

# East End Laundry and Crystal Coin Laundry

302 E Main Street, Peru, Miami County

SCP Site #0001181

# RM record



## Indiana Department of Environmental Management RM Record

### Description

Incident # 107496

**Received By:** Keller, Joshua

**Received Date:** 06/08/2023 10:35 am

**Incident Description:** VRP referral. VRP Site (Square D, Site #6211202). Additional off-site sources contributing to the groundwater contaminant plume. Former dry cleaner(s) located directly across the street.

**Incident Type:** Complaint-Other

**Regulatory Program:** State Cleanup

**Incident Status:** Closed

### Location

**Location Description:** Former Dry Cleaner (Crystal Coin and East End Laundry)  
302 East Main Street  
Peru, Indiana 46970

**County:** Miami

# Reporter

## Source Entity

**Source Type:** Agency Interest

**Telecom:** Email address 1 ncday@idem.in.gov

## Reporter

**Reporter Type:** Consultant/Contractor

**Name:** Nadine Weinberg

**Title:** Partner in Charge

**Organization:** Environmental Resources Management (ERM)

**Address 1:** 8425 Woodfield Crossing Boulevard, Suite 560-W

**Municipality:** Indianapolis

**State:** IN

**Zip Code:** 46204

**Telecom:** Business phone number 1 (317) 706-2000

# Inner Agency Correspondence

**From:** [CHESTERSON, DANIEL](#)  
**To:** [Keller, Joshua](#)  
**Cc:** [Day, Chelsea](#); [HOLLAND, BILL](#); [Davis, Kevin](#)  
**Subject:** FW: Site Referral 5/11/2023 - Peru drycleaner (Crystal Coin & East End Laundry - 302 E. Main St.)  
**Date:** Friday, May 12, 2023 12:17:27 PM  
**Attachments:** [Referral Form May 2023.doc](#)  
[image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)

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Josh – Off-site contamination was found during an investigation at the Square D VRP site in Peru. PCE has been detected in groundwater in a boring (APS-104) at various depths (444 ppb [13 ft], 1,500 ppb [18 ft], 2,070 ppb [21 ft] and 80 ppb [25 ft]). Other VOCs were also detected including TCE, vinyl chloride, and cis-1,2-DCE at levels exceeding the IDEM RGW SL. There is a former drycleaner (Crystal Coin [1962-75] and East End laundry [1977-90]) located at 302 E. Main St. which is just essentially across the street from the boring location.

The site is not located within a WHPA. However, there are numerous residences located in this area and VI could be an issue.

**The Site Investigation Program refers this site to the State Cleanup Program.**

TEMPO360 Master AI #: Needed (the former drycleaning site/address is not in TEMPO360 – it is in the SiteSeer database).

Thanks,  
Dan

## Miami County, IN

306 E MAIN St, PERU, IN 46970  
52-08-27-401-392.000-016

# Site address and Occupant

- The Site is currently addressed:
  - 306 E. Main Street
- Previous address
  - 302 E Main Street
- Previous occupants
  - Crystal Coin Laundry – 1962 – 1975
  - East End Laundry – 1977- 1990



### Parcel Information

**Parcel Number:** 52-08-27-401-392.000-016  
**Alt Parcel Number:** 021-44244-00  
**Property Address:** 306 E MAIN St  
PERU, IN 46970  
**Neighborhood:** East End Business District  
**Property Class:** Other Retail Structures  
**Owner Name:** Evenson, Bridgette M  
**Owner Address:** 288 E Main St  
PERU, IN 46970  
**Legal Description:** 021-44244-00 GODFROY ADD; 00-00-00;  
.00 LOT 225 42 092 44000

### Taxing District

**Township:** PERU TOWNSHIP  
**Corporation:** PERU COMMUNITY

### Land Description

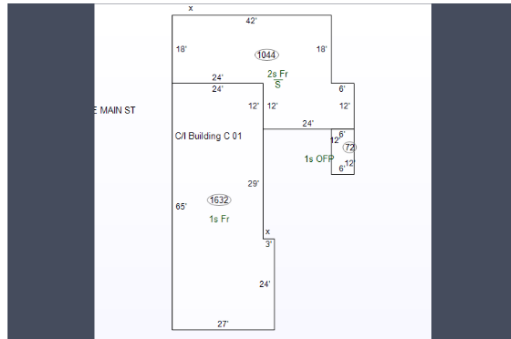
<u>Land Type</u>	<u>Acreage</u>	<u>Dimensions</u>
Fci	None	66x93
Fci	None	66x39

# Street View



# PRC and Past owners listed

- The Site was sold on August 18 to the current flower shop tenant
- Dry cleaning operations 1962- 1990



[Download Photos](#)

## Parcel Information

Owner Name	Nice, Larry W & Toni
Owner Address	638 E 5th St Peru, In 46970
Parcel Number	52-08-27-401-392.000-016
Alt Parcel Number	021-44244-00
Property Address	306 E Main St, Peru, In 46970
Property Class Code	429
Property Class	Other Retail Structures
Neighborhood	East End Business District, 15903-016
Legal Description	021-44244-00 GODFROY ADD; 00-00-00;.00 LOT 225 42 092 44000

## Taxing District

Township	Peru Township
Corporation	Peru Community
Taxing District Name	Peru City-peru Township
Taxing District Number	016

## Transfer of Ownership

Date	Name	Buyer	Document	Deed Type	Sale Price
1900-01-01	Fletcher, Harold			Wd	
2006-01-23	Bitner, Rebecca And Harrison, Ramona		06 - 0281	Qc	
2008-02-14	Bitner, Rebecca And Harrison, Ramona		08 - 0693	Wd	\$50,000.00
2008-02-20	Harmon, Bridgette M, Annamarie		08 - 0753	Wd	\$50,000.00
2019-09-23	Harmon-smith, Bridgette M & Jeremy Gouvan		19 - 3887	Qu	
2022-11-02	Evenson, Bridgette M		22 - 4944	Qu	
2023-08-18	Nice, Larry W & Toni			Warranty Deed	\$145,000.00

## Summary of Improvements

Buildings	Grade	Condition	Construction Year	Effective Year	Area
Utility Shed R 01	C	F	1970	1970	64
Single-family R 01	D+2	G	1900	1942	1,553
C/i Building C 01	D	A	1920	1920	3,720

# Rebecca Bitner



## Current Address

[718 E Gano St](#)

[Kokomo, IN 46901](#)

2 Bed | 1 Bath | 672 Sq Ft | Built 1953

Howard County

(May 1989 - Aug 2023)



- Rebecca is still living, probably elderly but was an owner between the dry cleaning time period and the current time



## IN Biz

- No entries in the business directory for East End Laundry or Crystal Coin at the Site location
- None for Harold Fletcher – first listed owner of the Site
- No entries for the Site addresses
- No entries for the current and previous owners
- Current occupant is a flower shop and possibly a residential apartment; business owner and property owner are different people

# Dry Cleaners database

East End Laundry	302 E Main St	Peru	Subtype Not Recorded	1977	Polk City Directory
East End Laundry	302 E Main St	Peru	Subtype Not Recorded	1979	Polk City Directory
East End Laundry	302 E Main St	Peru	Subtype Not Recorded	1981	Polk City Directory
East End Laundry	302 E Main St	Peru	Subtype Not Recorded	1983	Polk City Directory
East End Laundry	302 E Main St	Peru	Subtype Not Recorded	1984	Polk City Directory
East End Laundry	302 E Main St	Peru	Subtype Not Recorded	1987	Polk City Directory
East End Laundry	302 E Main St	Peru	Subtype Not Recorded	1990	Polk City Directory
Crystal Coin Laundry	302 E Main St	Peru	Subtype Not Recorded	1962	Polk City Directory
Crystal Coin Laundry	302 E Main St	Peru	Subtype Not Recorded	1969	Polk City Directory
Crystal Coin Laundry	302 E Main St	Peru	Subtype Not Recorded	1975	Polk City Directory

# Current occupant

Articles of incorporation filed this year on 3/6/2023



IN BIZ

IN.gov

## Business Details

Business Name: **PERU'S HOMETOWN CREATIONS, LLC**  
Entity Type: **Domestic Limited Liability Company**  
Creation Date: **03/06/2023**  
Principal Office Address: **300 E. Main St., Peru, IN, 46970, USA**  
Jurisdiction of Formation: **Indiana**

Business ID: **202303061670103**  
Business Status: **Active**  
Inactive Date:  
Expiration Date: **Perpetual**  
Business Entity Report Due Date: **03/31/2025**  
Years Due:

## Governing Person Information

Title	Name	Address
Member	Toni M. Nice	638 E. 5th St., Peru, IN, 46970, USA

Page 1 of 1, records 1 to 1 of 1

## Registered Agent Information

Type: **Individual**  
Name: **Toni M. Nice**  
Address: **638 E. 5th St., Peru, IN, 46970, USA**

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# Owner is deceased: Harold Fletcher – transfers property to

- Jan. 6, 1920 - Jan. 9, 2006

PERU - Harold E. Fletcher, 86, of Peru and formerly of Kokomo, died at 5 a.m. Monday, Jan. 9, 2006, at Northwood Village Health Care Center in Kokomo.

He was born Jan. 6, 1920, in Forest, the son of Thomas Dayton and Iva (Baker) Fletcher. On May 4, 1946, he married Ruth E. Chism, in Peru, who preceded him in death July 26, 1996.

He was a business man and had owned Fletcher Grocery, Victory Dinner and Kosan Lunch restaurants, Ruth's Follies Resort on Lake Shaffer and the East End Laundromat in Peru.

He graduated from Kokomo High School in 1940.

He served in the Army in World War II, in Germany. He was a prisoner of war and received two Bronze Stars, a Purple Heart and many service ribbons.

He was an avid sports fan and enjoyed watching the Pacers, Indiana University basketball and football and the St. Louis Cardinals on television.

Surviving are two step-daughters, Mona Harrison and husband Tom, Kokomo, and Becky Bitner, Kokomo; four step-grandchildren, Matt Harrison and wife Patti, Kokomo, Guy Harrison and wife Nancy, Ft. Myers, Fla., Doug Bitner and wife Jancie, Kokomo, and Crystal Dyar, Kokomo; seven great-grandchildren, Amie McFadden, Jason McFadden, Zachary Harrison, Alec Harrison, Nicole Harrison, Morgan Dyar and Katie Klein; a brother and sister-in-law, Tom Doyal and Ruth Fletcher, Largo, Fla., and three sisters, Norma Jean Mann and husband Delbert, Kokomo, Edna Canard and husband Luther, Kokomo, and Arlene McNally, of Henderson, Nev.; and a brother-in-law and sister-in-law, Bill and Roma Chism of Galveston.

He was preceded in death by his wife, parents, a brother and two sisters.

Services are 1 p.m. Thursday at Eilers Webster Street Mortuary, 3400 S. Webster St., with burial to follow at Crown Point Cemetery. Rev. Ted Dudzinski will officiate. Graveside military service will be conducted by the U.S. Army and VFW Military Rites Team. Calling will be from 4 to 8 p.m. Wednesday at the mortuary.

# Square D Investigations- excerpt from Comment Letter

## [#83488398](#)

5. *TCE in shallow groundwater appear to be migrating east-southeast, and RRCs are adequately characterized to the north, northeast, and southwest of the site. Additional characterization of the groundwater plume is needed downgradient (southeast of MW-32S) of the site.*

As presented in SIRA #3, the overburden groundwater delineation is complete. IDEM's comment letter dated 6 June 2023 states that "off-site dissolved RRCs in the overburden appear adequately characterized. Quarterly monitoring is required to verify adequate characterization". The quarterly groundwater monitoring program was briefly discussed with you during a call on 13 June 2023 and will be summarized in VRIPA #5. ERM is anticipating that the quarterly groundwater monitoring will commence in July 2023.

### Response to IDEM's 6 June 2023 Comment Letter

1. *Off-site dissolved RRCs in the overburden appear adequately characterized. Quarterly monitoring is required to verify adequate characterization.*

Agreed.

2. *Further investigation of RRCs in bedrock was proposed and is appropriate.*

Agreed. Additional bedrock characterization is being planned for July 2023. The scope of work and schedule will be communicated to IDEM once finalized.

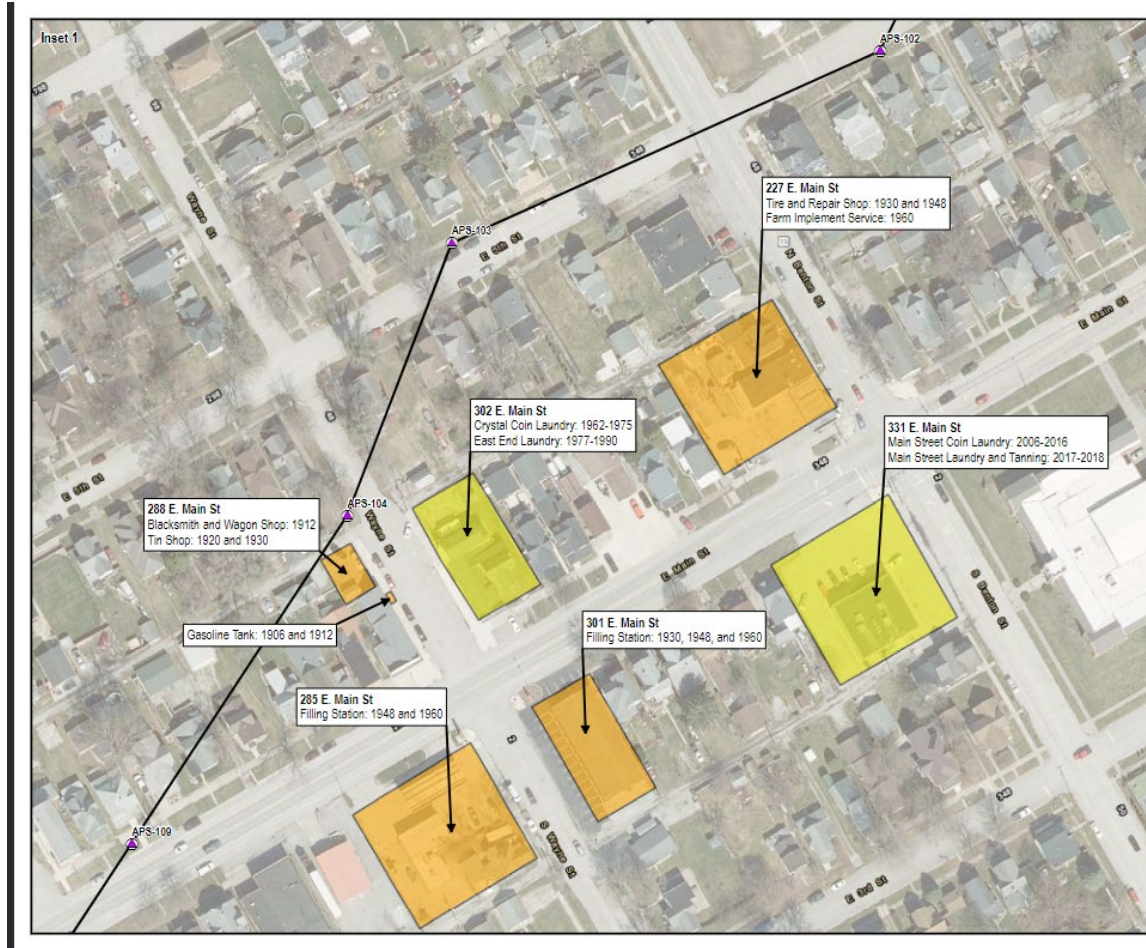
3. *VRP has referred the identified potential off-site sources near APS-104 to the State Cleanup Program. VRP concurs that the detected VOCs appear unrelated to this site and likely originate from a source near the boring.*

Agreed.

# Square D Investigations – PRP suggestion for additional contributing source #83473102

- Several potential off-Site sources unrelated to the former Square D operations were identified near APS-104 and are depicted on **Figure 9**. ERM reviewed information obtained from Lightbox Environmental Data Resources (EDR) and IDEM's Dry Cleaner and Laundry Data Set for potential off-Site sources. Copies of the EDR reports are provided in **Attachment C**. ERM identified potential off-Site VOC sources near APS-104 including a former laundry operation at 301 East Main Street, which is across the street from APS-104.

# Map depicting EDR findings and Transect D (includes APS -4)



- The property with the most potential here appears to be the East End Laundry Site. This NOL will go to the current owner of this building

# Groundwater flow – east southeast

## 1. APPROACH

This work plan describes installation of a pilot-scale permeable reactive barrier (PRB) for overburden groundwater flowing east-southeastward from the Former Square D Plant 1 (Site) in Peru, Indiana (Figure 1). The PRB will be installed using injections that will target the overburden saturated zone, which is anticipated to start approximately 11 to 15 feet below ground surface (ft bgs) and extend downward to approximately 24 to 31 ft bgs. The PRB pilot test will target an approximately 310-foot length (southwest to northeast) perpendicular to groundwater flow with relatively higher concentrations off-site of release-related chemicals (RRC), including trichloroethene (TCE) and related chlorinated volatile organic compounds (cVOCs) (Figure 2).



**Table 1 - Waterloo<sup>AP5</sup> Groundwater Analytical Results  
Former Square D  
252 North Tippecanoe Street, Peru, IN**

	Location ID	APS-101	APS-101	APS-101	APS-102	APS-102	APS-102	APS-103	APS-103	APS-103	APS-103
	Sample Date	3/23/2023	3/23/2023	3/23/2023	3/20/2023	3/20/2023	3/20/2023	3/21/2023	3/21/2023	3/21/2023	3/21/2023
	Sample Type	N	N	N	N	N	N	N	N	N	N
	Sample Depth	13.0-13.0 ft	18.0-18.0 ft	22.4-22.4 ft	11.8-11.8 ft	16.8-16.8 ft	17.0-17.0 ft	16.3-16.3 ft	18.3-18.3 ft	19.5-19.5 ft	33.6-33.6 ft
Analyte	Unit	IDEM RGW SL 2023									
Volatile Organic Compounds											
Tetrachloroethene	µg/L	<b>5</b>	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	µg/L	<b>5</b>	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	µg/L	<b>70</b>	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	µg/L	100	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl chloride	µg/L	<b>2</b>	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	µg/L	200	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	µg/L	30	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	µg/L	7	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzene	µg/L	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Toluene	µg/L	1,000	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	µg/L	700	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Xylenes, total	µg/L	10,000	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
m,p-Xylenes	µg/L	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
o-Xylene	µg/L	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon tetrachloride	µg/L	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	µg/L	100	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform	µg/L	80	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Naphthalene	µg/L	1	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2

Notes:

N = Normal

FD = Field Duplicate

NS = No standard, xylene isomers regulated as total xylenes

J = Estimated concentration below laboratory reporting limit

µg/L = micrograms per liter

< = Compound not detected above the laboratory reporting detection limit as shown

**Bold** = Analyte was detected above laboratory reporting limit.

IDEM RGW SL 2023 = IDEM Residential Long Term Groundwater Screening Level (IDEM

R2 - March 2023)

Concentrations highlighted in purple exceed the Residential Long Term Groundwater Screening Level (IDEM R2 - March 2023)

**Table 1 - Waterloo<sup>APS</sup> Groundwater Analytical Results  
Former Square D  
252 North Tippecanoe Street, Peru, IN**

		Location ID	APS-103	APS-103	APS-104	APS-104	APS-104	APS-104	APS-104	APS-104	APS-105	APS-105	APS-105
		Sample Date	3/21/2023	3/21/2023	3/22/2023	3/22/2023	3/22/2023	3/22/2023	3/22/2023	3/22/2023	3/23/2023	3/23/2023	3/23/2023
		Sample Type	N	N	FD	N	N	N	N	N	N	N	N
		Sample Depth	36.9-36.9 ft	40.3-40.3 ft	13.0-13.0 ft	13.0-13.0 ft	18.0-18.0 ft	21.4-21.4 ft	24.9-24.9 ft	11.5-11.5 ft	22.0-22.0 ft	27.0-27.0 ft	
Analyte	Unit	IDEM RGW SL 2023											
Volatile Organic Compounds													
Tetrachloroethene	µg/L	5	< 5	< 5	<b>438</b>	<b>444</b>	<b>1,500</b>	<b>2,070</b>	<b>80.3</b>	< 5	< 5	< 5	
Trichloroethene	µg/L	5	< 5	<b>0.57 J</b>	<b>11.3</b>	<b>12.1</b>	<b>57.5</b>	<b>1,420</b>	<b>139</b>	< 5	< 5	< 5	
cis-1,2-Dichloroethene	µg/L	70	< 5	<b>7.3</b>	<b>9.3</b>	<b>9.6</b>	<b>29.1</b>	<b>2,060</b>	<b>1,230</b>	< 5	< 5	< 5	
trans-1,2-Dichloroethene	µg/L	100	< 5	< 5	< 5	< 5	< 5	<b>14.6</b>	<b>5.5</b>	< 5	< 5	< 5	
Vinyl chloride	µg/L	2	< 2	< 2	< 2	< 2	< 2	<b>4.1</b>	<b>38.9</b>	< 2	< 2	< 2	
1,1,1-Trichloroethane	µg/L	200	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	
1,1-Dichloroethane	µg/L	30	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	
1,1-Dichloroethene	µg/L	7	< 5	< 5	< 5	< 5	< 5	<b>5.7</b>	<b>3.1 J</b>	< 5	< 5	< 5	
Benzene	µg/L	5	< 5	< 5	< 5	< 5	< 5	<b>0.94 J</b>	<b>2.6 J</b>	< 5	< 5	< 5	
Toluene	µg/L	1,000	< 5	< 5	< 5	< 5	< 5	<b>0.30 J</b>	< 5	< 5	< 5	< 5	
Ethylbenzene	µg/L	700	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	
Xylenes, total	µg/L	10,000	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	
m,p-Xylenes	µg/L	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	
o-Xylene	µg/L	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	
Carbon tetrachloride	µg/L	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	
Chlorobenzene	µg/L	100	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	
Chloroform	µg/L	80	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	
Naphthalene	µg/L	1	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	

Notes:  
N = Normal  
FD = Field Duplicate  
NS = No standard, xylene isomers regulated as total xylenes  
J = Estimated concentration below laboratory reporting limit  
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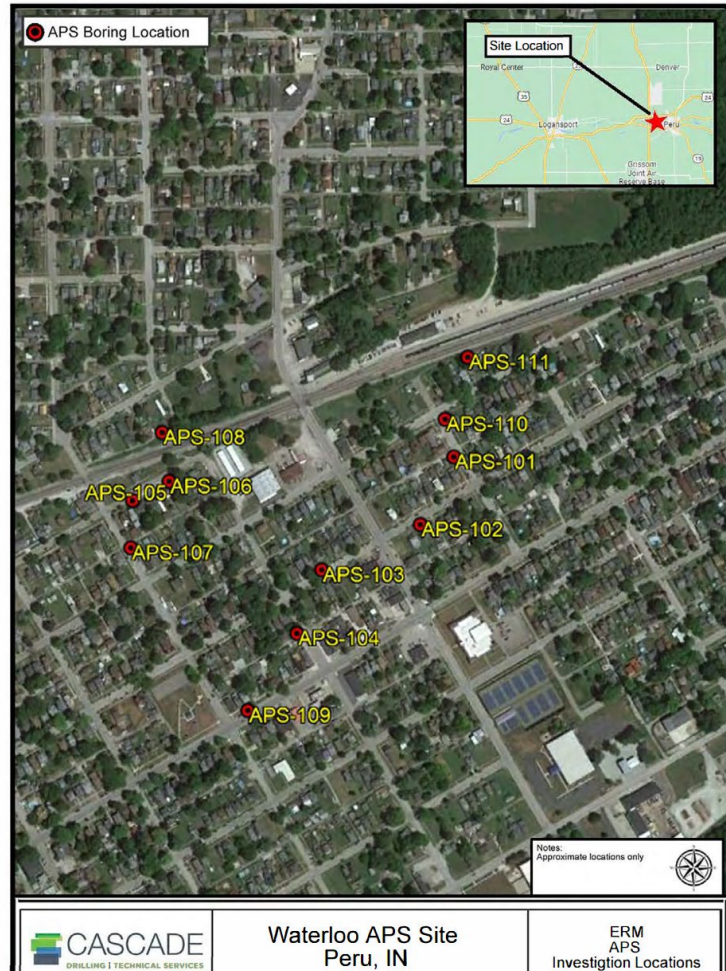
# Square D Investigation continued ....

## CASCADE HIGH RESOLUTION SITE CHARACTERIZATION

### SOP DEVIATIONS SUMMARY TABLE

The table below provides a summary of deviations from the SOP and short explanations of those instances, where appropriate. Not all locations contained deviations from the SOP.

Location	Sample Depth (feet)	Parameters That Did Not Meet Stabilization Criteria	Comments
APS101	-18.0, -22.4	ORP	Samples collected prior to full parameter stabilization due to reaching established maximum purge volume.
APS102	-16.8, -17.0	ORP	Samples collected prior to full parameter stabilization due to reaching established maximum purge volume.
APS103	-18.3, -33.7, -36.9, -40.3	ORP	Samples collected prior to full parameter stabilization due to reaching established maximum purge volume.
APS104	-21.4, -24.9	ORP	Samples collected prior to full parameter stabilization due to reaching established maximum purge volume.
APS105	-22.0 -27.9	ORP DO, ORP	Samples collected prior to full parameter stabilization due to reaching established maximum purge volume.
APS106	-22.4, -23.4 -24.3, -26.0, -27.5, -32.0, -37.0	ORP SC, DO, Ph, ORP ORP	Samples collected prior to full parameter stabilization due to reaching established maximum purge volume.
APS107	-40.6	ORP	Sample collected prior to full parameter stabilization due to reaching established maximum purge volume.
APS108	-32.1	ORP	Sample collected prior to full parameter stabilization due to reaching established maximum purge volume.
APS109	-14.1	SC, DO, Ph, ORP	Sample collected prior to full parameter stabilization due to reaching established maximum purge volume.



# Square D Investigation continued ....

CASCADE HIGH RESOLUTION SITE CHARACTERIZATION

## RESULTS AND RECOMMENDATIONS

This section provides a summary of the data collected during this investigation program, Cascade's recommendations for updating the conceptual site model, and suggestions for next steps in the site management process, including remediation, if appropriate.

### Data Summary

Index of Hydraulic Conductivity logs were generated across three transects around North Benton St. to the East of the site, identified here as West of N. Benton St., Southwest of N. Benton St., and East of N. Benton St.

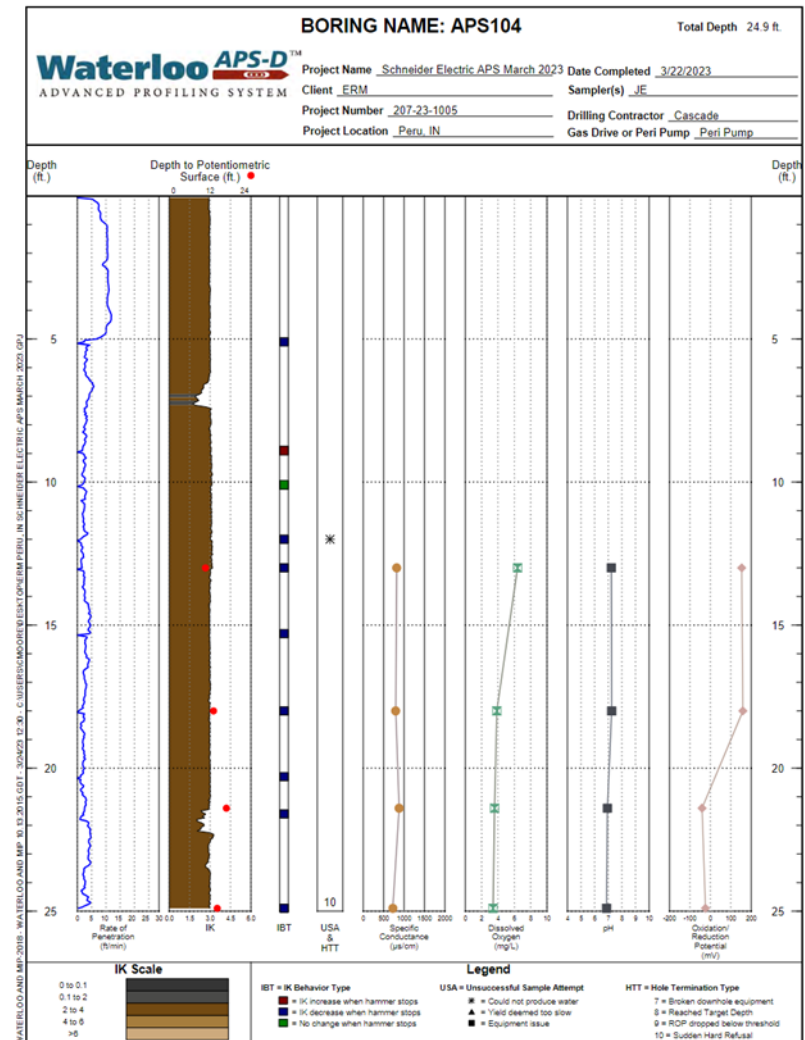
The West of N. Benton St. transect consists of profiles APS-105, APS-106, APS-107, and APS-108. APS-105, APS-106, APS-107 indicate a similar stratigraphy to one another with a zone of homogenous high Ik from ground surface to an average of 12' bgs where a sharp transition to an impermeable soil occurs. APS-105 and APS-106 transition back into a zone of higher Ik around 22' bgs for the remainder of the boring with some intermixing on APS-106. APS-107 exhibits consistently impermeable soils after 12' bgs, excluding a few intermixing lenses, one thin 1' zone at 16' bgs of higher Ik, and at refusal 40.6' bgs. APS-108 is a homogenous and consistent boring with meager variation throughout. All borings on this transect were advanced until either rate of penetration dropped below the acceptable threshold or encountered sudden hard refusal, with an average depth of 35.4' bgs, and included the collection of 20 total samples.

The Southwest of N. Benton St. transect contains profiles APS-103, APS-104, and APS-109. APS-103 has alternating zones of high Ik to intermixing to no flow throughout the profiles. The most considerable zone is identified as 13' of impermeable soil from 20' to 33' bgs. APS-104 and APS-109 are comprised of an overall homogenous high Ik unit. All borings on this transect were advanced until encountering sudden hard refusal, with an average depth of 26.7' bgs, and included the collection of 10 total samples.

Finally, the East of N. Benton St. transect includes the remaining four profiles, APS-101, APS-102, APS-110, and APS-111. The profiles on this transect consist largely of one homogenous unit with little variation. APS-101 is the exception with a 7' zone starting at 8' bgs of little to no flow, intermixing with lenses of moderate to low Ik. All borings on this transect were advanced until encountering sudden hard refusal, with an average depth of 23.6' bgs, and included the collection of 15 total samples.

This interpretation is limited by the absence of the laboratory analytical data associated with the samples collected during this program.

A full review of the physicochemical parameters data set was not conducted as part of this scope of work. To properly use these data, it is recommended that the results of the laboratory analyses are reviewed for anomalies and trends, and these physicochemical parameters are compared to those collected elsewhere at the site during previous investigations.



# Residential occupants in the vicinity of APS-4

