA	NA		11.70	11.70	11.75	11.75	-	11.87	11.87	11.40	11.70	11.25	11.58	11.70	11.61
Turbidity (ntu)	NA	NA		1029.9	1029.9	17.5	17.5	-	5.11	5.11	172.4	27.4	3.8	4.3	36.73	106.87
Dissolved Oxygen (mg/l)	NA	NA		0.90	0.90	0.87	0.87	-	0.89	0.89	4.90	9.20	11.24	5.67	3.73	3.55
ORP (mv)	NA	NA		-12.4	-12.4	-21.9	-21.9	-	-88.3	-88.3	28.5	74.8	120.8	185.5	181.4	63.4
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-48 Deep 2019-11-05 Q2 Primary	GW-48 Deep 2019-11-05 Q2 Duplicate	GW-48 Deep 2020-02-06 Q3 Primary	GW-48 Deep 2020-02-06 Q3 Duplicate	GW-48 Deep 2021-06-25 Q7 Primary	GW-48 Deep 2021-08-19 Q8 Primary	GW-48 Deep 2021-08-19 Q8 Duplicate	GW-49 Intermediate 2019-08-15 Q1 Primary	GW-49 Intermediate 2019-11-05 Q2 Primary	GW-49 Intermediate 2020-02-07 Q3 Primary	GW-49 Intermediate 2020-05-28 Q4 Primary	GW-49 Intermediate 2021-06-02 Q7 Primary	GW-49 Intermediate 2021-08-19 Q8 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		5.2	5.8	<5.0	9.3	5.6	8.8	12.4	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.7	<1.2	<1.2	<1.2	<1.7	<1.7	<1.7	<1.7	<1.2	<1.2
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-48	GW-48	GW-48	GW-48	GW-48	GW-48	GW-48	GW-48	GW-49	GW-49	GW-49	GW-49	GW-49	GW-49
				Deep	Deep	Deep	Deep	Deep	Deep	Deep	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
				2019-11-05	2019-11-05	2020-02-06	2020-02-06	2021-06-25	2021-08-19	2021-08-19	2021-08-19	2019-08-15	2019-11-05	2020-02-07	2020-05-28	2021-06-02	2021-08-19
				Q2	Q2	Q3	Q3	Q7	Q8	Q8	Q8	Q1	Q2	Q3	Q4	Q7	Q8
				Primary	Duplicate	Primary	Duplicate	Primary	Primary	Duplicate	Primary	Primary	Primary	Primary	Primary	Primary	Primary
VOCs (ug/l)																	
Trichloroethene	5.0	9.1		<5.0	9.2	26.4	28.9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-50	GW-50	GW-50	GW-50	GW-50	GW-50	GW-60	GW-60	GW-60	GW-60	GW-60	GW-60	GW-60
				Shallow 2019-08-15 Q1 Primary	Shallow 2019-11-05 Q2 Primary	Shallow 2020-02-07 Q3 Primary	Shallow 2020-05-28 Q4 Primary	Shallow 2021-06-02 Q7 Primary	Shallow 2021-08-19 Q8 Primary	Deep 2019-08-14 Q1 Primary	Deep 2019-08-14 Q1 Duplicate	Deep 2019-11-05 Q2 Primary	Deep 2019-11-05 Q2 Duplicate	Deep 2020-02-07 Q3 Primary	Deep 2020-02-07 Q3 Duplicate	Deep 2020-05-27 Q4 Primary
Field																
pH (SU)	NA	NA		7.17	7.00	6.99	7.02	7.06	7.01	7.57	7.57	7.29	7.29	7.49	7.49	7.28
SpC (uMhos/cm)	NA	NA		668.0	682.0	657.0	723.1	655.0	604.0	649.0	649.0	670.0	670.0	615.0	615.0	686.5
Temperature (°C)	NA	NA		11.80	11.80	10.93	10.71	10.63	11.67	12.00	12.00	11.90	11.90	11.49	11.49	11.81
Turbidity (ntu)	NA	NA		256.8	2347.4	37.9	184.5	202.91	255.70	8.4	8.4	886.0	886.0	7.7	7.7	8.2
Dissolved Oxygen (mg/l)	NA	NA		5.00	5.30	5.37	5.99	5.20	482.00	6.60	6.60	1.10	1.10	4.78	4.78	3.49
ORP (mv)	NA	NA		53.0	84.1	67.6	176.9	179.9	83.6	125.5	125.5	-150.0	-150.0	86.9	86.9	166.3
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-50	GW-50	GW-50	GW-50	GW-50	GW-50	GW-60	GW-60	GW-60	GW-60	GW-60	GW-60	GW-60
				Shallow 2019-08-15 Q1 Primary	Shallow 2019-11-05 Q2 Primary	Shallow 2020-02-07 Q3 Primary	Shallow 2020-05-28 Q4 Primary	Shallow 2021-06-02 Q7 Primary	Shallow 2021-08-19 Q8 Primary	Deep 2019-08-14 Q1 Primary	Deep 2019-08-14 Q1 Duplicate	Deep 2019-11-05 Q2 Primary	Deep 2019-11-05 Q2 Duplicate	Deep 2020-02-07 Q3 Primary	Deep 2020-02-07 Q3 Duplicate	Deep 2020-05-27 Q4 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.7	<1.2	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-50	GW-50	GW-50	GW-50	GW-50	GW-50	GW-60	GW-60	GW-60	GW-60	GW-60	GW-60	GW-60
				Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Deep	Deep	Deep
				2019-08-15	2019-11-05	2020-02-07	2020-05-28	2021-06-02	2021-08-19	2019-08-14	2019-08-14	2019-11-05	2019-11-05	2020-02-07	2020-02-07	2020-05-27
				Q1	Q2	Q3	Q4	Q7	Q8	Q1	Q1	Q2	Q2	Q3	Q3	Q4
				Primary	Primary	Primary	Primary	Primary	Primary	Primary	Duplicate	Primary	Duplicate	Primary	Duplicate	Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	54.4	49.4	74.8	70.4	61.7	65.3	65.3
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

- (1) RISC Residential Default Closure Levels (IDEM, 2009)
- (2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)
- (3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-60	GW-60	GW-60	GW-60	GW-60	GW-61	GW-61	GW-61	GW-61	GW-61	GW-61	GW-61	GW-61
				Deep 2020-05-27 Q4 Duplicate	Deep 2021-06-04 Q7 Primary	Deep 2021-06-04 Q7 Duplicate	Deep 2021-08-18 Q8 Primary	Deep 2021-08-18 Q8 Duplicate	Intermediate 2019-08-14 Q1 Primary	Intermediate 2019-08-14 Q1 Duplicate	Intermediate 2019-11-05 Q2 Primary	Intermediate 2019-11-05 Q2 Duplicate	Intermediate 2020-02-07 Q3 Primary	Intermediate 2020-02-07 Q3 Duplicate	Intermediate 2020-05-27 Q4 Primary	Intermediate 2020-05-27 Q4 Duplicate
Field																
pH (SU)	NA	NA		7.28	7.22	7.22	7.22	7.22	7.61	7.61	7.35	7.35	7.39	7.39	7.60	7.60
SpC (uMhos/cm)	NA	NA		686.5	656.0	656.0	621.0	621.0	585.0	585.0	612.0	612.0	564.0	564.0	620.2	620.2
Temperature (°C)	NA	NA		11.81	11.81	11.81	11.81	11.81	11.50	11.50	11.60	11.60	11.61	11.61	11.66	11.66
Turbidity (ntu)	NA	NA		8.2	118.2	118.2	362.9	362.9	15.6	15.6	14.5	14.5	5.8	5.8	3.4	3.4
Dissolved Oxygen (mg/l)	NA	NA		3.49	0.27	0.27	0.44	0.44	8.20	8.20	6.30	6.30	6.84	6.84	10.08	10.08
ORP (mv)	NA	NA		166.3	-87.1	-87.1	-33.7	-33.7	117.7	117.7	46.5	46.5	94.3	94.3	157.3	157.3
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-60 Deep 2020-05-27 Q4 Duplicate	GW-60 Deep 2021-06-04 Q7 Primary	GW-60 Deep 2021-06-04 Q7 Duplicate	GW-60 Deep 2021-08-18 Q8 Primary	GW-60 Deep 2021-08-18 Q8 Duplicate	GW-61 Intermediate 2019-08-14 Q1 Primary	GW-61 Intermediate 2019-08-14 Q1 Duplicate	GW-61 Intermediate 2019-11-05 Q2 Primary	GW-61 Intermediate 2019-11-05 Q2 Duplicate	GW-61 Intermediate 2020-02-07 Q3 Primary	GW-61 Intermediate 2020-02-07 Q3 Duplicate	GW-61 Intermediate 2020-05-27 Q4 Primary	GW-61 Intermediate 2020-05-27 Q4 Duplicate
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.2	<1.2	<1.2	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-60	GW-60	GW-60	GW-60	GW-60	GW-61	GW-61	GW-61	GW-61	GW-61	GW-61	GW-61	GW-61
				Deep 2020-05-27 Q4 Duplicate	Deep 2021-06-04 Q7 Primary	Deep 2021-06-04 Q7 Duplicate	Deep 2021-08-18 Q8 Primary	Deep 2021-08-18 Q8 Duplicate	Intermediate 2019-08-14 Q1 Primary	Intermediate 2019-08-14 Q1 Duplicate	Intermediate 2019-11-05 Q2 Primary	Intermediate 2019-11-05 Q2 Duplicate	Intermediate 2020-02-07 Q3 Primary	Intermediate 2020-02-07 Q3 Duplicate	Intermediate 2020-05-27 Q4 Primary	Intermediate 2020-05-27 Q4 Duplicate
VOCs (ug/l)																
Trichloroethene	5.0	9.1		67.9	57.0	57.7	61.3	58.8	64.6	37.9	47.2	109	88.1	40.9	96.8	91.8
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-61	GW-61	GW-61	GW-61	GW-62	GW-62	GW-62	GW-62	GW-62	GW-62	GW-66	GW-66	GW-66
				Intermediate 2021-06-04 Q7 Primary	Intermediate 2021-06-04 Q7 Duplicate	Intermediate 2021-08-18 Q8 Primary	Intermediate 2021-08-18 Q8 Duplicate	Shallow 2019-08-14 Q1 Primary	Shallow 2019-11-05 Q2 Primary	Shallow 2020-02-07 Q3 Primary	Shallow 2020-05-27 Q4 Primary	Shallow 2021-06-04 Q7 Primary	Shallow 2021-08-18 Q8 Primary	Deep 2019-08-14 Q1 Primary	Deep 2019-11-07 Q2 Primary	Deep 2020-02-05 Q3 Primary
Field																
pH (SU)	NA	NA		7.12	7.12	7.13	7.13	7.15	6.98	6.99	6.92	6.84	6.75	7.33	7.27	7.27
SpC (uMhos/cm)	NA	NA		619.0	619.0	592.0	592.0	11.0	657.0	600.0	635.1	751.0	855.0	716.0	739.0	678.0
Temperature (°C)	NA	NA		11.78	11.78	11.89	11.89	23.00	13.60	8.54	11.59	10.99	14.09	11.80	11.80	11.81
Turbidity (ntu)	NA	NA		10.6	10.6	14.0	14.0	211.5	49.1	52.2	19.6	28.0	8.1	58.5	82.4	45.4
Dissolved Oxygen (mg/l)	NA	NA		4.07	4.07	2.05	2.05	7.20	0.90	0.96	1.63	0.49	0.49	1.50	2.40	1.95
ORP (mv)	NA	NA		73.6	73.6	74.0	74.0	127.4	76.1	68.4	167.3	60.4	77.6	-47.7	14.9	-50.9
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
Former Dana Perfect Circle Site
551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-61	GW-61	GW-61	GW-61	GW-62	GW-62	GW-62	GW-62	GW-62	GW-62	GW-66	GW-66	GW-66
				Intermediate 2021-06-04 Q7 Primary	Intermediate 2021-06-04 Q7 Duplicate	Intermediate 2021-08-18 Q8 Primary	Intermediate 2021-08-18 Q8 Duplicate	Shallow 2019-08-14 Q1 Primary	Shallow 2019-11-05 Q2 Primary	Shallow 2020-02-07 Q3 Primary	Shallow 2020-05-27 Q4 Primary	Shallow 2021-06-04 Q7 Primary	Shallow 2021-08-18 Q8 Primary	Deep 2019-08-14 Q1 Primary	Deep 2019-11-07 Q2 Primary	Deep 2020-02-05 Q3 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.2	<1.2	<1.2	<1.2	<1.7	<1.7	<1.7	<1.7	<1.2	<1.2	<1.7	<1.7	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-61	GW-61	GW-61	GW-61	GW-62	GW-62	GW-62	GW-62	GW-62	GW-62	GW-66	GW-66	GW-66
				Intermediate 2021-06-04 Q7 Primary	Intermediate 2021-06-04 Q7 Duplicate	Intermediate 2021-08-18 Q8 Primary	Intermediate 2021-08-18 Q8 Duplicate	Shallow 2019-08-14 Q1 Primary	Shallow 2019-11-05 Q2 Primary	Shallow 2020-02-07 Q3 Primary	Shallow 2020-05-27 Q4 Primary	Shallow 2021-06-04 Q7 Primary	Shallow 2021-08-18 Q8 Primary	Deep 2019-08-14 Q1 Primary	Deep 2019-11-07 Q2 Primary	Deep 2020-02-05 Q3 Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		50.8	50.1	52.7	53.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID	GW-66	GW-66	GW-66	GW-66	GW-67	GW-67	GW-67	GW-67	GW-67	GW-67	GW-67	GW-68	GW-68
			Depth Designation	Deep	Deep	Deep	Deep	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Shallow
			Date	2020-05-07	2020-10-13	2021-01-27	2021-08-20	2019-08-14	2019-11-07	2020-02-05	2020-05-07	2020-10-13	2021-01-27	2021-08-20	2019-08-14	2019-11-07
			Sample Event	Q4	Q5	Q6	Q8	Q1	Q2	Q3	Q4	Q5	Q6	Q8	Q1	Q2
			Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Field																
pH (SU)	NA	NA		7.42	7.31	7.10	7.17	7.35	7.21	7.29	7.17	7.24	7.10	6.92	7.16	7.13
SpC (uMhos/cm)	NA	NA		785.2	748.5	643.0	691.0	710.0	735.0	668.0	748.7	758.5	666.9	674.0	727.0	728.0
Temperature (°C)	NA	NA		13.04	16.04	8.34	19.90	12.10	12.10	12.06	11.97	12.09	7.92	11.99	15.70	15.00
Turbidity (ntu)	NA	NA		60.0	89.4	364.6	28.15	26.4	25.9	14.1	17.0	60.3	82.58	21.96	171.8	196.0
Dissolved Oxygen (mg/l)	NA	NA		3.35	2.61	3.20	2.18	4.90	2.00	4.67	0.71	2.71	2.33	1.98	2.00	1.60
ORP (mv)	NA	NA		-83.4	-100.6	-42.8	-84.1	-21.5	-16.8	13.1	-89.6	-56.8	-65.3	-43.1	-22.8	1.5
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-66 Deep 2020-05-07 Q4 Primary	GW-66 Deep 2020-10-13 Q5 Primary	GW-66 Deep 2021-01-27 Q6 Primary	GW-66 Deep 2021-08-20 Q8 Primary	GW-67 Intermediate 2019-08-14 Q1 Primary	GW-67 Intermediate 2019-11-07 Q2 Primary	GW-67 Intermediate 2020-02-05 Q3 Primary	GW-67 Intermediate 2020-05-07 Q4 Primary	GW-67 Intermediate 2020-10-13 Q5 Primary	GW-67 Intermediate 2021-01-27 Q6 Primary	GW-67 Intermediate 2021-08-20 Q8 Primary	GW-68 Shallow 2019-08-14 Q1 Primary	GW-68 Shallow 2019-11-07 Q2 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID	GW-66	GW-66	GW-66	GW-66	GW-67	GW-67	GW-67	GW-67	GW-67	GW-67	GW-67	GW-68	GW-68
			Depth Designation	Deep	Deep	Deep	Deep	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Shallow
			Date	2020-05-07	2020-10-13	2021-01-27	2021-08-20	2019-08-14	2019-11-07	2020-02-05	2020-05-07	2020-10-13	2021-01-27	2021-08-20	2019-08-14	2019-11-07
			Sample Event	Q4	Q5	Q6	Q8	Q1	Q2	Q3	Q4	Q5	Q6	Q8	Q1	Q2
			Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

bold = Detected Value

italics = Reporting Limit > RDCL

bold + yellow = Detected > RDCL

bold + orange = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-68	GW-68	GW-68	GW-68	GW-68	GW-69	GW-69	GW-69	GW-69	GW-69	GW-69	GW-69	GW-70
				Shallow 2020-02-05 Q3 Primary	Shallow 2020-05-07 Q4 Primary	Shallow 2020-10-13 Q5 Primary	Shallow 2021-01-27 Q6 Primary	Shallow 2021-08-20 Q8 Primary	Deep 2019-08-13 Q1 Primary	Deep 2019-11-08 Q2 Primary	Deep 2020-02-05 Q3 Primary	Deep 2020-05-07 Q4 Primary	Deep 2020-10-13 Q5 Primary	Deep 2021-01-28 Q6 Primary	Deep 2021-08-20 Q8 Primary	Intermediate 2019-08-13 Q1 Primary
Field																
pH (SU)	NA	NA		7.18	7.06	7.12	7.41	7.06	7.31	7.48	7.39	7.38	7.49	7.29	7.38	7.26
SpC (uMhos/cm)	NA	NA		663.0	727.8	754.4	646.3	664.0	588.0	580.0	537.0	583.8	599.5	367.7	534.0	657.0
Temperature (°C)	NA	NA		11.38	11.10	15.19	7.41	13.71	11.20	11.40	11.70	11.44	11.45	11.41	11.48	10.60
Turbidity (ntu)	NA	NA		117.2	166.5	433.0	1217.7	148.64	1.7	126.6	24.5	68.8	907.7	225.2	240.28	251.6
Dissolved Oxygen (mg/l)	NA	NA		1.31	0.29	0.99	2.62	1.39	0.30	1.30	7.09	0.52	0.32	0.80	1.14	6.70
ORP (mv)	NA	NA		-6.4	-69.1	-69.8	-25.6	-22.4	-158.9	-158.1	13.2	-119.4	-136.8	-119.0	-110.7	64.9
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
Former Dana Perfect Circle Site
551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-68	GW-68	GW-68	GW-68	GW-68	GW-69	GW-69	GW-69	GW-69	GW-69	GW-69	GW-69	GW-70
				Shallow 2020-02-05 Q3 Primary	Shallow 2020-05-07 Q4 Primary	Shallow 2020-10-13 Q5 Primary	Shallow 2021-01-27 Q6 Primary	Shallow 2021-08-20 Q8 Primary	Deep 2019-08-13 Q1 Primary	Deep 2019-11-08 Q2 Primary	Deep 2020-02-05 Q3 Primary	Deep 2020-05-07 Q4 Primary	Deep 2020-10-13 Q5 Primary	Deep 2021-01-28 Q6 Primary	Deep 2021-08-20 Q8 Primary	Intermediate 2019-08-13 Q1 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID	GW-68	GW-68	GW-68	GW-68	GW-68	GW-69	GW-69	GW-69	GW-69	GW-69	GW-69	GW-69	GW-70
			Depth Designation	Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Intermediate
			Date	2020-02-05	2020-05-07	2020-10-13	2021-01-27	2021-08-20	2019-08-13	2019-11-08	2020-02-05	2020-05-07	2020-10-13	2021-01-28	2021-08-20	2019-08-13
			Sample Event	Q3	Q4	Q5	Q6	Q8	Q1	Q2	Q3	Q4	Q5	Q6	Q8	Q1
			Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-70	GW-70	GW-70	GW-70	GW-70	GW-70	GW-71	GW-71	GW-71	GW-71	GW-71	GW-71	GW-71
				Intermediate 2019-11-22 Q2 Primary	Intermediate 2020-02-05 Q3 Primary	Intermediate 2020-05-07 Q4 Primary	Intermediate 2020-10-13 Q5 Primary	Intermediate 2021-02-22 Q6 Primary	Intermediate 2021-08-20 Q8 Primary	Shallow 2019-08-13 Q1 Primary	Shallow 2019-11-18 Q2 Primary	Shallow 2020-02-05 Q3 Primary	Shallow 2020-05-07 Q4 Primary	Shallow 2020-10-13 Q5 Primary	Shallow 2021-02-22 Q6 Primary	Shallow 2021-08-20 Q8 Primary
Field																
pH (SU)	NA	NA		7.11	7.14	7.16	7.20	7.78	7.08	7.04	-	7.04	7.15	7.08	7.17	6.96
SpC (uMhos/cm)	NA	NA		604.0	510.0	672.1	642.8	1158.0	580.0	607.0	-	516.0	615.6	689.3	1528.0	629.0
Temperature (°C)	NA	NA		11.70	11.41	10.93	11.75	11.57	11.74	13.30	-	7.05	9.11	13.52	8.65	13.01
Turbidity (ntu)	NA	NA		79.4	11.4	32.7	179.0	72.9	71.73	65.5	-	223.4	650.1	905.5	557.8	292.92
Dissolved Oxygen (mg/l)	NA	NA		2.90	7.24	6.12	3.86	11.54	3.61	1.10	-	8.16	2.31	0.55	2.27	0.62
ORP (mv)	NA	NA		126.1	-65.5	65.9	14.5	263.1	46.3	-100.7	-	-43.2	39.6	-48.3	-42.5	28.9
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
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Former Dana Perfect Circle Site
551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-70	GW-70	GW-70	GW-70	GW-70	GW-70	GW-71	GW-71	GW-71	GW-71	GW-71	GW-71	GW-71
				Intermediate 2019-11-22 Q2 Primary	Intermediate 2020-02-05 Q3 Primary	Intermediate 2020-05-07 Q4 Primary	Intermediate 2020-10-13 Q5 Primary	Intermediate 2021-02-22 Q6 Primary	Intermediate 2021-08-20 Q8 Primary	Shallow 2019-08-13 Q1 Primary	Shallow 2019-11-18 Q2 Primary	Shallow 2020-02-05 Q3 Primary	Shallow 2020-05-07 Q4 Primary	Shallow 2020-10-13 Q5 Primary	Shallow 2021-02-22 Q6 Primary	Shallow 2021-08-20 Q8 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID	GW-70	GW-70	GW-70	GW-70	GW-70	GW-70	GW-71	GW-71	GW-71	GW-71	GW-71	GW-71	GW-71
			Depth Designation	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
			Date	2019-11-22	2020-02-05	2020-05-07	2020-10-13	2021-02-22	2021-08-20	2019-08-13	2019-11-18	2020-02-05	2020-05-07	2020-10-13	2021-02-22	2021-08-20
			Sample Event	Q2	Q3	Q4	Q5	Q6	Q8	Q1	Q2	Q3	Q4	Q5	Q6	Q8
			Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

- (1) RISC Residential Default Closure Levels (IDEM, 2009)
- (2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)
- (3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-72	GW-72	GW-72	GW-72	GW-72	GW-72	GW-72	GW-73	GW-73	GW-73	GW-73	GW-73	GW-73
				Deep 2019-08-14 Q1 Primary	Deep 2019-11-08 Q2 Primary	Deep 2020-02-05 Q3 Primary	Deep 2020-05-07 Q4 Primary	Deep 2020-10-13 Q5 Primary	Deep 2021-01-29 Q6 Primary	Deep 2021-08-20 Q8 Primary	Intermediate 2019-08-14 Q1 Primary	Intermediate 2019-11-08 Q2 Primary	Intermediate 2020-02-05 Q3 Primary	Intermediate 2020-05-07 Q4 Primary	Intermediate 2020-10-14 Q5 Primary	Intermediate 2021-01-29 Q6 Primary
Field																
pH (SU)	NA	NA		7.31	7.22	7.26	7.24	7.24	7.21	7.11	7.26	7.23	7.21	7.15	7.20	7.15
SpC (uMhos/cm)	NA	NA		691.0	711.0	652.0	714.3	736.8	762.8	659.0	697.0	715.0	666.0	727.7	754.8	793.2
Temperature (°C)	NA	NA		11.90	11.90	11.86	11.90	11.94	11.91	11.89	12.10	12.00	11.98	12.03	11.95	11.93
Turbidity (ntu)	NA	NA		26.3	173.0	102.4	82.8	1259.6	323.68	147.20	79.2	187.4	140.8	118.9	82.2	66.6
Dissolved Oxygen (mg/l)	NA	NA		2.60	1.50	0.37	1.12	0.26	0.40	0.54	2.40	3.10	1.07	1.93	1.29	0.34
ORP (mv)	NA	NA		32.3	-50.7	-75.8	-101.2	-126.7	-56.7	-159.9	23.3	-22.0	-45.7	-53.9	-70.6	-46.8
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
Former Dana Perfect Circle Site
551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-72	GW-72	GW-72	GW-72	GW-72	GW-72	GW-72	GW-73	GW-73	GW-73	GW-73	GW-73	GW-73
				Deep 2019-08-14 Q1 Primary	Deep 2019-11-08 Q2 Primary	Deep 2020-02-05 Q3 Primary	Deep 2020-05-07 Q4 Primary	Deep 2020-10-13 Q5 Primary	Deep 2021-01-29 Q6 Primary	Deep 2021-08-20 Q8 Primary	Intermediate 2019-08-14 Q1 Primary	Intermediate 2019-11-08 Q2 Primary	Intermediate 2020-02-05 Q3 Primary	Intermediate 2020-05-07 Q4 Primary	Intermediate 2020-10-14 Q5 Primary	Intermediate 2021-01-29 Q6 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID	GW-72	GW-72	GW-72	GW-72	GW-72	GW-72	GW-72	GW-73	GW-73	GW-73	GW-73	GW-73	GW-73
			Depth Designation	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
			Date	2019-08-14	2019-11-08	2020-02-05	2020-05-07	2020-10-13	2021-01-29	2021-08-20	2019-08-14	2019-11-08	2020-02-05	2020-05-07	2020-10-14	2021-01-29
			Sample Event	Q1	Q2	Q3	Q4	Q5	Q6	Q8	Q1	Q2	Q3	Q4	Q5	Q6
			Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

bold = Detected Value

italics = Reporting Limit > RDCL

bold + yellow = Detected > RDCL

bold + orange = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-73	GW-74	GW-74	GW-74	GW-74	GW-74	GW-74	GW-74	GW-75	GW-75	GW-75	GW-75	GW-75
				Intermediate 2021-08-20 Q8 Primary	Shallow 2019-08-14 Q1 Primary	Shallow 2019-11-08 Q2 Primary	Shallow 2020-02-05 Q3 Primary	Shallow 2020-05-07 Q4 Primary	Shallow 2020-10-14 Q5 Primary	Shallow 2021-01-29 Q6 Primary	Shallow 2021-08-20 Q8 Primary	Intermediate 2019-08-14 Q1 Primary	Intermediate 2019-11-08 Q2 Primary	Intermediate 2020-02-05 Q3 Primary	Intermediate 2020-05-07 Q4 Primary	Intermediate 2020-10-14 Q5 Primary
Field																
pH (SU)	NA	NA		7.07	7.27	7.24	7.21	7.16	7.21	7.28	7.09	7.19	7.18	7.10	7.17	7.25
SpC (uMhos/cm)	NA	NA		674.0	617.0	622.0	586.0	644.2	627.5	658.2	565.0	639.0	691.0	675.0	676.9	711.8
Temperature (°C)	NA	NA		11.91	13.00	12.40	12.62	12.27	12.25	12.36	12.36	11.40	11.40	11.26	13.76	12.87
Turbidity (ntu)	NA	NA		116.69	153.5	248.7	139.4	184.2	138.8	432.8	309.61	340.5	261.2	126.4	121.7	100.8
Dissolved Oxygen (mg/l)	NA	NA		1.18	6.20	7.50	4.81	6.54	7.11	6.46	6.49	1.70	2.00	1.48	8.57	2.62
ORP (mv)	NA	NA		-75.0	107.7	-21.9	10.8	16.1	53.8	41.7	41.3	-8.3	29.2	27.6	131.7	152.4
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
Former Dana Perfect Circle Site
551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-73	GW-74	GW-74	GW-74	GW-74	GW-74	GW-74	GW-74	GW-75	GW-75	GW-75	GW-75	GW-75
				Intermediate 2021-08-20 Q8 Primary	Shallow 2019-08-14 Q1 Primary	Shallow 2019-11-08 Q2 Primary	Shallow 2020-02-05 Q3 Primary	Shallow 2020-05-07 Q4 Primary	Shallow 2020-10-14 Q5 Primary	Shallow 2021-01-29 Q6 Primary	Shallow 2021-08-20 Q8 Primary	Intermediate 2019-08-14 Q1 Primary	Intermediate 2019-11-08 Q2 Primary	Intermediate 2020-02-05 Q3 Primary	Intermediate 2020-05-07 Q4 Primary	Intermediate 2020-10-14 Q5 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-73	GW-74	GW-74	GW-74	GW-74	GW-74	GW-74	GW-74	GW-75	GW-75	GW-75	GW-75	GW-75
				Intermediate 2021-08-20 Q8 Primary	Shallow 2019-08-14 Q1 Primary	Shallow 2019-11-08 Q2 Primary	Shallow 2020-02-05 Q3 Primary	Shallow 2020-05-07 Q4 Primary	Shallow 2020-10-14 Q5 Primary	Shallow 2021-01-29 Q6 Primary	Shallow 2021-08-20 Q8 Primary	Intermediate 2019-08-14 Q1 Primary	Intermediate 2019-11-08 Q2 Primary	Intermediate 2020-02-05 Q3 Primary	Intermediate 2020-05-07 Q4 Primary	Intermediate 2020-10-14 Q5 Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

bold = Detected Value

italics = Reporting Limit > RDCL

bold + yellow = Detected > RDCL

bold + orange = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-75	GW-75	GW-76	GW-76	GW-76	GW-76	GW-76	GW-76	GW-76	GW-76	GW-77	GW-77	GW-77
				Intermediate 2021-01-29 Q6 Primary	Intermediate 2021-08-20 Q8 Primary	Deep 2019-08-13 Q1 Primary	Deep 2019-11-07 Q2 Primary	Deep 2020-02-05 Q3 Primary	Deep 2020-05-06 Q4 Primary	Deep 2020-10-14 Q5 Primary	Deep 2021-01-29 Q6 Primary	Deep 2021-06-04 Q7 Primary	Deep 2021-08-18 Q8 Primary	Intermediate 2019-08-13 Q1 Primary	Intermediate 2019-11-07 Q2 Primary	Intermediate 2020-02-05 Q3 Primary
Field																
pH (SU)	NA	NA		7.15	6.97	7.01	7.31	7.17	7.31	6.88	7.33	7.24	7.22	7.08	7.16	7.03
SpC (uMhos/cm)	NA	NA		772.8	646.0	231.0	647.0	584.0	650.2	293.3	696.4	639.0	589.0	233.0	556.0	394.0
Temperature (°C)	NA	NA		9.20	11.48	11.80	11.50	11.49	15.99	11.67	8.53	11.54	11.51	12.90	12.10	11.56
Turbidity (ntu)	NA	NA		2686.9	78.56	13.0	145.6	201.5	73.9	6.2	55.04	57.3	60.86	109.9	378.7	16.8
Dissolved Oxygen (mg/l)	NA	NA		3.06	1.27	0.20	0.80	0.75	2.80	0.46	2.22	0.27	0.34	2.50	1.50	3.25
ORP (mv)	NA	NA		147.6	74.3	69.4	14.2	139.0	-46.2	112.5	-60.4	-119.2	-83.0	34.9	30.4	85.0
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

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551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-75	GW-75	GW-76	GW-76	GW-76	GW-76	GW-76	GW-76	GW-76	GW-76	GW-77	GW-77	GW-77
				Intermediate 2021-01-29 Q6 Primary	Intermediate 2021-08-20 Q8 Primary	Deep 2019-08-13 Q1 Primary	Deep 2019-11-07 Q2 Primary	Deep 2020-02-05 Q3 Primary	Deep 2020-05-06 Q4 Primary	Deep 2020-10-14 Q5 Primary	Deep 2021-01-29 Q6 Primary	Deep 2021-06-04 Q7 Primary	Deep 2021-08-18 Q8 Primary	Intermediate 2019-08-13 Q1 Primary	Intermediate 2019-11-07 Q2 Primary	Intermediate 2020-02-05 Q3 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.2	<1.7	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-75	GW-75	GW-76	GW-76	GW-76	GW-76	GW-76	GW-76	GW-76	GW-76	GW-77	GW-77	GW-77
				Intermediate 2021-01-29 Q6 Primary	Intermediate 2021-08-20 Q8 Primary	Deep 2019-08-13 Q1 Primary	Deep 2019-11-07 Q2 Primary	Deep 2020-02-05 Q3 Primary	Deep 2020-05-06 Q4 Primary	Deep 2020-10-14 Q5 Primary	Deep 2021-01-29 Q6 Primary	Deep 2021-06-04 Q7 Primary	Deep 2021-08-18 Q8 Primary	Intermediate 2019-08-13 Q1 Primary	Intermediate 2019-11-07 Q2 Primary	Intermediate 2020-02-05 Q3 Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID	GW-77	GW-77	GW-77	GW-77	GW-77	GW-78	GW-78	GW-78	GW-78	GW-78	GW-78	GW-78	GW-79
			Depth Designation	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Intermediate
			Date	2020-05-06	2020-10-14	2021-01-29	2021-06-04	2021-08-18	2019-08-13	2019-11-07	2020-02-05	2020-05-06	2020-10-14	2021-01-29	2021-08-17	2019-08-13
			Sample Event	Q4	Q5	Q6	Q7	Q8	Q1	Q2	Q3	Q4	Q5	Q6	Q8	Q1
			Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Field																
pH (SU)	NA	NA		7.22	7.18	7.17	7.16	7.14	7.49	7.37	7.47	7.42	7.32	7.38	7.38	7.35
SpC (uMhos/cm)	NA	NA		615.0	658.3	677.9	607.0	606.0	566.0	578.0	501.0	577.6	595.2	613.5	633.0	448.0
Temperature (°C)	NA	NA		11.91	12.21	11.98	11.86	12.02	11.60	11.30	11.36	13.94	11.39	11.48	22.72	11.20
Turbidity (ntu)	NA	NA		185.5	167.0	179.92	162.9	157.63	1.1	71.5	4.2	239.4	2.3	10.58	209.34	5.3
Dissolved Oxygen (mg/l)	NA	NA		1.50	0.64	0.39	4.45	1.25	0.30	0.60	0.10	3.48	0.45	0.03	1.61	6.10
ORP (mv)	NA	NA		50.6	-45.2	-43.0	15.0	-41.7	-113.5	-110.5	-115.3	-24.3	-118.9	-116.2	-88.4	-30.4
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

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 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-77	GW-77	GW-77	GW-77	GW-77	GW-78	GW-78	GW-78	GW-78	GW-78	GW-78	GW-78	GW-79
				Intermediate 2020-05-06 Q4 Primary	Intermediate 2020-10-14 Q5 Primary	Intermediate 2021-01-29 Q6 Primary	Intermediate 2021-06-04 Q7 Primary	Intermediate 2021-08-18 Q8 Primary	Deep 2019-08-13 Q1 Primary	Deep 2019-11-07 Q2 Primary	Deep 2020-02-05 Q3 Primary	Deep 2020-05-06 Q4 Primary	Deep 2020-10-14 Q5 Primary	Deep 2021-01-29 Q6 Primary	Deep 2021-08-17 Q8 Primary	Intermediate 2019-08-13 Q1 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.2	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-77	GW-77	GW-77	GW-77	GW-77	GW-78	GW-78	GW-78	GW-78	GW-78	GW-78	GW-78	GW-79
				Intermediate 2020-05-06 Q4 Primary	Intermediate 2020-10-14 Q5 Primary	Intermediate 2021-01-29 Q6 Primary	Intermediate 2021-06-04 Q7 Primary	Intermediate 2021-08-18 Q8 Primary	Deep 2019-08-13 Q1 Primary	Deep 2019-11-07 Q2 Primary	Deep 2020-02-05 Q3 Primary	Deep 2020-05-06 Q4 Primary	Deep 2020-10-14 Q5 Primary	Deep 2021-01-29 Q6 Primary	Deep 2021-08-17 Q8 Primary	Intermediate 2019-08-13 Q1 Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

bold = Detected Value

italics = Reporting Limit > RDCL

bold + yellow = Detected > RDCL

bold + orange = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-79	GW-79	GW-79	GW-79	GW-79	GW-79	GW-80	GW-80	GW-80	GW-80	GW-80	GW-80	GW-80
				Intermediate 2019-11-07 Q2 Primary	Intermediate 2020-02-05 Q3 Primary	Intermediate 2020-05-06 Q4 Primary	Intermediate 2020-10-14 Q5 Primary	Intermediate 2021-01-29 Q6 Primary	Intermediate 2021-08-17 Q8 Primary	Shallow 2019-08-13 Q1 Primary	Shallow 2019-11-07 Q2 Primary	Shallow 2020-02-05 Q3 Primary	Shallow 2020-05-06 Q4 Primary	Shallow 2020-10-14 Q5 Primary	Shallow 2021-01-29 Q6 Primary	Shallow 2021-08-17 Q8 Primary
Field																
pH (SU)	NA	NA		7.29	7.33	7.31	7.32	7.29	7.25	7.25	7.19	7.25	7.21	7.26	7.16	7.19
SpC (uMhos/cm)	NA	NA		608.0	554.0	583.2	520.8	647.4	602.0	636.0	647.0	603.0	636.1	645.6	5.1	638.0
Temperature (°C)	NA	NA		11.60	11.59	11.58	11.59	11.61	11.68	11.60	12.70	12.85	11.41	12.75	8.33	12.14
Turbidity (ntu)	NA	NA		14.0	15.0	11.7	33.5	13.21	4.05	28.5	180.3	333.2	218.4	576.5	768.12	397.39
Dissolved Oxygen (mg/l)	NA	NA		2.70	1.93	3.65	2.06	8.00	1.62	5.10	3.70	4.22	5.01	4.01	10.26	4.90
ORP (mv)	NA	NA		-47.9	-28.2	6.7	-61.8	78.8	-36.6	-8.8	-1.1	19.2	86.8	30.8	125.6	-84.0
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
Former Dana Perfect Circle Site
551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-79	GW-79	GW-79	GW-79	GW-79	GW-79	GW-80	GW-80	GW-80	GW-80	GW-80	GW-80	GW-80
				Intermediate 2019-11-07 Q2 Primary	Intermediate 2020-02-05 Q3 Primary	Intermediate 2020-05-06 Q4 Primary	Intermediate 2020-10-14 Q5 Primary	Intermediate 2021-01-29 Q6 Primary	Intermediate 2021-08-17 Q8 Primary	Shallow 2019-08-13 Q1 Primary	Shallow 2019-11-07 Q2 Primary	Shallow 2020-02-05 Q3 Primary	Shallow 2020-05-06 Q4 Primary	Shallow 2020-10-14 Q5 Primary	Shallow 2021-01-29 Q6 Primary	Shallow 2021-08-17 Q8 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-79	GW-79	GW-79	GW-79	GW-79	GW-79	GW-80	GW-80	GW-80	GW-80	GW-80	GW-80	GW-80
				Intermediate 2019-11-07 Q2 Primary	Intermediate 2020-02-05 Q3 Primary	Intermediate 2020-05-06 Q4 Primary	Intermediate 2020-10-14 Q5 Primary	Intermediate 2021-01-29 Q6 Primary	Intermediate 2021-08-17 Q8 Primary	Shallow 2019-08-13 Q1 Primary	Shallow 2019-11-07 Q2 Primary	Shallow 2020-02-05 Q3 Primary	Shallow 2020-05-06 Q4 Primary	Shallow 2020-10-14 Q5 Primary	Shallow 2021-01-29 Q6 Primary	Shallow 2021-08-17 Q8 Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes
 (1) RISC Residential Default Closure Levels (IDEM, 2009)
 (2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)
 (3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.
 NA = Not Available
 Dash (-) = Not Monitored/Analyzed
bold = Detected Value
italics = Reporting Limit > RDCL
bold + yellow = Detected > RDCL
bold + orange = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-81	GW-81	GW-81	GW-81	GW-81	GW-81	GW-81	GW-81	GW-82	GW-82	GW-82	GW-82	GW-82	GW-82
				Deep 2019-08-13 Q1 Primary	Deep 2019-11-07 Q2 Primary	Deep 2020-02-04 Q3 Primary	Deep 2020-05-07 Q4 Primary	Deep 2020-10-13 Q5 Primary	Deep 2021-01-27 Q6 Primary	Deep 2021-08-17 Q8 Primary	Intermediate 2019-08-13 Q1 Primary	Intermediate 2019-11-07 Q2 Primary	Intermediate 2020-02-04 Q3 Primary	Intermediate 2020-05-07 Q4 Primary	Intermediate 2020-10-13 Q5 Primary	Intermediate 2021-01-27 Q6 Primary	
Field																	
pH (SU)	NA	NA		7.34	7.57	7.43	7.23	7.22	7.09	7.23	7.40	7.22	7.35	7.26	7.01	7.04	
SpC (uMhos/cm)	NA	NA		513.0	714.0	712.0	722.3	755.7	645.5	731.0	109.0	588.0	619.0	603.1	510.2	443.5	
Temperature (°C)	NA	NA		12.80	12.10	11.92	11.91	11.92	11.96	11.98	13.30	12.00	11.67	11.88	12.16	11.90	
Turbidity (ntu)	NA	NA		19.7	12.2	92.5	30.5	415.6	493.6	139.10	21.6	32.5	69.9	80.6	54.4	42.5	
Dissolved Oxygen (mg/l)	NA	NA		8.50	6.50	0.18	0.51	0.22	0.14	0.59	9.00	2.60	1.19	1.76	3.59	0.52	
ORP (mv)	NA	NA		103.5	57.8	-99.1	-87.1	-151.1	-111.5	-103.9	94.2	44.0	35.1	38.0	134.0	-5.5	
VOCs (ug/l)																	
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
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 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-81	GW-81	GW-81	GW-81	GW-81	GW-81	GW-81	GW-81	GW-82	GW-82	GW-82	GW-82	GW-82	GW-82
				Deep 2019-08-13 Q1 Primary	Deep 2019-11-07 Q2 Primary	Deep 2020-02-04 Q3 Primary	Deep 2020-05-07 Q4 Primary	Deep 2020-10-13 Q5 Primary	Deep 2021-01-27 Q6 Primary	Deep 2021-08-17 Q8 Primary	Intermediate 2019-08-13 Q1 Primary	Intermediate 2019-11-07 Q2 Primary	Intermediate 2020-02-04 Q3 Primary	Intermediate 2020-05-07 Q4 Primary	Intermediate 2020-10-13 Q5 Primary	Intermediate 2021-01-27 Q6 Primary	
VOCs (ug/l)																	
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID	GW-81	GW-81	GW-81	GW-81	GW-81	GW-81	GW-81	GW-81	GW-82	GW-82	GW-82	GW-82	GW-82	GW-82
			Depth Designation	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
			Date	2019-08-13	2019-11-07	2020-02-04	2020-05-07	2020-10-13	2021-01-27	2021-08-17	2019-08-13	2019-11-07	2020-02-04	2020-05-07	2020-10-13	2021-01-27	
			Sample Event	Q1	Q2	Q3	Q4	Q5	Q6	Q8	Q1	Q2	Q3	Q4	Q5	Q6	
			Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
VOCs (ug/l)																	
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-82	GW-83	GW-83	GW-83	GW-83	GW-83	GW-83	GW-83	GW-84	GW-84	GW-84	GW-84	GW-84
				Intermediate 2021-08-17 Q8 Primary	Shallow 2019-08-13 Q1 Primary	Shallow 2019-11-07 Q2 Primary	Shallow 2020-02-04 Q3 Primary	Shallow 2020-05-07 Q4 Primary	Shallow 2020-10-13 Q5 Primary	Shallow 2021-01-27 Q6 Primary	Shallow 2021-08-17 Q8 Primary	Deep 2019-08-15 Q1 Primary	Deep 2019-11-06 Q2 Primary	Deep 2020-02-06 Q3 Primary	Deep 2020-05-29 Q4 Primary	Deep 2021-08-19 Q8 Primary
Field																
pH (SU)	NA	NA		7.22	7.52	7.43	7.39	7.81	7.24	7.20	7.34	7.46	7.51	7.47	7.43	7.46
SpC (uMhos/cm)	NA	NA		661.0	443.0	602.0	620.0	603.3	633.0	420.4	614.0	609.0	610.0	553.0	615.0	549.0
Temperature (°C)	NA	NA		12.39	12.60	13.20	11.27	10.69	14.39	12.05	13.78	12.00	11.50	12.08	12.88	12.05
Turbidity (ntu)	NA	NA		82.70	25.3	3125.1	18.9	1914.2	2739.1	2657	1888.40	246.3	47.4	9.5	19.9	50.12
Dissolved Oxygen (mg/l)	NA	NA		1.08	5.40	3.20	5.61	7.81	4.41	3.77	5.00	2.30	5.40	6.80	5.97	3.10
ORP (mv)	NA	NA		30.1	108.3	29.8	37.1	34.3	165.5	72.6	132.9	4.1	31.2	111.4	165.1	90.9
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-82	GW-83	GW-83	GW-83	GW-83	GW-83	GW-83	GW-83	GW-83	GW-84	GW-84	GW-84	GW-84	GW-84
				Intermediate 2021-08-17 Q8 Primary	Shallow 2019-08-13 Q1 Primary	Shallow 2019-11-07 Q2 Primary	Shallow 2020-02-04 Q3 Primary	Shallow 2020-05-07 Q4 Primary	Shallow 2020-10-13 Q5 Primary	Shallow 2021-01-27 Q6 Primary	Shallow 2021-08-17 Q8 Primary	Deep 2019-08-15 Q1 Primary	Deep 2019-11-06 Q2 Primary	Deep 2020-02-06 Q3 Primary	Deep 2020-05-29 Q4 Primary	Deep 2021-08-19 Q8 Primary	
VOCs (ug/l)																	
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7	<1.7	<1.7	<1.2
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID	GW-82	GW-83	GW-83	GW-83	GW-83	GW-83	GW-83	GW-83	GW-84	GW-84	GW-84	GW-84	GW-84
			Depth Designation	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Deep	Deep
			Date	2021-08-17	2019-08-13	2019-11-07	2020-02-04	2020-05-07	2020-10-13	2021-01-27	2021-08-17	2019-08-15	2019-11-06	2020-02-06	2020-05-29	2021-08-19
			Sample Event	Q8	Q1	Q2	Q3	Q4	Q5	Q6	Q8	Q1	Q2	Q3	Q4	Q8
			Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-85	GW-85	GW-85	GW-85	GW-85	GW-86	GW-86	GW-86	GW-86	GW-86	GW-87	GW-87	GW-87
				Intermediate 2019-08-15 Q1 Primary	Intermediate 2019-11-06 Q2 Primary	Intermediate 2020-02-06 Q3 Primary	Intermediate 2020-05-29 Q4 Primary	Intermediate 2021-08-19 Q8 Primary	Shallow 2019-08-15 Q1 Primary	Shallow 2019-11-06 Q2 Primary	Shallow 2020-02-06 Q3 Primary	Shallow 2020-05-29 Q4 Primary	Shallow 2021-08-19 Q8 Primary	Deep 2019-08-15 Q1 Primary	Deep 2019-11-05 Q2 Primary	Deep 2020-02-06 Q3 Primary
Field																
pH (SU)	NA	NA		7.64	7.34	7.29	7.22	7.28	7.28	7.17	7.16	7.21	7.11	7.98	7.70	7.51
SpC (uMhos/cm)	NA	NA		579.0	628.0	575.0	642.0	552.0	634.0	629.0	599.0	663.0	558.0	589.0	608.0	555.0
Temperature (°C)	NA	NA		12.10	11.50	11.83	12.35	12.33	12.50	11.80	12.05	11.19	12.06	11.10	10.90	10.88
Turbidity (ntu)	NA	NA		1052.9	269.8	9.5	609.2	1695.60	1413.8	498.7	130.9	591.2	516.37	347.6	74.5	51.6
Dissolved Oxygen (mg/l)	NA	NA		2.90	1.20	1.16	0.85	2.05	5.80	5.20	4.75	5.03	4.74	2.30	1.90	0.12
ORP (mv)	NA	NA		91.6	-4.4	-7.9	-50.2	-1.8	146.3	29.0	70.4	88.8	113.0	-87.6	-159.6	-154.4
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
Former Dana Perfect Circle Site
551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-85	GW-85	GW-85	GW-85	GW-85	GW-86	GW-86	GW-86	GW-86	GW-86	GW-87	GW-87	GW-87
				Intermediate 2019-08-15 Q1 Primary	Intermediate 2019-11-06 Q2 Primary	Intermediate 2020-02-06 Q3 Primary	Intermediate 2020-05-29 Q4 Primary	Intermediate 2021-08-19 Q8 Primary	Shallow 2019-08-15 Q1 Primary	Shallow 2019-11-06 Q2 Primary	Shallow 2020-02-06 Q3 Primary	Shallow 2020-05-29 Q4 Primary	Shallow 2021-08-19 Q8 Primary	Deep 2019-08-15 Q1 Primary	Deep 2019-11-05 Q2 Primary	Deep 2020-02-06 Q3 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-85	GW-85	GW-85	GW-85	GW-85	GW-86	GW-86	GW-86	GW-86	GW-86	GW-87	GW-87	GW-87
				Intermediate 2019-08-15 Q1 Primary	Intermediate 2019-11-06 Q2 Primary	Intermediate 2020-02-06 Q3 Primary	Intermediate 2020-05-29 Q4 Primary	Intermediate 2021-08-19 Q8 Primary	Shallow 2019-08-15 Q1 Primary	Shallow 2019-11-06 Q2 Primary	Shallow 2020-02-06 Q3 Primary	Shallow 2020-05-29 Q4 Primary	Shallow 2021-08-19 Q8 Primary	Deep 2019-08-15 Q1 Primary	Deep 2019-11-05 Q2 Primary	Deep 2020-02-06 Q3 Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

bold = Detected Value

italics = Reporting Limit > RDCL

bold + yellow = Detected > RDCL

bold + orange = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-87	GW-87	GW-92	GW-92	GW-92	GW-92	GW-92	GW-92	GW-92	GW-96	GW-96	GW-96	GW-96
				Deep 2020-05-28 Q4 Primary	Deep 2021-08-19 Q8 Primary	Deep 2019-08-13 Q1 Primary	Deep 2019-11-07 Q2 Primary	Deep 2020-02-06 Q3 Primary	Deep 2020-05-06 Q4 Primary	Deep 2020-10-14 Q5 Primary	Deep 2021-01-29 Q6 Primary	Deep 2021-08-18 Q8 Primary	Deep 2019-08-13 Q1 Primary	Deep 2019-11-07 Q2 Primary	Deep 2020-02-04 Q3 Primary	Deep 2020-05-07 Q4 Primary
Field																
pH (SU)	NA	NA		7.92	7.45	7.14	7.56	7.54	7.44	7.59	7.57	7.60	9.97	7.07	7.16	7.18
SpC (uMhos/cm)	NA	NA		639.6	536.0	231.0	626.0	572.0	496.5	709.6	759.2	643.0	104.0	442.0	310.0	446.6
Temperature (°C)	NA	NA		11.41	11.07	11.10	11.80	11.85	11.88	11.88	11.80	11.91	12.60	12.20	12.09	12.12
Turbidity (ntu)	NA	NA		1926.0	38.19	115.4	479.6	128.2	105.2	440.8	105.04	245.68	33.3	88.5	155.1	293.5
Dissolved Oxygen (mg/l)	NA	NA		7.10	6.70	2.80	1.40	1.29	3.44	1.05	0.01	2.13	2.70	1.80	0.16	1.92
ORP (mv)	NA	NA		146.2	-139.1	47.5	-60.1	-71.5	49.5	-108.9	-150.2	-65.3	-5.3	-33.2	-15.0	-94.5
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
Former Dana Perfect Circle Site
551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-87 Deep 2020-05-28 Q4 Primary	GW-87 Deep 2021-08-19 Q8 Primary	GW-92 Deep 2019-08-13 Q1 Primary	GW-92 Deep 2019-11-07 Q2 Primary	GW-92 Deep 2020-02-06 Q3 Primary	GW-92 Deep 2020-05-06 Q4 Primary	GW-92 Deep 2020-10-14 Q5 Primary	GW-92 Deep 2021-01-29 Q6 Primary	GW-92 Deep 2021-08-18 Q8 Primary	GW-96 Deep 2019-08-13 Q1 Primary	GW-96 Deep 2019-11-07 Q2 Primary	GW-96 Deep 2020-02-04 Q3 Primary	GW-96 Deep 2020-05-07 Q4 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.7	<1.7	<1.7	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID	GW-87	GW-87	GW-92	GW-92	GW-92	GW-92	GW-92	GW-92	GW-92	GW-96	GW-96	GW-96	GW-96
			Depth Designation	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep
			Date	2020-05-28	2021-08-19	2019-08-13	2019-11-07	2020-02-06	2020-05-06	2020-10-14	2021-01-29	2021-08-18	2019-08-13	2019-11-07	2020-02-04	2020-05-07
			Sample Event	Q4	Q8	Q1	Q2	Q3	Q4	Q5	Q6	Q8	Q1	Q2	Q3	Q4
			Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-96	GW-96	GW-96	GW-96	GW-97	GW-97	GW-97	GW-97	GW-97	GW-97	GW-97	GW-97	GW-98
				Deep 2020-10-13 Q5 Primary	Deep 2021-01-29 Q6 Primary	Deep 2021-05-18 Q7 Primary	Deep 2021-08-19 Q8 Primary	Deep 2019-08-19 Q1 Primary	Deep 2019-11-27 Q2 Primary	Deep 2020-02-17 Q3 Primary	Deep 2020-05-19 Q4 Primary	Deep 2020-10-15 Q5 Primary	Deep 2020-02-19 Q6 Primary	Deep 2021-05-19 Q7 Primary	Deep 2021-08-25 Q8 Primary	Intermediate 2019-08-13 Q1 Primary
Field																
pH (SU)	NA	NA		7.20	7.09	7.51	7.10	8.28	7.30	7.19	7.24	7.10	7.31	7.09	7.25	8.30
SpC (uMhos/cm)	NA	NA		686.3	185.5	720.0	555.0	1113.0	426.0	643.0	520.0	697.0	1001.0	660.0	634.0	464.0
Temperature (°C)	NA	NA		11.96	12.05	13.90	11.89	14.50	8.48	9.67	18.30	13.80	7.14	23.30	31.40	12.60
Turbidity (ntu)	NA	NA		88.8	131.96	88	90.72	412	2.8	2.7	3.7	0.0	9.78	2.17	62.8	14.7
Dissolved Oxygen (mg/l)	NA	NA		0.43	3.89	4.15	0.93	0.50	6.47	2.02	4.11	2.08	2.36	1.67	2.64	3.00
ORP (mv)	NA	NA		-118.3	27.0	143.9	-96.7	-176.1	70.6	7.7	138.5	177.3	216.1	217.7	89.7	89.2
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
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 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-96 Deep 2020-10-13 Q5 Primary	GW-96 Deep 2021-01-29 Q6 Primary	GW-96 Deep 2021-05-18 Q7 Primary	GW-96 Deep 2021-08-19 Q8 Primary	GW-97 Deep 2019-08-19 Q1 Primary	GW-97 Deep 2019-11-27 Q2 Primary	GW-97 Deep 2020-02-17 Q3 Primary	GW-97 Deep 2020-05-19 Q4 Primary	GW-97 Deep 2020-10-15 Q5 Primary	GW-97 Deep 2020-02-19 Q6 Primary	GW-97 Deep 2021-05-19 Q7 Primary	GW-97 Deep 2021-08-25 Q8 Primary	GW-98 Intermediate 2019-08-13 Q1 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.2	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.2	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID	GW-96	GW-96	GW-96	GW-96	GW-97	GW-97	GW-97	GW-97	GW-97	GW-97	GW-97	GW-97	GW-98
			Depth Designation	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep
			Date	2020-10-13	2021-01-29	2021-05-18	2021-08-19	2019-08-19	2019-11-27	2020-02-17	2020-05-19	2020-10-15	2020-02-19	2021-05-19	2021-08-25	2019-08-13
			Sample Event	Q5	Q6	Q7	Q8	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q1
			Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	10.8
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98
				Intermediate 2019-08-13 Q1 Duplicate	Intermediate 2019-11-18 Q2 Primary	Intermediate 2019-11-18 Q2 Duplicate	Intermediate 2020-02-04 Q3 Primary	Intermediate 2020-02-04 Q3 Duplicate	Intermediate 2020-05-07 Q4 Primary	Intermediate 2020-05-07 Q4 Duplicate	Intermediate 2020-10-14 Q5 Primary	Intermediate 2020-10-14 Q5 Duplicate	Intermediate 2021-01-29 Q6 Primary	Intermediate 2021-01-29 Q6 Duplicate	Intermediate 2021-05-18 Q7 Primary	Intermediate 2021-05-18 Q7 Duplicate
Field																
pH (SU)	NA	NA		8.30	-	-	7.32	7.32	7.15	7.15	7.14	7.14	7.21	7.21	7.13	7.13
SpC (uMhos/cm)	NA	NA		464.0	-	-	617.0	617.0	659.8	659.8	648.0	648.0	683.3	683.3	650.0	650.0
Temperature (°C)	NA	NA		12.60	-	-	12.05	12.05	12.40	12.40	11.46	11.46	12.14	12.14	13.00	13.00
Turbidity (ntu)	NA	NA		14.7	-	-	81.1	81.1	686.1	686.1	60.5	60.5	62.95	62.95	125	125
Dissolved Oxygen (mg/l)	NA	NA		3.00	-	-	2.12	2.12	1.28	1.28	3.53	3.53	1.53	1.53	2.54	2.54
ORP (mv)	NA	NA		89.2	-	-	50.1	50.1	-112.9	-112.9	104.4	104.4	101.2	101.2	146.8	146.8
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
Former Dana Perfect Circle Site
551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98
				Intermediate 2019-08-13 Q1 Duplicate	Intermediate 2019-11-18 Q2 Primary	Intermediate 2019-11-18 Q2 Duplicate	Intermediate 2020-02-04 Q3 Primary	Intermediate 2020-02-04 Q3 Duplicate	Intermediate 2020-05-07 Q4 Primary	Intermediate 2020-05-07 Q4 Duplicate	Intermediate 2020-10-14 Q5 Primary	Intermediate 2020-10-14 Q5 Duplicate	Intermediate 2021-01-29 Q6 Primary	Intermediate 2021-01-29 Q6 Duplicate	Intermediate 2021-05-18 Q7 Primary	Intermediate 2021-05-18 Q7 Duplicate
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.2
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98	GW-98
				Intermediate 2019-08-13 Q1 Duplicate	Intermediate 2019-11-18 Q2 Primary	Intermediate 2019-11-18 Q2 Duplicate	Intermediate 2020-02-04 Q3 Primary	Intermediate 2020-02-04 Q3 Duplicate	Intermediate 2020-05-07 Q4 Primary	Intermediate 2020-05-07 Q4 Duplicate	Intermediate 2020-10-14 Q5 Primary	Intermediate 2020-10-14 Q5 Duplicate	Intermediate 2021-01-29 Q6 Primary	Intermediate 2021-01-29 Q6 Duplicate	Intermediate 2021-05-18 Q7 Primary	Intermediate 2021-05-18 Q7 Duplicate
VOCs (ug/l)																
Trichloroethene	5.0	9.1		9.2	8.7	9.1	12.8	11.9	13.5	13.4	12.4	12.5	12.7	13.2	13.4	14.1
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-98	GW-98	GW-99	GW-99	GW-99	GW-99	GW-99	GW-99	GW-99	GW-99	GW-110	GW-110	GW-110
				Intermediate 2021-08-19 Q8 Primary	Intermediate 2021-08-19 Q8 Duplicate	Shallow 2019-08-13 Q1 Primary	Shallow 2019-11-07 Q2 Primary	Shallow 2020-02-04 Q3 Primary	Shallow 2020-05-07 Q4 Primary	Shallow 2020-10-14 Q5 Primary	Shallow 2021-01-29 Q6 Primary	Shallow 2021-05-18 Q7 Primary	Shallow 2021-08-19 Q8 Primary	Deep 2019-08-16 Q1 Primary	Deep 2019-11-08 Q2 Primary	Deep 2020-02-04 Q3 Primary
Field																
pH (SU)	NA	NA		7.15	7.15	8.22	7.08	7.18	7.12	7.17	7.13	7.20	7.05	7.22	7.21	7.39
SpC (uMhos/cm)	NA	NA		558.0	558.0	474.0	664.0	624.0	624.8	654.1	674.1	634.0	538.0	786.0	804.0	713.0
Temperature (°C)	NA	NA		11.66	11.66	12.30	13.10	13.76	12.19	12.90	13.37	13.30	12.46	13.40	13.30	13.30
Turbidity (ntu)	NA	NA		28.84	28.84	52.3	455.0	1,202.6	1,088.3	905.1	1,582.6	210.0	1,401.2	12.2	1.4	3.0
Dissolved Oxygen (mg/l)	NA	NA		3.27	3.27	2.50	0.80	1.04	1.83	0.52	0.84	2.74	0.88	0.20	0.70	1.87
ORP (mv)	NA	NA		163.0	163.0	78.4	10.0	107.1	120.7	81.2	108.3	104.1	151.4	-109.8	-116.6	-138.7
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-98 Intermediate 2021-08-19 Q8 Primary	GW-98 Intermediate 2021-08-19 Q8 Duplicate	GW-99 Shallow 2019-08-13 Q1 Primary	GW-99 Shallow 2019-11-07 Q2 Primary	GW-99 Shallow 2020-02-04 Q3 Primary	GW-99 Shallow 2020-05-07 Q4 Primary	GW-99 Shallow 2020-10-14 Q5 Primary	GW-99 Shallow 2021-01-29 Q6 Primary	GW-99 Shallow 2021-05-18 Q7 Primary	GW-99 Shallow 2021-08-19 Q8 Primary	GW-110 Deep 2019-08-16 Q1 Primary	GW-110 Deep 2019-11-08 Q2 Primary	GW-110 Deep 2020-02-04 Q3 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.2	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.2	<1.7	<1.7
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-98	GW-98	GW-99	GW-99	GW-99	GW-99	GW-99	GW-99	GW-99	GW-99	GW-110	GW-110	GW-110
				Intermediate 2021-08-19 Q8 Primary	Intermediate 2021-08-19 Q8 Duplicate	Shallow 2019-08-13 Q1 Primary	Shallow 2019-11-07 Q2 Primary	Shallow 2020-02-04 Q3 Primary	Shallow 2020-05-07 Q4 Primary	Shallow 2020-10-14 Q5 Primary	Shallow 2021-01-29 Q6 Primary	Shallow 2021-05-18 Q7 Primary	Shallow 2021-08-19 Q8 Primary	Deep 2019-08-16 Q1 Primary	Deep 2019-11-08 Q2 Primary	Deep 2020-02-04 Q3 Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		12.9	12.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-110	GW-110	GW-110	GW-110	GW-110	GW-111	GW-111	GW-111	GW-111	GW-111	GW-111	GW-111	GW-111
				Deep 2020-05-07 Q4 Primary	Deep 2020-10-14 Q5 Primary	Deep 2021-01-27 Q6 Primary	Deep 2021-05-19 Q7 Primary	Deep 2021-08-19 Q8 Primary	Intermediate 2019-08-13 Q1 Primary	Intermediate 2019-11-08 Q2 Primary	Intermediate 2020-02-04 Q3 Primary	Intermediate 2020-05-07 Q4 Primary	Intermediate 2020-10-14 Q5 Primary	Intermediate 2021-01-27 Q6 Primary	Intermediate 2021-05-19 Q7 Primary	Intermediate 2021-08-19 Q8 Primary
Field																
pH (SU)	NA	NA		7.09	7.07	6.95	7.05	7.06	8.72	7.15	7.17	7.07	7.13	6.85	6.99	7.05
SpC (uMhos/cm)	NA	NA		750.6	786.1	692.4	810.0	713.0	766.0	788.0	708.0	736.5	690.5	635.4	750.0	619.0
Temperature (°C)	NA	NA		13.17	13.19	13.07	18.20	13.17	12.00	13.40	14.48	12.95	13.03	13.53	14.70	12.08
Turbidity (ntu)	NA	NA		109.0	0.2	5.56	3.68	2.25	17.2	143.0	128.8	413.1	2,021.8	5,530.1	54.7	411.4
Dissolved Oxygen (mg/l)	NA	NA		0.06	0.44	0.00	3.60	0.37	5.30	0.70	0.25	0.89	0.83	2.14	3.00	2.03
ORP (mv)	NA	NA		-124.9	-106.9	-76.5	181.4	-61.3	116.0	-73.4	-72.5	6.0	-87.2	-31.0	165.1	201.5
VOCs (ug/l)																
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

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551/552 S. Washington St., Hagerstown (Wayne Co.)
VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-110	GW-110	GW-110	GW-110	GW-110	GW-111	GW-111	GW-111	GW-111	GW-111	GW-111	GW-111	GW-111
				Deep 2020-05-07 Q4 Primary	Deep 2020-10-14 Q5 Primary	Deep 2021-01-27 Q6 Primary	Deep 2021-05-19 Q7 Primary	Deep 2021-08-19 Q8 Primary	Intermediate 2019-08-13 Q1 Primary	Intermediate 2019-11-08 Q2 Primary	Intermediate 2020-02-04 Q3 Primary	Intermediate 2020-05-07 Q4 Primary	Intermediate 2020-10-14 Q5 Primary	Intermediate 2021-01-27 Q6 Primary	Intermediate 2021-05-19 Q7 Primary	Intermediate 2021-08-19 Q8 Primary
VOCs (ug/l)																
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.2	<1.2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.2
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-110	GW-110	GW-110	GW-110	GW-110	GW-111	GW-111	GW-111	GW-111	GW-111	GW-111	GW-111	GW-111
				Deep 2020-05-07 Q4 Primary	Deep 2020-10-14 Q5 Primary	Deep 2021-01-27 Q6 Primary	Deep 2021-05-19 Q7 Primary	Deep 2021-08-19 Q8 Primary	Intermediate 2019-08-13 Q1 Primary	Intermediate 2019-11-08 Q2 Primary	Intermediate 2020-02-04 Q3 Primary	Intermediate 2020-05-07 Q4 Primary	Intermediate 2020-10-14 Q5 Primary	Intermediate 2021-01-27 Q6 Primary	Intermediate 2021-05-19 Q7 Primary	Intermediate 2021-08-19 Q8 Primary
VOCs (ug/l)																
Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	37.1	15.4	12.9	15.7	15.8	7.8	5.4	8.1
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

Dash (-) = Not Monitored/Analyzed

- bold** = Detected Value
- italics* = Reporting Limit > RDCL
- bold + yellow** = Detected > RDCL
- bold + orange** = Detected > RDCL and R-VE-GWSL (shallow wells only)

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-112	GW-112	GW-112	GW-112	GW-112	GW-112	GW-112	GW-112	
				Shallow 2019-08-13 Q1 Primary	Shallow 2019-11-08 Q2 Primary	Shallow 2020-02-04 Q3 Primary	Shallow 2020-05-07 Q4 Primary	Shallow 2020-10-14 Q5 Primary	Shallow 2021-01-27 Q6 Primary	Shallow 2021-05-19 Q7 Primary	Shallow 2021-08-19 Q8 Primary	
Field												
pH (SU)	NA	NA		8.30	7.09	7.21	7.44	7.08	6.95	6.98	7.06	
SpC (uMhos/cm)	NA	NA		580.0	751.0	713.0	670.8	744.7	663.5	750.0	627.0	
Temperature (°C)	NA	NA		13.40	14.80	13.19	11.14	14.75	12.87	12.90	13.98	
Turbidity (ntu)	NA	NA		184.4	725.1	460.6	8.5	957.8	569.6	72.3	309.2	
Dissolved Oxygen (mg/l)	NA	NA		3.80	3.60	5.80	4.34	5.51	6.63	4.45	4.92	
ORP (mv)	NA	NA		132.6	-29.7	-6.2	95.2	25.9	62.3	210.3	205.3	
VOCs (ug/l)												
1,1,1,2-Tetrachloroethane	6.9	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,1,1-trichloroethane	200	13000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,1,2,2-Tetrachloroethane	0.9	72.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,1,2-Trichloroethane	5.0	11.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,1-Dichloroethane	990	130		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,1-Dichloroethene	7.0	300		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,1-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2,3-Trichlorobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2,3-Trichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2,4-Trichlorobenzene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2,4-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2-Dibromoethane (EDB)	0.05	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2-Dichlorobenzene	600	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2-Dichloroethane	5.0	50.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2-Dichloropropane	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,3,5-Trimethylbenzene	16.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,3-Dichlorobenzene	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,3-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,4-Dichlorobenzene	75.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1-Methylnaphthalene	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
2,2-Dichloropropane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
2-Butanone (MEK)	8400	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	
2-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
2-Hexanone	NA	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	
2-Methylnaphthalene	31.0	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
4-Chlorotoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
4-Methyl-2-pentanone (MIBK)	2200	NA		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	
Acetone	6900	NA		<100	<100	<100	<100	<100	<100	<100	<100	
Acrolein	0.055	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	
Acrylonitrile	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	

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 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID Depth Designation Date Sample Event Sample Type	GW-112	GW-112	GW-112	GW-112	GW-112	GW-112	GW-112	GW-112	
				Shallow 2019-08-13 Q1 Primary	Shallow 2019-11-08 Q2 Primary	Shallow 2020-02-04 Q3 Primary	Shallow 2020-05-07 Q4 Primary	Shallow 2020-10-14 Q5 Primary	Shallow 2021-01-27 Q6 Primary	Shallow 2021-05-19 Q7 Primary	Shallow 2021-08-19 Q8 Primary	
VOCs (ug/l)												
Benzene	5.0	28.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Bromobenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Bromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Bromodichloromethane	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Bromoform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Bromomethane	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Carbon disulfide	1300	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Carbon tetrachloride	5.0	6.5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Chlorobenzene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Chloroethane	62.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Chloroform	80.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Chloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
cis-1,2-Dichloroethene	70.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
cis-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Dibromochloromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Dibromomethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Dichlorodifluoromethane	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Ethyl methacrylate	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	
Ethylbenzene	700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Hexachloro-1,3-butadiene	11.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Iodomethane	NA	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Isopropylbenzene	830	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Methylene Chloride	5.0	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Methyl t-butyl ether (MTBE)	40.0	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
Naphthalene	8.3	110		<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.2	<1.2	
n-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
n-Hexane	540	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
n-Propylbenzene	310	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
p-Isopropyltoluene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
sec-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Styrene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
tert-Butylbenzene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Tetrachloroethene	5.0	110		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Toluene	1000	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
trans-1,2-Dichloroethene	100	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
trans-1,3-Dichloropropene	NA	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
trans-1,4-Dichloro-2-butene	NA	NA		<100	<100	<100	<100	<100	<100	<100	<100	

Table 9
 Groundwater Analytical Data, Confirmation Sampling, Sentinel & Downgradient
 Former Dana Perfect Circle Site
 551/552 S. Washington St., Hagerstown (Wayne Co.)
 VRP Site No. 6071001

CONSTITUENT	RISC RDCLs ⁽¹⁾	RCG R-VE- GWSLs	Site ID	GW-112	GW-112	GW-112	GW-112	GW-112	GW-112	GW-112	GW-112
			Depth Designation	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
			Date	2019-08-13	2019-11-08	2020-02-04	2020-05-07	2020-10-14	2021-01-27	2021-05-19	2021-08-19
			Sample Event	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
			Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary

VOCs (ug/l)

Trichloroethene	5.0	9.1		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	1700	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	550	NA		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2.0	2.1		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	10000	NA		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Notes

(1) RISC Residential Default Closure Levels (IDEM, 2009)

(2) RCG Residential Vapor Exposure Groundwater Screening Levels (IDEM, 2016)

(3) Access denied at 827 S Washington Street in Q4 2020 and Q1 2021.

NA = Not Available

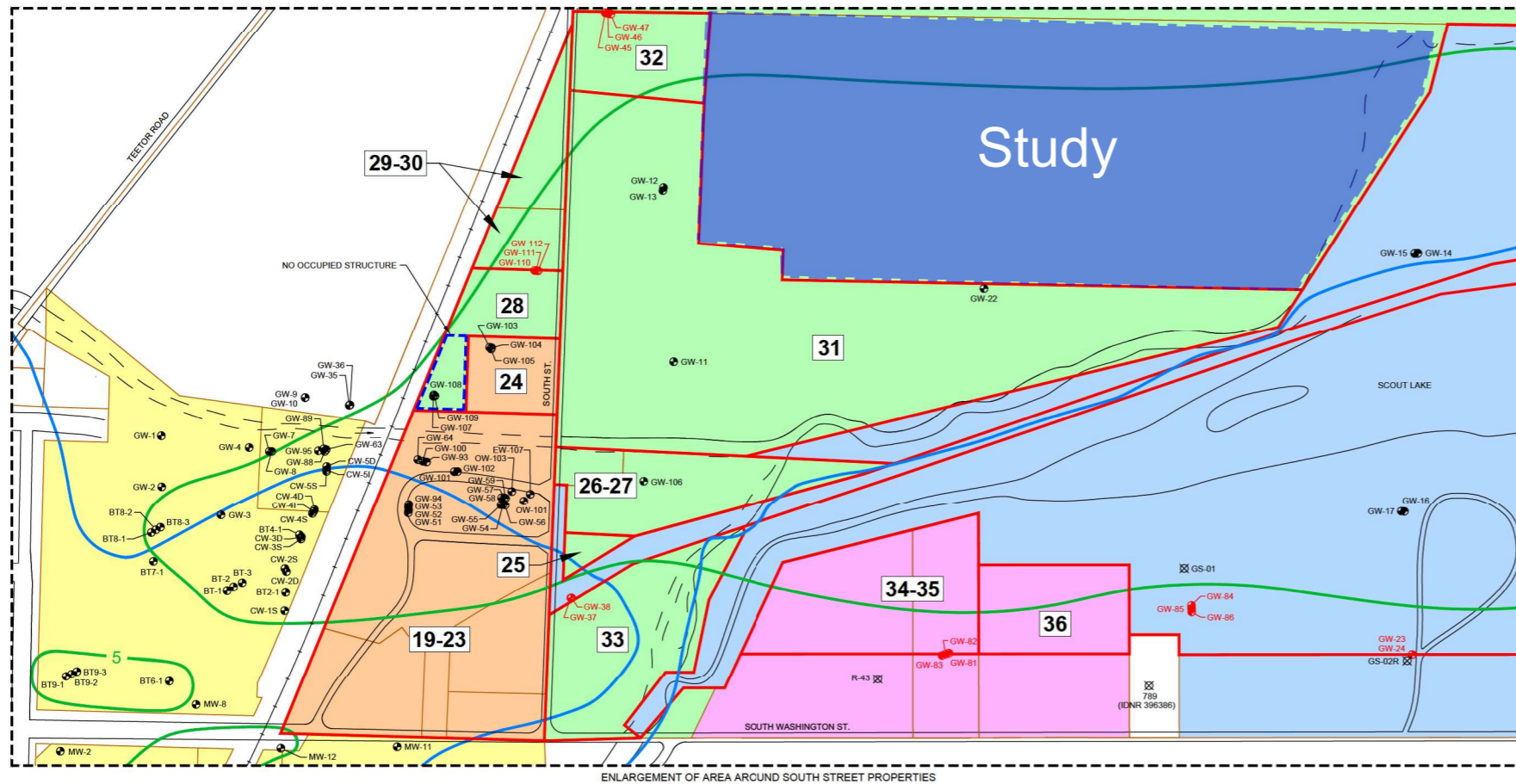
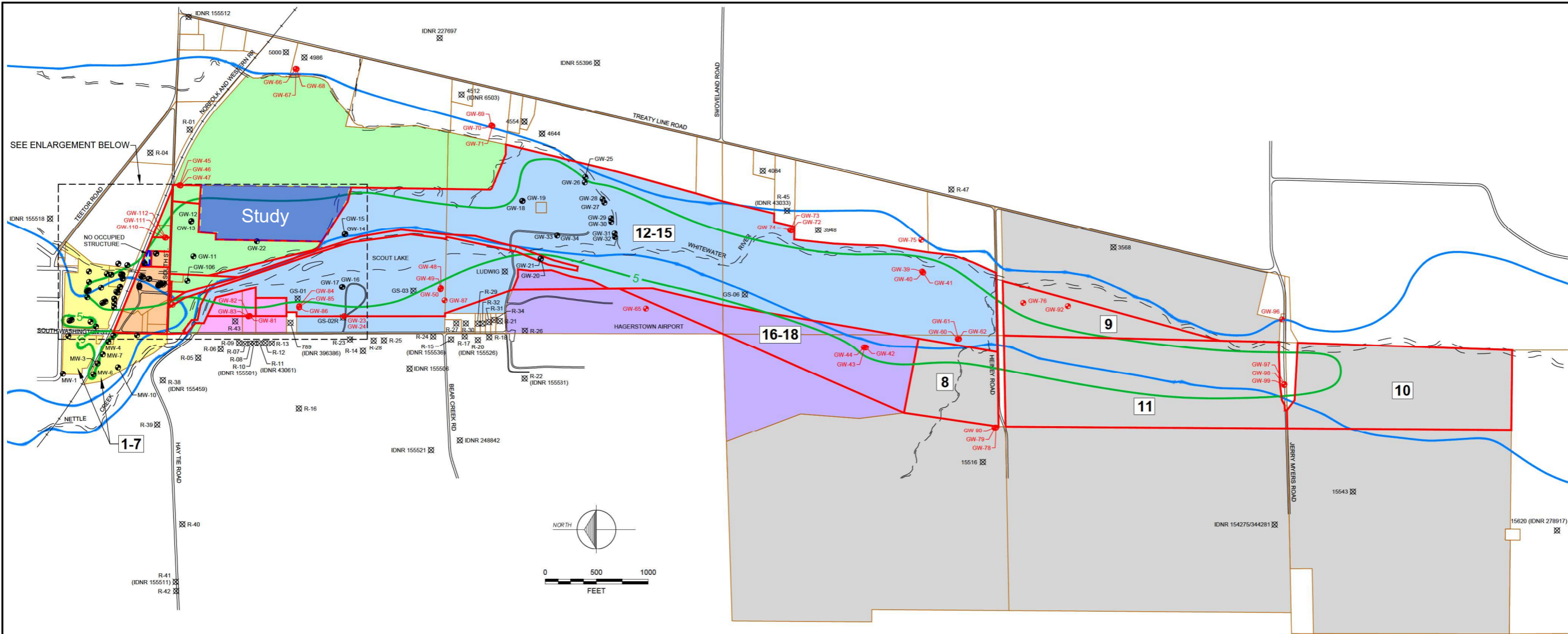
Dash (-) = Not Monitored/Analyzed

bold = Detected Value

italics = Reporting Limit > RDCL

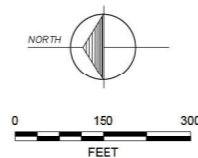
bold + yellow = Detected > RDCL

bold + orange = Detected > RDCL and R-VE-GWSL (shallow wells only)



- LEGEND**
- ⊗ PRIVATE WELL
 - SENTINEL MONITORING WELL NETWORK
 - MONITORING WELL
 - 8 PARCEL REFERENCE NUMBER
 - PARCEL BOUNDARY
 - PROPOSED AREA OF GROUNDWATER USE RESTRICTION
 - - - AREA OF PROPOSED RESTRICTION AS LABELED
 - 5 APPROXIMATE EXTENT OF TCE PLUME (5 µg/L)
 - FLOODWAY BOUNDARY
 - AUTOCAR / HAGERSTOWN LAND PROPERTIES (SITE)
 - NEAR-SITE INSTITUTIONAL PROPERTIES
 - PROPERTIES ALONG SOUTH STREET
 - PROPERTIES ALONG SOUTH WASHINGTON STREET
 - FORMER CAMP WAPI-KAMIGI CO. PARCELS
 - HAGERSTOWN AIRPORT
 - DOWNGRADIENT AGRICULTURAL PROPERTIES

- NOTES**
1. PARCEL BOUNDARIES, PROPERTY OWNER NAMES AND STREET ADDRESS NUMBERS TAKEN FROM WAYNE COUNTY, INDIANA GIS WEB SITE (<http://gis.co.wayne.in.us/maps>).
 2. FLOODWAY BOUNDARY TAKEN FROM NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP (FIRM), WAYNE COUNTY, INDIANA AND INCORPORATED AREAS, MAP NUMBERS 18177C0119E, 18177C0117E, 18177C0118E, 18177C0119E AND 18177C0210E, EFFECTIVE DATE APRIL 2, 2015.
 3. THE BASIS FOR THE APPROXIMATE EXTENT OF TCE PLUME IS SUMMARIZED IN SECTION II.C.4.c OF THE RWP.



ISSUE/REVISION		
I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER	60336962
SHEET TITLE	PROPERTY-SPECIFIC RISK EVALUATION AND INSTITUTIONAL CONTROLS MAP
SHEET NUMBER	7