Department of Labor and Employment
Division of Oil and Public Safety
Remediation Section
633 17th Street, Suite 500
Denver, CO 80202-3660
303-318-8547 (technical assistance)
Website: www.colorado.gov/cdle/remediation

Select One Report from the list:

Monitoring and Remediation Report

Facility ID:	**11323**
Event ID:	**6488**
Reporting Period:	**Qtr 3**
Year:	**2013**
Submittal Date:	**January 15, 2014**
SSF or ISRA submitted:	
SCR submitted:	
CAP submitted:	**April 7, 1998**

Version 1.2
August 15, 2013

GSC
GEOLOGIC SERVICES & CONSULTANTS

January 2, 2014

Mr. Charles Ochs
Bold Petroleum, Inc.
P.O. Box 603
Colorado Springs, Colorado 80901

Re: 4th Quarter Monitoring & Remediation Report-Acorn Food Store, 305 South 8th Street, Colorado Springs, CO. Event 6488.

Dear Mr. Ochs,

SITE HISTORY

The Site has operated as a retail fuel station and convenience store since 1968. Adjacent properties include U.S. Highway 24 to the east and north, South 8th Street to the west, and a former hotel facility to the south. The vacant hotel property was recently purchased by the Colorado Department of Transportation (CDOT), who is currently in the process of demolishing the former hotel. Fountain Creek is located near the hotel's southern property boundary, approximately 400 feet south of The Site.

On January 1, 1968, three 6,000 gallon Underground Storage Tanks (USTs) were installed in the eastern portion of the property. These USTs have since been permanently closed and removed from the facility.

On April 7, 1998, three USTs were installed in the western portion of the property. These USTs are currently in operation and consist of the following:

- One 10,000 gallon regular unleaded tank.
- One 8,000 gallon premium unleaded tank.
- One 6,000 gallon diesel tank.

On January 8, 2002, a 6,000 gallon E-85 UST was installed in the former UST tank cavity.

SUBSURFACE GEOLOGY AND AQUIFER CHARACTERISTICS

The native subsurface soil is a Quaternary alluvial deposit consisting of sand and silt with trace clay from approximately 2 to 12 feet below the ground surface (bgs), and sand and gravel from 12 to 14 feet bgs. This deposit overlies the Cretaceous-age Pierre Shale Formation.

The local groundwater flow regime is characterized as a shallow unconfined aquifer with a relatively low hydraulic conductivity. The local groundwater flow direction is predominantly to the south southeast along a gradient of approximately 0.015 ft/ft. Regional groundwater flow is influenced by the Fountain Creek watershed.

January 2, 2014
Mr. Charles Ochs

RELEASE INFORMATION

A confirmed release at the site was reported to the Division of Oil and Public Safety (OPS) on April 7, 1998. This release (Event ID #6488) was discovered during a subsurface site investigation being conducted in conjunction with UST removal.

CORRECTIVE ACTION PLAN

Historical Remediation Approach

EDI Services, Inc. (1998-2008)

Source removal activities were conducted in 1998 following UST removal. From March 13, 1998 through April 4, 1998, approximately 4,000 cubic yards of contaminated soil were removed and disposed at a local landfill. A pump & treat system operated from August 15, 2000 through August 15, 2002, treating a total of 8,105,423 gallons of groundwater. Please reference Figures 1a-1d for information regarding remediation activities conducted from 1998-2008.

Geologic Services & Consultants, Inc. (2008-Present)

Twelve enhanced fluid recovery (EFR) events were conducted between November 17, 2008 and April 9, 2009. The purpose of these events was to extract contaminated groundwater, as well as to evaluate the effects of vapor phase extraction. On December 9, 2009, a CAP modification was approved for Air Sparge/Soil Vapor Extraction (AS/SVE) pilot testing, contaminant plume definition, and continued groundwater monitoring. Pilot testing was conducted on April 1, 2010, and supported the use of AS/SVE as an effective remedial method.

On July 1, 2010, a CAP modification was approved for installing and operating a permanent AS/SVE system. System installation began on August 3, 2010 and was completed by September 24, 2010. Installation activities included drilling and completing twelve AS and five SVE points. The AS wells were advanced to approximately 15 feet below the ground surface (bgs), or roughly 5 feet below the static groundwater elevation. SVE wells were advanced to approximately 8 feet bgs, or roughly 2 feet above the static groundwater level.

The system began operating on October 25, 2010, and was shut down on March 28, 2012. From start-up to shut down, the AS and SVE systems operated a total of 11,066 hours and 11,524 hours respectively, removing approximately 2,341 lbs of volatile organic compounds (VOCs).

The AS/SVE system was restarted on September 4, 2012. From system restart through the site visit on September 3, 2013, the AS/SVE system has operated for 8,371 hours and removed approximately 44 lbs of VOCs. The system was shut down during this visit to begin a systematic pulse cycle. On October 9, 2013, the AS system was restarted with one leg (AS Line #4) operating near MW15. Since that date, AS lines #2, #3, and #4 have been pulsed to operate independently for approximately 1-2 weeks at a time. Please reference Figures 4A & 4B for more details regarding the AS/SVE system.

CAP status

Groundwater data indicates that the AS/SVE system will likely reduce contaminant concentrations in on-site wells and wells near the down-gradient property boundary. However, additional remedial action is necessary to eliminate BTEX contamination remaining on the adjacent property, which is located beyond the influence of the AS/SVE system. The following remedial methods were included in a CAP modification approved on May 23, 2013:

- Complete up to two COGAC injection events consisting of up to 75 points in the former hotel courtyard area. A total of 11,250 lbs of COGAC may be placed.
- Prior to the first injection event, install three temporary monitoring wells to better define the off-site contaminant plume.
- Operation and maintenance of the AS/SVE system, focused on wells MW13 and MW15, from September 2012 through June 2014.

COGAC Injection Event

From November 5 through November 11, 2013, GSC performed the first COGAC injection event. During this event, 52 injection points were completed in the courtyard of the vacant hotel, near monitoring wells MW14, MW18, and MW19. It should be noted that no injection points were completed within 5 feet of a monitoring well. Please reference Figure 7 for COGAC injection point locations.

The COGAC slurry was injected into the subsurface using direct push rod and a rotary diaphragm pump. Most points received approximately 25 gallons of water and 25 lbs of COGAC at 9', 11', and 13' bgs (75 lbs/point). The silt and sand matrix of the receiving formation appears to be ideal for injection, as relatively low injection pressures and high flow rates were experienced. The average injection pressure was 5.66 psi, and the average flow rate was 8.87 gallons/minute. Surfacing of the injection material was encountered on a few points, but was controlled by making slight adjustments to the vertical placement of the injection assembly. A total of 4,000 lbs of COGAC was injected during the event. Please reference the attached Injection Log for more details.

Radius of influence (ROI) was verified during the injection process by monitoring dissolved oxygen concentration, pressure, and sample appearance in target monitoring wells. Injection influence was evident in MW14, MW18, and MW19. Please reference the following tables for ROI information.

Injection Point #	Injected Volume / Gal	Points Where Influence Was Observed	Separation between IP and ROI marker / ft
IP1	75	MW18	7.0
IP8	75	MW18	8.0
IP16	100	MW14	11
IP17	75	MW14	10
IP20	100	MW14	10
IP34	75	MW19	6.0
IP44	100	MW19	13

Table 1: Injection influence observed at surrounding MW's and IP's

Well ID	Dissolved Oxygen Concentration (mg/L)			Chemical Oxygen Demand (mg/L)	
	Pre-Injection (9/3/13)	During Injection (11/5-11/11/13)	Post-Injection (12/2/13)	Pre-Injection (1/31-3/4/13)	Post-Injection (12/2/13)
MW14	0.00	2.30	1.21	148	38
MW18	0.00	9.25	1.78	38	34
MW19	0.00	1.75	1.24	100	25

Table 2: DO & COD in pre and post injection samples

Field observations and analytical data indicate that this was a successful COGAC injection. Elevated dissolved oxygen concentrations and a decreased chemical oxygen demand were observed in all targeted monitoring wells. Furthermore, post-injection analytical data indicates that contaminant concentrations were not detected in any wells influenced by COGAC.

GROUNDWATER SAMPLING PROCEDURE

Representatives of GSC visited the on December 2, 2013. During this visit groundwater quality was assessed by monitoring wells MW7, MW10, MW12-MW15, MW18, and MW19. (see attached figures for well locations).Groundwater samples were collected in accordance with procedures outlined in the Colorado Division of Oil and Public Safety's *Petroleum Storage Tank Owner Operator Guidance Document.*

Groundwater samples were delivered under chain-of-custody to Environmental Chemistry Services, 2 Oakwood Park Plaza, Suite 100, Castle Rock, Colorado 80104. Each groundwater sample was analyzed for BTEX using EPA method 8260B. Groundwater analytical data is summarized in Table 1 and Figure 2.

GEOLOGIC SERVICES & CONSULTANTS

January 2, 2014
Mr. Charles Ochs

GROUNDWATER MONITORING RESULTS

- Groundwater is flowing in a southeasterly direction, which is consistent with the historical flow direction.
- Laboratory results indicate that BTEX constituent concentrations are below Maximum Contaminant Levels (MCLs) in groundwater samples collected from MW7, MW10, MW14, MW15, MW18, and MW19.
- Benzene concentrations are above MCLs in samples collected from MW12 and MW13.

Please reference the attached tables, figures, and laboratory reports for further details. If you have any questions please do not hesitate to contact us.

Sincerely,
Geologic Services & Consultants, Inc.

Clint Wagner, P.G.
Project Manager

cc: Amber Billing, CDOT (amber.billings@state.co.us)
Andy Flurkey, CDOT (andy.flurkey@state.co.us)
Tom Fox, OPS

Site Information

Event ID: 6488 **Reporting Period: Qtr 3** **Year: 2013**

SITE INFORMATION					
Site Name:	Acorn 8th Street Food Stre	Business on Site:	Retail Fuel Station		
Site Address:	305 S. 8th Street				
City:	Colorado Springs	County:	El Paso	Zip Code:	80905
Latitude:	38° 49' 46"	Longitude:	-104° 49' 39"		
PROPERTY OWNER INFORMATION					
Name:	Bold Petroleum, Inc				
Address:	P.O. Box 603				
City:	Colorado Springs	State:	Colorado	Zip Code:	80901
Phone Number:	719-635-3551	Fax Number:	719-634-8811		
Contact Person:		Email:			
RESPONSIBLE PARTY INFORMATION					
Name:	Bold Petroleum, Inc				
Address:	P.O. Box 603				
City:	Colorado Springs	State:	Colorado	Zip Code:	80901
Phone Number:	719-635-3551	Fax Number:	719-634-8811		
Contact Person:		Email:			
ENVIRONMENTAL CONSULTANT INFORMATION					
Name:	Geologic Services & Consultants Inc.				
Address:	2185 Exectutive Circle				
City:	Colorado Springs	State:	Colorado	Zip Code:	80906
Phone Number:	719-579-8066	Fax Number:	719-579-8028		
Contact Person:	Clint Wagner	Email:	clintw@geologicservice.com		

RELEASE INFORMATION			
Date Release was Suspected		Date OPS was notified of suspected release	
Date Release was Confirmed	4/7/1998	Date OPS was notified of confirmed release	4/7/1998
Product Released:	RUL	How was Release Discovered:	Site Assessment
Source of Release:	Tank	Quantity in Gallons:	
Cause of Release:			
Provide Brief Description of System Repair:			

PREVIOUS RELEASE INFORMATION

Date of Prior Release	Event ID	Product	Quantity (Gallons)	Source of Release	Date NFA Letter Issued

TANK INFORMATION	RESPONSE
Is the facility open and actively dispensing fuel?	Yes
If the facility no longer dispenses fuel what is the current use of the property?	
Number of tanks in use (locate tanks, piping, and dispensers on site map)	4
Number of tanks in temporary closure (locate tanks, piping, and dispensers on site map)	
Number of tanks removed (locate tanks, piping, and dispensers on site map)	3
Tanks closed in place (locate tanks, piping, and dispensers on site map)	
Date(s) of tank closure	3/13/1998

SITE LITHOLOGY AND AQUIFER PARAMETERS	RESPONSE
Predominant lithology in the unsaturated zone	Sandy Silt
Predominant lithology in the saturated zone	Silty Clay
Date of hydraulic conductivity test. Include and label test data in 'Other Documents' tab.	12/10/2007
Hydraulic conductivity of the impacted aquifer in cm/sec (estimated)	7.18E-05
Estimated effective porosity in the saturated zone (%)	20%
Hydraulic gradient	0.0212
Estimated groundwater flow velocity in ft/day (1 cm/sec = approximately 2,835 ft/day)	0.02
General flow direction during this reporting period	SSE
Historically predominant flow direction	SSE

OTHER POTENTIAL SOURCES	RESPONSE
Are there offsite sources that may account for the contamination found? If yes, detail in the narrative.	No

Exposure Pathways and Receptors

Event ID: 6488 | Reporting Period: Qtr 3 | Year: 2013

POINTS OF EXPOSURE	THREATENED	IMPACTED	DISTANCE FROM SOURCE (ft)
Property Boundary	yes	yes	40 feet
Surficial Soils	no	no	150 feet
Subsurface Utilities	yes	unknown	90 feet
Structures	yes	no	
Groundwater Wells	no	no	
Surface Water	yes	no	500 feet
Sensitive Environments			

UTILITY	DEPTH TO WATER	DEPTH TO UTILITY	THREATENED	IMPACTED	IDENTIFIED ON POE MAP?
Gas Line	10 feet		no	no	no
Water Line	10 feet		yes	no	yes
Sanitary Sewer Line	10 feet		no	no	no
Storm Sewer Line	10 feet	3 feet	yes	unknown	yes
Communication Line	10 feet		no	no	yes
Other					

Impacted and Potentially Impacted Offsite Properties

Property Address	Property Use	Exposure Pathway	Status	Report Sent to Property Owner?
725 W. Cimarron St.	Vacant Hotel	groundwater ingestion	impacted	yes

EXPOSURE PATHWAYS	ELIMINATED?	REASON
Groundwater (Ingestion)	no	Groundwater contamination above MCLs is off-site
Groundwater (Enclosed Space Vapors)	yes	No occupied structures exist within extent of contamination
Surficial Soil (Ingestion, Ambient Vapors, Particulates, Dermal Contact)	yes	Surficial soil not impacted by release
Subsurface Soil (Enclosed Space Vapors)	yes	No occupied structures exist within extent of contamination
Subsurface Soil (Leaching to Groundwater)	no	Soil contamination above Tier 1 RBSLs exists on-site

All exposure pathways must be eliminated to request an NFA determination

Site Classification

Site Classification	2.7	MTBE Classification	Priority Classification 3

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Water Well and Surface Water Data Table

Event ID: 6488 **Reporting Period: Qtr 3** **Year: 2013**

Permit Number or Surface Water Designation*	Geographic Location (Lat/Long or T/R/S)	Approx. Direction From Site	Approx Distance From Site (ft)	Listed Uses	Well Depth	Water Level	Top of Screen	Pumping Rate	Potential Point of Exposure?	Rationale for Elimination
Fountain Creek	14S,67W,SEC13	S	439	NA	NA			NA	Yes	
23489	14S,67W,SEC13	SSW	1780	8	50			3	No	
382	14S,67W,SEC13	W	2123	8	40			10	No	
208400	14S,67W,SEC13	SSE	2224	8,9	35			NA	No	
18720	14S,67W,SEC13	SE	2441	8	33			8	No	
44961	14S,67W,SEC13	NNE	2511	8	NA			NA	No	

Information from the Colorado Division of Water Resources. AT A MINIMUM, input an identifier and the distance from the site.
Indicate any wells or surface water features that are downgradient of the site in **bold** typeface.

Colorado Division of Water Resources Listed Uses

0 STORAGE	A AUGMENTATION
1 IRRIGATION	B EXPORT FROM BASIN
2 MUNICIPAL	C CUMULATIVE ACCRETION TO RIVER
3 COMMERCIAL	D CUMULATIVE DEPLETION FROM RIVER
4 INDUSTRIAL	E EVAPORATIVE
5 RECREATION	F FEDERAL RESERVED
6 FISHERY	G GEOTHERMAL
7 FIRE	H HOUSEHOLD USE ONLY
8 DOMESTIC	K SNOW MAKING
9 STOCK	M MINIMUM STREAMFLOW
	N NET EFFECT ON RIVER
	P POWER GENERATION
	Q OTHER
	R RECHARGE
	S EXPORT FROM STATE
	T TRANSMOUNTAIN EXPORT
	W WILDLIFE
	X ALL BENEFICIAL USES

Groundwater Laboratory and Elevations Table

Event ID: 6488 Reporting Period: Qtr 3 Year: 2013

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Well ID	Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	MTBE (mg/L)	TVPH (mg/L)	TEPH (mg/L)	TOC (ft)	TOS (ft)	BOS (ft)	Well Diameter (in)	Water Table Elevation, Corrected for Product Thickness (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	GW Above TOS	GW Column above BOS (ft)	Well Status (if not sampled)
0	06/18/08	0.0010	0.0010	0.0023	0.0020	0.0010	0.6800		99.51	94.51	84.51	2.0	90.40	9.11		0	no	5.89	
MW01	09/15/08	0.0010	0.0010	0.0010	0.0020	0.0010			99.51	94.51	84.51	2.0	90.96	8.55		0	no	6.45	
MW01	12/04/08	0.0010	0.0010	0.0010	0.0020	0.0010	0.1500		99.51	94.51	84.51	2.0	90.69	8.82		0	no	6.18	
MW01	03/12/09	0.0010	0.0010	0.0010	0.0020	0.0010			99.51	94.51	84.51	2.0	90.70	8.81		0	no	6.19	
MW01	06/08/09	0.0010	0.0010	0.0016	0.0020	0.0010	0.5300		99.51	94.51	84.51	2.0	90.95	8.56		0	no	6.44	
MW01	09/14/09	0.0010	0.0010	0.0170	0.0020	0.0010			99.51	94.51	84.51	2.0	91.57	7.94		0	no	7.06	
MW01	12/21/09	0.0014	0.0010	0.1200	0.0030	0.0010			99.51	94.51	84.51	2.0	91.46	8.05		0	no	6.95	
MW01	03/30/10	0.0010	0.0010	0.0270	0.0020	0.0010			99.51	94.51	84.51	2.0	91.39	8.12		0	no	6.88	
MW01	06/29/10	0.0010	0.0010	0.0091	0.0020	0.0010			99.51	94.51	84.51	2.0	91.25	8.26		0	no	6.74	
MW01	09/30/10	0.0010	0.0010	0.0024	0.0020	0.0010			99.51	94.51	84.51	2.0	91.17	8.34		0	no	6.66	
MW01	12/15/10	**0.0280**	0.0010	0.0110	0.0410	**0.0210**			99.51	94.51	84.51	2.0	91.44	8.07		0	no	6.93	
MW01	03/21/11	0.0010	0.0010	0.0092	0.0010	0.0010			99.51	94.51	84.51	2.0	91.12	8.39		0	no	6.61	
MW01	06/07/11	0.0010	0.0010	0.0010	0.0010	0.0010			99.51	94.51	84.51	2.0	91.02	8.49		0	no	6.51	
MW01	09/27/11	0.0010	0.0010	0.0010	0.0010	0.0010			99.51	94.51	84.51	2.0	91.63	7.88		0	no	7.12	
MW01	12/19/11	0.0010	0.0010	0.0190	0.0010	0.0010			99.51	94.51	84.51	2.0	91.94	7.57		0	no	7.43	
MW01	03/28/12	0.0010	0.0010	0.0010	0.0010	0.0010			99.51	94.51	84.51	2.0	91.78	7.73		0	no	7.27	
MW01	06/27/12	0.0010	0.0010	0.0010	0.0010	0.0010			99.51	94.51	84.51	2.0	91.64	7.87		0	no	7.13	
MW01	09/17/12	0.0010	0.0010	0.0480	0.0010				99.51	94.51	84.51	2.0	91.99	7.52		0	no	7.48	
MW01	12/13/12								99.51	94.51	84.51	2.0	91.98	7.53		0	no	7.47	NOP
MW01	03/04/13								99.51	94.51	84.51	2.0	91.57	7.94		0	no	7.06	NOP
MW01	06/03/13								99.51	94.51	84.51	2.0	91.60	7.91		0	no	7.09	NOP
MW03	06/18/08	**0.3400**	0.1300	0.3800	0.7500	**1.9000**	24.0000		98.99	93.99	83.99	2.0	86.46	12.53		0	no	2.47	
MW03	09/15/08	**1.4000**	0.4300	**1.6000**	**3.8000**	**25.0000**			98.99	93.99	83.99	2.0	87.21	11.78		0	no	3.22	
MW03	12/04/08	**0.3600**	0.1400	0.6900	1.0000	**4.7000**	55.0000		98.99	93.99	83.99	2.0	86.77	12.22		0	no	2.78	
MW03	03/12/09	**0.0300**	0.0100	0.0100	0.0200	**0.3900**			98.99	93.99	83.99	2.0	86.71	12.28		0	no	2.72	
MW03	06/08/09	**0.1700**	0.0053	0.2800	0.1400	**1.8000**	13.0000		98.99	93.99	83.99	2.0	87.39	11.60		0	no	3.40	
MW03	09/14/09	0.0020	0.0020	0.0050	0.0040	0.0020			98.99	93.99	83.99	2.0				0	na	0.00	
MW03	12/21/09	**0.2300**	0.0072	0.3900	0.6000	**2.5000**			98.99	93.99	83.99	2.0	87.30	11.69		0	no	3.31	
MW03	03/30/10	0.1300	0.0050	0.1500	0.1300	0.8900			98.99	93.99	83.99	2.0	87.08	11.91		0	no	3.09	
MW03	04/01/10	0.1400	0.0093	0.1800	0.1700				98.99	93.99	83.99	2.0				0	na	0.00	
MW03	06/29/10	0.1400	0.0100	0.1900	0.1600	**1.2000**			98.99	93.99	83.99	2.0	87.12	11.87		0	no	3.13	
MW03	09/30/10	0.9100	0.0250	**1.4000**	**1.8000**	**8.3000**			98.99	93.99	83.99	2.0	87.33	11.66		0	no	3.34	
MW03	12/15/10	**0.0150**	0.0010	0.0410	0.0080	**0.1800**			98.99	93.99	83.99	2.0	87.97	11.02		0	no	3.98	
MW03	03/21/11	0.0036	0.0010	0.0174	0.0010	0.1670			98.99	93.99	83.99	2.0	87.53	11.46		0	no	3.54	
MW03	06/07/11	0.0010	0.0010	0.0010	0.0010	**0.0760**			98.99	93.99	83.99	2.0	87.54	11.45		0	no	3.55	
MW03	09/27/11	0.0010	0.0010	0.0010	0.0010	0.0360			98.99	93.99	83.99	2.0	88.05	10.94		0	no	4.06	
MW03	12/19/11	0.0010	0.0010	0.0010	0.0010	0.0470			98.99	93.99	83.99	2.0	88.60	10.39		0	no	4.61	
MW03	03/28/12	0.0010	0.0010	0.0010	0.0010	0.0077			98.99	93.99	83.99	2.0	88.42	10.57		0	no	4.43	
MW03	06/27/12	0.0010	0.0010	0.0010	0.0010	0.0056			98.99	93.99	83.99	2.0	88.23	10.76		0	no	4.24	
MW03	09/17/12	0.0010	0.0010	0.0010	0.0010				98.99	93.99	83.99	2.0	88.63	10.36		0	no	4.64	
MW03	12/13/12								98.99	93.99	83.99	2.0	88.68	10.31		0	no	4.69	NOP
MW03	03/04/13								98.99	93.99	83.99	2.0	88.46	10.53		0	no	4.47	NOP
MW03	06/03/13								98.99	93.99	83.99	2.0	88.04	10.95		0	no	4.05	NOP
MW05	06/18/08	0.0010	0.0010	0.0010	0.0020	0.0010	0.2500		98.73	93.73	83.73	2.0	91.32	7.41		0	no	7.59	

Groundwater Laboratory and Elevations Table

Event ID: 6488 Reporting Period: Qtr 3 Year: 2013

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Well ID	Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	MTBE (mg/L)	TVPH (mg/L)	TEPH (mg/L)	TOC (ft)	TOS (ft)	BOS (ft)	Well Diameter (in)	Water Table Elevation, Corrected for Product Thickness (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	GW Above TOS	GW Column above BOS (ft)	Well Status (if not sampled)
MW05	09/15/08								98.73	93.73	83.73	2.0				0	na	0.00	INA
MW05	12/04/08	0.0010	0.0010	0.0010	0.0020	0.0010	0.1000		98.73	93.73	83.73	2.0	90.98	7.75		0	no	7.25	
MW05	03/12/09	0.0010	0.0010	0.0010	0.0020	0.0010			98.73	93.73	83.73	2.0	91.01	7.72		0	no	7.28	
MW05	06/08/09	0.0010	0.0010	0.0010	0.0020	0.0010	0.1000		98.73	93.73	83.73	2.0	91.07	7.66		0	no	7.34	
MW05	09/14/09	0.0010	0.0010	0.0010	0.0020	0.0010			98.73	93.73	83.73	2.0	91.95	6.78		0	no	8.22	
MW05	12/21/09	0.0010	0.0010	0.0010	0.0020	0.0010			98.73	93.73	83.73	2.0	91.87	6.86		0	no	8.14	
MW05	03/30/10	0.0010	0.0010	0.0010	0.0020	0.0010			98.73	93.73	83.73	2.0	91.83	6.90		0	no	8.10	
MW05	03/21/11								98.73	93.73	83.73	2.0	91.41	7.32		0	no	7.68	NOP
MW05	09/27/11								98.73	93.73	83.73	2.0	91.88	6.85		0	no	8.15	NOP
MW05	09/17/12								98.73	93.73	83.73	2.0	92.14	6.59		0	no	8.41	NOP
MW05	12/13/12								98.73	93.73	83.73	2.0	92.14	6.59		0	no	8.41	NOP
MW05	03/04/13								98.73	93.73	83.73	2.0	91.82	6.91		0	no	8.09	NOP
MW05	06/03/13								98.73	93.73	83.73	2.0	91.85	6.88		0	no	8.12	NOP
MW06	06/18/08								93.19	88.19	78.19	2.0	78.89	14.30		0	no	0.70	DRY
MW06	09/15/08	0.0013	0.0010	0.0010	0.0020	0.0014			93.19	88.19	78.19	2.0	79.49	13.70		0	no	1.30	
MW06	12/04/08								93.19	88.19	78.19	2.0	79.17	14.02		0	no	0.98	DRY
MW06'	02/05/09	0.0010	0.0010	0.0010	0.0020	0.0010	0.1600		93.28	89.95	74.95	2.0	79.17	14.11		0	no	4.22	
MW06'	03/12/09	0.0010	0.0010	0.0010	0.0020	0.0010			93.28	89.95	74.95	2.0	79.17	14.11		0	no	4.22	
MW06'	06/08/09	0.0010	0.0010	0.0010	0.0020	0.0010	0.1000		93.28	89.95	74.95	2.0	79.65	13.63		0	no	4.70	
MW06'	09/14/09	0.0010	0.0010	0.0010	0.0020	0.0010			93.28	89.95	74.95	2.0	79.50	13.78		0	no	4.55	
MW06'	12/21/09	0.0010	0.0010	0.0010	0.0020	0.0010			93.28	89.95	74.95	2.0	79.46	13.82		0	no	4.51	
MW06'	03/30/10	0.0010	0.0010	0.0010	0.0020	0.0010			93.28	89.95	74.95	2.0	79.39	13.89		0	no	4.44	
MW06'	03/21/11								93.28	89.95	74.95	2.0	79.39	13.89		0	no	4.44	NOP
MW06'	09/27/11								93.28	89.95	74.95	2.0	79.35	13.93		0	no	4.40	NOP
MW06'	09/17/12								93.28	89.95	74.95	2.0	79.46	13.82		0	no	4.51	NOP
MW06'	12/13/12								93.28	89.95	74.95	2.0	79.48	13.80		0	no	4.53	NOP
MW06'	03/04/13								93.28	89.95	74.95	2.0	79.41	13.87		0	no	4.46	NOP
MW06'	06/03/13								93.28	89.95	74.95	2.0	79.23	14.05		0	no	4.28	NOP
MW06'	09/03/13								93.28	89.95	74.95	2.0	79.48	13.80		0	no	4.53	NOP
MW07	06/18/08	0.0020	0.0020	0.0020	0.0040	0.0020	0.2000		94.12	89.12	79.12	2.0	81.37	12.75		0	no	2.25	
MW07	09/15/08	0.0010	0.0010	0.0010	0.0020	0.0011			94.12	89.12	79.12	2.0	81.93	12.19		0	no	2.81	
MW07	12/04/08	0.0010	0.0010	0.0010	0.0020	0.0010	0.1000		94.12	89.12	79.12	2.0	81.68	12.44		0	no	2.56	
MW07	03/12/09	0.0010	0.0010	0.0010	0.0020	0.0010			94.12	89.12	79.12	2.0	81.60	12.52		0	no	2.48	
MW07	06/08/09	0.0010	0.0010	0.0010	0.0020	0.0010	0.1000		94.12	89.12	79.12	2.0	82.17	11.95		0	no	3.05	
MW07	09/14/09	0.0010	0.0010	0.0010	0.0020	0.0010			94.12	89.12	79.12	2.0	81.95	12.17		0	no	2.83	
MW07	12/21/09	0.0010	0.0010	0.0010	0.0020	0.0010			94.12	89.12	79.12	2.0	82.27	11.85		0	no	3.15	
MW07	03/30/10	0.0010	0.0010	0.0010	0.0020	0.0010			94.12	89.12	79.12	2.0	81.89	12.23		0	no	2.77	
MW07	06/29/10	0.0010	0.0010	0.0010	0.0020	0.0010			94.12	89.12	79.12	2.0	81.86	12.26		0	no	2.74	
MW07	09/30/10	0.0010	0.0010	0.0010	0.0020	0.0010			94.12	89.12	79.12	2.0	81.88	12.24		0	no	2.76	
MW07	12/15/10	0.0010	0.0010	0.0010	0.0020	0.0010			94.12	89.12	79.12	2.0	82.35	11.77		0	no	3.23	
MW07	03/21/11	0.0010	0.0010	0.0010	0.0010	0.0010			94.12	89.12	79.12	2.0	82.10	12.02		0	no	2.98	
MW07	06/07/11	0.0010	0.0010	0.0010	0.0010	0.0010			94.12	89.12	79.12	2.0	81.91	12.21		0	no	2.79	
MW07	09/27/11	0.0010	0.0010	0.0010	0.0010	0.0010			94.12	89.12	79.12	2.0	82.11	12.01		0	no	2.99	
MW07	12/19/11	0.0010	0.0010	0.0010	0.0010	0.0010			94.12	89.12	79.12	2.0	82.45	11.67		0	no	3.33	

Groundwater Laboratory and Elevations Table

Event ID: 6488 Reporting Period: Qtr 3 Year: 2013

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Well ID	Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	MTBE (mg/L)	TVPH (mg/L)	TEPH (mg/L)	TOC (ft)	TOS (ft)	BOS (ft)	Well Diameter (in)	Water Table Elevation, Corrected for Product Thickness (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	GW Above TOS	GW Column above BOS (ft)	Well Status (if not sampled)
MW07	03/28/12	0.0010	0.0010	0.0010	0.0010	0.0010			94.12	89.12	79.12	2.0	82.33	11.79		0	no	3.21	
MW07	06/27/12	0.0010	0.0010	0.0010	0.0010	0.0010			94.12	89.12	79.12	2.0	82.07	12.05		0	no	2.95	
MW07	09/17/12	0.0010	0.0010	0.0010	0.0010				94.12	89.12	79.12	2.0	82.49	11.63		0	no	3.37	
MW07	12/13/12	0.0010	0.0010	0.0010	0.0010				94.12	89.12	79.12	2.0	82.62	11.50		0	no	3.50	
MW07	03/04/13	0.0010	0.0010	0.0010	0.0010				94.12	89.12	79.12	2.0	82.54	11.58		0	no	3.42	
MW07	06/03/13	0.0010	0.0010	0.0010	0.0010				94.12	89.12	79.12	2.0	82.29	11.83		0	no	3.17	
MW07	09/03/13	0.0010	0.0010	0.0010	0.0010				94.12	89.12	79.12	2.0	82.46	11.66		0	no	3.34	
MW07	12/02/13	0.0010	0.0010	0.0010	0.0010				94.12	89.12	79.12	2.0	82.65	11.47		0	no	3.53	
MW08	06/18/08	0.0010	0.0010	0.0010	0.0020	0.0010	0.1600		95.32	90.32	80.32	2.0	84.91	10.41		0	no	4.59	
MW08	09/15/08	0.0010	0.0010	0.0010	0.0020	0.0010			95.32	90.32	80.32	2.0	85.59	9.73		0	no	5.27	
MW08	12/04/08	0.0010	0.0010	0.0010	0.0020	0.0010	0.1000		95.32	90.32	80.32	2.0	85.20	10.12		0	no	4.88	
MW08	03/12/09	0.0010	0.0010	0.0010	0.0020	0.0010			95.32	90.32	80.32	2.0	85.11	10.21		0	no	4.79	
MW08	06/08/09								95.32	90.32	80.32	2.0	85.84	9.48		0	no	5.52	
MW08	09/14/09								95.32	90.32	80.32	2.0				0	na	0.00	INA
MW08	12/21/09	0.0010	0.0010	0.0010	0.0020	0.0010			95.32	90.32	80.32	2.0	85.64	9.68		0	no	5.32	
MW08	03/30/10	0.0010	0.0010	0.0010	0.0020	0.0010			95.32	90.32	80.32	2.0	85.43	9.89		0	no	5.11	
MW08	06/29/10	0.0010	0.0010	0.0010	0.0020	0.0010			95.32	90.32	80.32	2.0	85.45	9.87		0	no	5.13	
MW08	09/30/10	0.0010	0.0010	0.0010	0.0020	0.0010			95.32	90.32	80.32	2.0	85.71	9.61		0	no	5.39	
MW08	12/15/10	0.0010	0.0010	0.0010	0.0020	0.0010			95.32	90.32	80.32	2.0	86.35	8.97		0	no	6.03	
MW08	03/21/11	0.0010	0.0010	0.0010	0.0010	0.0010			95.32	90.32	80.32	2.0	86.03	9.29		0	no	5.71	
MW08	06/07/11	0.0010	0.0010	0.0010	0.0010	0.0010			95.32	90.32	80.32	2.0	85.80	9.52		0	no	5.48	
MW08	09/27/11	0.0010	0.0010	0.0010	0.0010	0.0010			95.32	90.32	80.32	2.0	86.16	9.16		0	no	5.84	
MW08	12/19/11	0.0010	0.0010	0.0010	0.0010	0.0010			95.32	90.32	80.32	2.0	86.71	8.61		0	no	6.39	
MW08	03/28/12	0.0010	0.0010	0.0010	0.0010	0.0010			95.32	90.32	80.32	2.0	86.53	8.79		0	no	6.21	
MW08	06/27/12	0.0010	0.0010	0.0010	0.0010	0.0010			95.32	90.32	80.32	2.0	86.25	9.07		0	no	5.93	
MW08	09/17/12	0.0010	0.0010	0.0010	0.0010				95.32	90.32	80.32	2.0	86.78	8.54		0	no	6.46	
MW08	12/13/12								95.32	90.32	80.32	2.0	86.99	8.33		0	no	6.67	NOP
MW08	03/04/13								95.32	90.32	80.32	2.0	86.87	8.45		0	no	6.55	NOP
MW08	06/03/13								95.32	90.32	80.32	2.0	86.36	8.96		0	no	6.04	NOP
MW10	06/18/08	**0.1800**	0.0010	0.1700	0.0130	**0.3300**	9.3000		97.40	92.40	87.40	2.0	90.23	7.17		0	no	2.83	
MW10	09/15/08	**0.2500**	0.0010	0.1800	0.0280	**0.3500**			97.40	92.40	87.40	2.0	90.20	7.20		0	no	2.80	
MW10	12/04/08								97.40	92.40	87.40	2.0				0	na	0.00	DRY
MW10	03/12/09	**0.2400**	0.0100	0.0250	0.6200	**0.1400**			97.40	92.40	87.40	2.0	90.01	7.39		0	no	2.61	
MW10	06/08/09	**0.0120**	0.0010	0.0120	0.0110	0.0092	0.6500		97.40	92.40	87.40	2.0	89.52	7.88		0	no	2.12	
MW10	09/14/09	**0.0920**	0.0010	0.1100	0.0022	**0.0320**			97.40	92.40	87.40	2.0	90.52	6.88		0	no	3.12	
MW10	12/21/09	**0.0180**	0.0010	0.0250	0.0020	0.0150			97.40	92.40	87.40	2.0	90.49	6.91		0	no	3.09	
MW10	03/30/10	**0.0240**	0.0010	0.0220	0.0020	**0.0400**			97.40	92.40	87.40	2.0	90.61	6.79		0	no	3.21	
MW10	04/01/10	0.0010	0.0010	0.0010	0.0020				97.40	92.40	87.40	2.0				0	na	0.00	
MW10	06/29/10	**0.0067**	0.0010	0.0059	0.0020	**0.0340**			97.40	92.40	87.40	2.0	90.41	6.99		0	no	3.01	
MW10	09/30/10	**0.0310**	0.0010	0.0490	0.0020	**0.0300**			97.40	92.40	87.40	2.0	90.24	7.16		0	no	2.84	
MW10	12/15/10	**0.0170**	0.0010	0.0150	0.0042	0.0150			97.40	92.40	87.40	2.0	90.68	6.72		0	no	3.28	
MW10	03/21/11	**0.0105**	0.0010	0.0266	0.0010	**0.0323**			97.40	92.40	87.40	2.0	90.42	6.98		0	no	3.02	
MW10	06/07/11	**0.0084**	0.0010	0.0190	0.0010	0.0160			97.40	92.40	87.40	2.0	90.36	7.04		0	no	2.96	
MW10	09/27/11	0.0010	0.0010	0.0010	0.0010	0.0082			97.40	92.40	87.40	2.0	90.59	6.81		0	no	3.19	

Groundwater Laboratory and Elevations Table

Event ID: 6488 Reporting Period: Qtr 3 Year: 2013

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Well ID	Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	MTBE (mg/L)	TVPH (mg/L)	TEPH (mg/L)	TOC (ft)	TOS (ft)	BOS (ft)	Well Diameter (in)	Water Table Elevation, Corrected for Product Thickness (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	GW Above TOS	GW Column above BOS (ft)	Well Status (if not sampled)
MW10	12/19/11	0.0010	0.0010	0.0010	0.0010	0.0079			97.40	92.40	87.40	2.0	90.76	6.64		0	no	3.36	
MW10	03/28/12	0.0010	0.0010	0.0010	0.0010	0.0052			97.40	92.40	87.40	2.0	90.85	6.55		0	no	3.45	
MW10	06/27/12	0.0010	0.0010	0.0010	0.0010	0.0067			97.40	92.40	87.40	2.0	90.72	6.68		0	no	3.32	
MW10	09/17/12	0.0010	0.0010	0.0010	0.0010				97.40	92.40	87.40	2.0	90.90	6.50		0	no	3.50	
MW10	12/13/12	0.0010	0.0010	0.0010	0.0010				97.40	92.40	87.40	2.0	90.89	6.51		0	no	3.49	
MW10	03/04/13	0.0010	0.0010	0.0010	0.0010				97.40	92.40	87.40	2.0	90.82	6.58		0	no	3.42	
MW10	06/03/13	0.0010	0.0010	0.0010	0.0010				97.40	92.40	87.40	2.0	90.87	6.53		0	no	3.47	
MW10	09/03/13	0.0010	0.0010	0.0010	0.0010				97.40	92.40	87.40	2.0	90.93	6.47		0	no	3.53	
MW10	12/02/13	0.0010	0.0010	0.0010	0.0010				97.40	92.40	87.40	2.0	91.85	5.55		0	no	4.45	
MW11	02/05/09	0.0010	0.0010	0.0010	0.0002	0.0010	0.2600		96.81	92.86	77.86	2.0	86.43	10.38		0	no	8.57	
MW11	03/12/09	0.0010	0.0010	0.0010	0.0020	0.0010			96.81	92.86	77.86	2.0	86.38	10.43		0	no	8.52	
MW11	06/08/09	0.0010	0.0010	0.0010	0.0020	0.0010	0.1000		96.81	92.86	77.86	2.0	87.03	9.78		0	no	9.17	
MW11	09/14/09								96.81	92.86	77.86	2.0				0	na	0.00	INA
MW11	12/21/09	0.0010	0.0010	0.0010	0.0020	0.0010			96.81	92.86	77.86	2.0	86.94	9.87		0	no	9.08	
MW11	03/30/10	0.0010	0.0010	0.0010	0.0020	0.0010			96.81	92.86	77.86	2.0	86.72	10.09		0	no	8.86	
MW11	06/29/10	0.0010	0.0010	0.0010	0.0020	0.0010			96.81	92.86	77.86	2.0	86.73	10.08		0	no	8.87	
MW11	09/30/10	0.0010	0.0010	0.0010	0.0020	0.0010			96.81	92.86	77.86	2.0	86.99	9.82		0	no	9.13	
MW11	12/15/10	0.0010	0.0010	0.0010	0.0020	0.0057			96.81	92.86	77.86	2.0	87.67	9.14		0	no	9.81	
MW11	03/21/11	0.0010	0.0010	0.0010	0.0010	0.0010			96.81	92.86	77.86	2.0	87.37	9.44		0	no	9.51	
MW11	06/07/11	0.0010	0.0010	0.0010	0.0010	0.0010			96.81	92.86	77.86	2.0	87.21	9.60		0	no	9.35	
MW11	09/27/11	0.0010	0.0010	0.0010	0.0010	0.0010			96.81	92.86	77.86	2.0	87.72	9.09		0	no	9.86	
MW11	12/19/11	0.0010	0.0010	0.0010	0.0010	0.0010			96.81	92.86	77.86	2.0	88.27	8.54		0	no	10.41	
MW11	03/28/12	0.0010	0.0010	0.0010	0.0010	0.0010			96.81	92.86	77.86	2.0	88.10	8.71		0	no	10.24	
MW11	06/27/12	0.0010	0.0010	0.0010	0.0010	0.0010			96.81	92.86	77.86	2.0	87.80	9.01		0	no	9.94	
MW11	09/17/12	0.0010	0.0010	0.0010	0.0010				96.81	92.86	77.86	2.0	88.24	8.57		0	no	10.38	
MW11	12/13/12								96.81	92.86	77.86	2.0	88.36	8.45		0	no	10.50	NOP
MW11	03/04/13								96.81	92.86	77.86	2.0	88.16	8.65		0	no	10.30	NOP
MW11	06/03/13								96.81	92.86	77.86	2.0	87.65	9.16		0	no	9.79	NOP
MW12	03/12/09	**0.0300**	0.0022	0.0140	0.0390	**0.2500**			97.04	92.79	77.79	2.0	86.49	10.55		0	no	8.70	
MW12	06/08/09	**0.4300**	0.0570	0.0660	0.1400	**0.4900**	8.2000		97.04	92.79	77.79	2.0	87.30	9.74		0	no	9.51	
MW12	09/14/09	**0.6800**	0.0910	0.1400	0.3800	**0.6700**			97.04	92.79	77.79	2.0	87.05	9.99		0	no	9.26	
MW12	12/21/09	**0.0560**	0.0026	0.0029	0.0045	**0.1700**			97.04	92.79	77.79	2.0	87.04	10.00		0	no	9.25	
MW12	03/30/10	**0.1200**	0.0044	0.0080	0.0330	**0.2100**			97.04	92.79	77.79	2.0	86.83	10.21		0	no	9.04	
MW12	04/01/10	**0.0850**	0.0054	0.0010	0.0210				97.04	92.79	77.79	2.0				0	na	0.00	
MW12	06/29/10	**0.3500**	0.0150	0.0140	0.0440	**0.4500**			97.04	92.79	77.79	2.0	86.87	10.17		0	no	9.08	
MW12	09/30/10	**0.1800**	0.0089	0.0270	0.1200	**0.2300**			97.04	92.79	77.79	2.0	87.09	9.95		0	no	9.30	
MW12	12/15/10	**0.6100**	0.1300	0.1400	0.4100	**0.6000**			97.04	92.79	77.79	2.0	87.77	9.27		0	no	9.98	
MW12	03/21/11	**0.0461**	0.0524	0.0194	0.1150	**0.1350**			97.04	92.79	77.79	2.0	87.41	9.63		0	no	9.62	
MW12	06/07/11	**0.0300**	0.0069	0.0010	0.0370	**0.2600**			97.04	92.79	77.79	2.0	87.30	9.74		0	no	9.51	
MW12	09/27/11	**0.0610**	0.0010	0.0010	0.0120	**0.3500**			97.04	92.79	77.79	2.0	87.83	9.21		0	no	10.04	
MW12	12/19/11	**0.0570**	0.0010	0.0010	0.0120	**0.3700**			97.04	92.79	77.79	2.0	88.35	8.69		0	no	10.56	
MW12	03/28/12	0.0010	0.0010	0.0010	0.0010	**0.0990**			97.04	92.79	77.79	2.0	88.21	8.83		0	no	10.42	
MW12	06/27/12	**0.0470**	0.0010	0.0010	0.0010	**0.1300**			97.04	92.79	77.79	2.0	87.93	9.11		0	no	10.14	
MW12	09/17/12	0.0025	0.0010	0.0010	0.0010				97.04	92.79	77.79	2.0	88.34	8.70		0	no	10.55	

Groundwater Laboratory and Elevations Table

Event ID: 6488 **Reporting Period: Qtr 3** **Year: 2013**

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Well ID	Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	MTBE (mg/L)	TVPH (mg/L)	TEPH (mg/L)	TOC (ft)	TOS (ft)	BOS (ft)	Well Diameter (in)	Water Table Elevation, Corrected for Product Thickness (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	GW Above TOS	GW Column above BOS (ft)	Well Status (if not sampled)
MW12	12/13/12	0.0010	0.0010	0.0010	0.0010				97.04	92.79	77.79	2.0	88.43	8.61		0	no	10.64	
MW12	03/04/13	0.0044	0.0010	0.0010	0.0010				97.04	92.79	77.79	2.0	88.22	8.82		0	no	10.43	
MW12	06/03/13	**0.0460**	0.0010	0.0200	0.0010				97.04	92.79	77.79	2.0	87.76	9.28		0	no	9.97	
MW12	09/03/13	**0.0310**	0.0010	0.0046	0.0010				97.04	92.79	77.79	2.0	87.59	9.45		0	no	9.80	
MW12	12/02/13	**0.0300**	0.0010	0.0091	0.0010				97.04	92.79	77.79	2.0	88.41	8.63		0	no	10.62	
MW13	02/05/09	**0.1900**	0.1400	0.5600	**1.5000**	**0.2500**	77.0000		97.57	95.03	80.03	2.0	86.79	10.78		0	no	6.76	
MW13	03/12/09	**0.5800**	0.1500	0.4800	**1.4000**	**0.3100**			97.57	95.03	80.03	2.0	86.65	10.92		0	no	6.62	
MW13	06/08/09	**0.0480**	0.0024	0.0140	0.0260	**0.0460**	5.8000		97.57	95.03	80.03	2.0	88.44	9.13		0	no	8.41	
MW13	09/14/09	**0.0970**	0.0010	0.0420	0.0180	**0.0250**			97.57	95.03	80.03	2.0	87.17	10.40		0	no	7.14	
MW13	12/21/09	**0.0280**	0.0010	0.0094	0.0020	**0.0360**			97.57	95.03	80.03	2.0	87.26	10.31		0	no	7.23	
MW13	03/30/10	**0.0240**	0.0010	0.0041	0.0020	**0.0210**			97.57	95.03	80.03	2.0	87.04	10.53		0	no	7.01	
MW13	06/29/10	**0.0740**	0.0010	0.0110	0.0020	**0.0290**			97.57	95.03	80.03	2.0	87.05	10.52		0	no	7.02	
MW13	09/30/10	**0.0920**	0.0010	0.0110	0.0020	**0.1400**			97.57	95.03	80.03	2.0	87.23	10.34		0	no	7.20	
MW13	12/15/10	**0.6100**	0.0620	0.1900	0.2200	**0.2100**			97.57	95.03	80.03	2.0	87.87	9.70		0	no	7.84	
MW13	03/21/11	**0.1080**	0.0880	0.0891	0.6220	**0.4440**			97.57	95.03	80.03	2.0	87.54	10.03		0	no	7.51	
MW13	06/07/11	**0.1500**	0.0048	0.0210	0.1800	**0.5500**			97.57	95.03	80.03	2.0	87.46	10.11		0	no	7.43	
MW13	09/27/11	**0.0920**	0.0010	0.0010	0.0010	**0.1400**			97.57	95.03	80.03	2.0	87.98	9.59		0	no	7.95	
MW13	12/19/11	**0.5300**	0.0064	0.0840	0.0010	**0.0830**			97.57	95.03	80.03	2.0	88.52	9.05		0	no	8.49	
MW13	03/28/12	**0.6000**	0.0052	0.0010	0.0280	**0.0940**			97.57	95.03	80.03	2.0	88.37	9.20		0	no	8.34	
MW13	06/27/12	**0.1700**	0.0010	0.0010	0.0010	**0.0360**			97.57	95.03	80.03	2.0	88.16	9.41		0	no	8.13	
MW13	09/17/12	**0.1800**	0.0010	0.0010	0.0010				97.57	95.03	80.03	2.0	88.60	8.97		0	no	8.57	
MW13	12/13/12	**0.0150**	0.0010	0.0010	0.0010				97.57	95.03	80.03	2.0	88.60	8.97		0	no	8.57	
MW13	03/04/13	**0.0669**	0.0024	0.0109	0.0182				97.57	95.03	80.03	2.0	88.34	9.23		0	no	8.31	
MW13	06/03/13	**0.0570**	0.0047	0.0660	0.0170				97.57	95.03	80.03	2.0	87.99	9.58		0	no	7.96	
MW13	12/02/13	**0.0150**	0.0022	0.0870	0.0023				97.57	95.03	80.03	2.0	89.11	8.46		0	no	9.08	
MW14	03/30/10	**0.0110**	0.0022	0.0970	0.0280	0.0130			96.99	91.99	81.99	2.0	84.45	12.54		0	no	2.46	
MW14	06/29/10	**0.0120**	0.0010	0.0650	0.0031	**0.0210**			96.99	91.99	81.99	2.0	84.51	12.48		0	no	2.52	
MW14	09/30/10	**0.0130**	0.0010	0.0550	0.0023	0.0130			96.99	91.99	81.99	2.0	84.69	12.30		0	no	2.70	
MW14	12/15/10	**0.0380**	0.0019	0.1400	0.0047	0.0099			96.99	91.99	81.99	2.0	85.30	11.69		0	no	3.31	
MW14	03/21/11	**0.1230**	0.0040	0.0764	0.0010	0.0136			96.99	91.99	81.99	2.0	84.98	12.01		0	no	2.99	
MW14	06/07/11	**0.0750**	0.0010	0.0140	0.0010	0.0010			96.99	91.99	81.99	2.0	84.83	12.16		0	no	2.84	
MW14	09/27/11	**0.0950**	0.0055	0.0390	0.0010	0.0088			96.99	91.99	81.99	2.0	85.21	11.78		0	no	3.22	
MW14	12/19/11	**0.1700**	0.0010	0.0100	0.0010	**0.0200**			96.99	91.99	81.99	2.0	85.67	11.32		0	no	3.68	
MW14	03/28/12	**0.1400**	0.0010	0.0010	0.0010	0.0100			96.99	91.99	81.99	2.0	85.51	11.48		0	no	3.52	
MW14	06/27/12	**0.1500**	0.0010	0.0010	0.0010	0.0110			96.99	91.99	81.99	2.0	85.18	11.81		0	no	3.19	
MW14	09/17/12	**0.1900**	0.0040	0.0057	0.0010				96.99	91.99	81.99	2.0	85.72	11.27		0	no	3.73	
MW14	12/13/12	**0.2600**	0.0010	0.0010	0.0010				96.99	91.99	81.99	2.0	85.87	11.12		0	no	3.88	
MW14	03/04/13	**0.2120**	0.0020	0.0406	0.0020				96.99	91.99	81.99	2.0	85.71	11.28		0	no	3.72	
MW14	06/03/13	**0.1100**	0.0010	0.0160	0.0010				96.99	91.99	81.99	2.0	85.30	11.69		0	no	3.31	
MW14	09/03/13	**0.1100**	0.0010	0.0010	0.0010				96.99	91.99	81.99	2.0	85.31	11.68		0	no	3.32	
MW14	12/02/13	0.0010	0.0010	0.0010	0.0010				96.99	91.99	81.99	2.0	85.83	11.16		0	no	3.84	
MW15	03/30/10	**0.5500**	0.0990	**0.8300**	**3.2000**	**0.4700**			98.70	95.70	85.70	2.0	90.65	8.05		0	no	4.95	
MW15	06/29/10	**0.5200**	0.0260	0.4500	**1.7000**	**0.5800**			98.70	95.70	85.70	2.0	90.57	8.13		0	no	4.87	
MW15	09/30/10	**0.4600**	0.0200	0.4000	0.7100	**0.4000**			98.70	95.70	85.70	2.0	90.55	8.15		0	no	4.85	

Groundwater Laboratory and Elevations Table

Event ID: 6488 Reporting Period: Qtr 3 Year: 2013

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Well ID	Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	MTBE (mg/L)	TVPH (mg/L)	TEPH (mg/L)	TOC (ft)	TOS (ft)	BOS (ft)	Well Diameter (in)	Water Table Elevation, Corrected for Product Thickness (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	GW Above TOS	GW Column above BOS (ft)	Well Status (if not sampled)
MW15	12/15/10	**1.3000**	0.0400	**1.8000**	**1.5000**	**1.2000**			98.70	95.70	85.70	2.0	90.92	7.78		0	no	5.22	
MW15	03/21/11	**0.3380**	0.0057	0.5020	0.2720	**0.2870**			98.70	95.70	85.70	2.0	90.58	8.12		0	no	4.88	
MW15	06/07/11	**0.1200**	0.0010	0.0010	0.0310	**0.1100**			98.70	95.70	85.70	2.0	90.48	8.22		0	no	4.78	
MW15	09/27/11	**0.0940**	0.0010	0.0010	0.0660	**0.1000**			98.70	95.70	85.70	2.0	91.14	7.56		0	no	5.44	
MW15	12/19/11	**0.2700**	0.0010	0.1400	0.0330	**0.2500**			98.70	95.70	85.70	2.0	91.49	7.21		0	no	5.79	
MW15	03/28/12	**0.3100**	0.0010	0.0460	0.0670	**0.2400**			98.70	95.70	85.70	2.0	91.36	7.34		0	no	5.66	
MW15	06/27/12	**0.4800**	0.0057	0.1200	0.2200	**0.1700**			98.70	95.70	85.70	2.0	91.16	7.54		0	no	5.46	
MW15	09/17/12	**0.2300**	0.0036	0.2900	0.1700				98.70	95.70	85.70	2.0	91.53	7.17		0	no	5.83	
MW15	12/13/12	**0.3000**	0.0010	0.0350	0.0980				98.70	95.70	85.70	2.0	91.49	7.21		0	no	5.79	
MW15	03/04/13	0.0020	0.0010	0.0010	0.0010				98.70	95.70	85.70	2.0	91.10	7.60		0	no	5.40	
MW15	06/03/13	**0.0850**	0.0010	0.1300	0.0100				98.70	95.70	85.70	2.0	91.13	7.57		0	no	5.43	
MW15	09/03/13	**0.0290**	0.0010	0.0370	0.0010				98.70	95.70	85.70	2.0	91.21	7.49		0	no	5.51	
MW15	12/02/13	0.0031	0.0010	0.0014	0.0010				98.70	95.70	85.70	2.0	92.17	6.53		0	no	6.47	
MW16	03/30/10	0.0010	0.0010	0.0072	0.0020	0.0010			97.22	94.22	84.22	2.0	91.81	5.41		0	no	7.59	
MW16	06/29/10	0.0010	0.0010	0.0020	0.0020	0.0010			97.22	94.22	84.22	2.0	91.63	5.59		0	no	7.41	
MW16	09/30/10	0.0010	0.0010	0.0010	0.0020	0.0010			97.22	94.22	84.22	2.0	91.42	5.80		0	no	7.20	
MW16	12/15/10	0.0010	0.0010	0.0018	0.0020	0.0010			97.22	94.22	84.22	2.0	91.72	5.50		0	no	7.50	
MW16	03/21/11	**0.0137**	0.0038	0.0022	0.0170	**0.4920**			97.22	94.22	84.22	2.0	91.39	5.83		0	no	7.17	
MW16	06/07/11	0.0010	0.0010	0.0010	0.0010	**0.0560**			97.22	94.22	84.22	2.0	91.29	5.93		0	no	7.07	
MW16	09/27/11	0.0010	0.0010	0.0010	0.0010	0.0010			97.22	94.22	84.22	2.0	91.87	5.35		0	no	7.65	
MW16	12/19/11	0.0010	0.0010	0.0010	0.0010	0.0010			97.22	94.22	84.22	2.0	92.06	5.16		0	no	7.84	
MW16	03/28/12	0.0010	0.0010	0.0010	0.0010	0.0010			97.22	94.22	84.22	2.0	91.93	5.29		0	no	7.71	
MW16	06/27/12	0.0010	0.0010	0.0010	0.0010	0.0010			97.22	94.22	84.22	2.0	91.81	5.41		0	no	7.59	
MW16	09/17/12	0.0010	0.0010	0.0010	0.0010				97.22	94.22	84.22	2.0	92.13	5.09		0	no	7.91	
MW16	12/13/12	0.0010	0.0010	0.0010	0.0010				97.22	94.22	84.22	2.0	92.12	5.10		0	no	7.90	
MW16	03/04/13	0.0010	0.0010	0.0010	0.0010				97.22	94.22	84.22	2.0	91.81	5.41		0	no	7.59	
MW16	06/03/13	0.0010	0.0010	0.0010	0.0010				97.22	94.22	84.22	2.0	91.84	5.38		0	no	7.62	
MW16	09/03/13	0.0010	0.0010	0.0010	0.0010				97.22	94.22	84.22	2.0	89.11	8.11		0	no	4.89	
MW17	03/30/10	**0.0200**	0.0010	0.0550	0.0044	0.0012			96.95	93.95	83.95	2.0	86.67	10.28		0	no	2.72	
MW17	06/29/10	**0.0480**	0.0016	0.0730	0.0068	0.0010			96.95	93.95	83.95	2.0	86.69	10.26		0	no	2.74	
MW17	09/30/10	**0.0520**	0.0010	0.0320	0.0059	0.0018			96.95	93.95	83.95	2.0	87.06	9.89		0	no	3.11	
MW17	12/15/10	**0.0380**	0.0011	0.1300	0.0020	0.0110			96.95	93.95	83.95	2.0	87.61	9.34		0	no	3.66	
MW17	03/21/11	**0.0122**	0.0010	0.3600	0.0056	0.0040			96.95	93.95	83.95	2.0	87.26	9.69		0	no	3.31	
MW17	06/07/11	0.0010	0.0010	0.0870	0.0010	0.0010			96.95	93.95	83.95	2.0	87.16	9.79		0	no	3.21	
MW17	09/27/11	0.0010	0.0010	0.0010	0.0010	0.0010			96.95	93.95	83.95	2.0	87.63	9.32		0	no	3.68	
MW17	12/19/11	0.0010	0.0010	0.0010	0.0010	0.0010			96.95	93.95	83.95	2.0	88.14	8.81		0	no	4.19	
MW17	03/28/12	0.0010	0.0010	0.0010	0.0010	0.0010			96.95	93.65	83.95	2.0	88.01	8.94		0	no	4.06	
MW17	06/27/12	0.0010	0.0010	0.0010	0.0010	0.0010			96.95	93.65	83.95	2.0	87.72	9.23		0	no	3.77	
MW17	09/17/12	0.0010	0.0010	0.0010	0.0010				96.95	93.65	83.95	2.0	88.15	8.80		0	no	4.20	
MW17	12/13/12	0.0010	0.0010	0.0010	0.0010				96.95	93.65	83.95	2.0	88.25	8.70		0	no	4.30	
MW17	03/04/13								96.95	93.65	83.95	2.0	88.07	8.88		0	no	4.12	NOP
MW17	06/03/13	0.0010	0.0010	0.0010	0.0010				96.95	93.65	83.95	2.0	87.60	9.35		0	no	3.65	
MW17	09/03/13	0.0010	0.0010	0.0010	0.0010				96.95	93.65	83.95	2.0	87.39	9.56		0	no	3.44	
MW18	01/31/13	**0.0390**	0.0010	0.0010	0.0010				97.40	92.40	82.40	2.0	86.56	10.84		0	no	4.16	

Groundwater Laboratory and Elevations Table

Event ID: 6488 **Reporting Period: Qtr 3** **Year: 2013**

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Well ID	Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	MTBE (mg/L)	TVPH (mg/L)	TEPH (mg/L)	TOC (ft)	TOS (ft)	BOS (ft)	Well Diameter (in)	Water Table Elevation, Corrected for Product Thickness (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	GW Above TOS	GW Column above BOS (ft)	Well Status (if not sampled)
MW18	03/04/13	**0.0754**	0.0059	0.0035	0.0020				97.40	92.40	82.40	2.0	86.62	10.78		0	no	4.22	
MW18	06/03/13	**0.0520**	0.0045	0.0200	0.0010				97.40	92.40	82.40	2.0	86.23	11.17		0	no	3.83	
MW18	09/03/13	**0.0540**	0.0010	0.0010	0.0010				97.40	92.40	82.40	2.0	86.22	11.18		0	no	3.82	
MW18	12/02/13	0.0010	0.0010	0.0010	0.0010				97.40	92.40	82.40	2.0	86.79	10.61		0	no	4.39	
MW19	01/31/13	**0.0150**	0.0230	**2.2000**	0.6300				95.94	90.94	80.94	2.0	84.58	11.36		0	no	3.64	
MW19	03/04/13	**0.0211**	0.0107	0.2050	0.3400				95.94	90.94	80.94	2.0	84.53	11.41		0	no	3.59	
MW19	06/03/13	0.0010	0.0010	0.0010	0.0010				95.94	90.94	80.94	2.0	84.17	11.77		0	no	3.23	
MW19	09/03/13	**0.0052**	0.0010	0.2000	0.4300				95.94	90.94	80.94	2.0	84.31	11.63		0	no	3.37	
MW19	12/02/13	0.0010	0.0010	0.0010	0.0010				95.94	90.94	80.94	2.0	84.64	11.30		0	no	3.70	
MW20	01/31/13	0.0010	0.0010	0.0036	0.0081				94.82	89.82	84.82	2.0	85.41	9.41		0	no	0.59	
MW20	03/04/13	0.0010	0.0010	0.0010	0.0010				94.82	89.82	84.82	2.0	85.50	9.32		0	no	0.68	
MW20	06/03/13	0.0010	0.0010	0.0010	0.0010				94.82	89.82	84.82	2.0	85.09	9.73		0	no	0.27	
MW20	09/03/13	0.0010	0.0010	0.0010	0.0010				94.82	89.82	84.82	2.0	85.12	9.70		0	no	0.30	

If concentration is less than the stated laboratory detection limit, list the detection limit (not ND); e.g. 0.0005

TOC = Surveyed elevation top of casing
TOS = Elevation top of screen
BOS = Elevation bottom of screen
mg/L = milligrams per liter

DRY =Dry
DES =Destroyed
INA =Inaccessible (mention why in the narrative)
NOP =Not on Monitoring Plan
FP =Free Product Present

Secondary Groundwater Parameters Table

Event ID: 6488 **Reporting Period:** Qtr 3 **Year:** 2013

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Sample Location	Date	Dissolved Oxygen (mg/L)	Temp. (°C)	pH	Specific Conductance (µS/cm)	ORP (mV)	NO3- (mg/L)	Total Fe (mg/L)	Fe^{+2} (mg/L)	SO_4^{-2} (mg/L)	Alkalinity (mg/L)	COD (mg/L)	Other* (units)	Other* (units)
MW01	06/18/08	3.54	22.0	7.8		52.0								
MW01	09/15/08	1.26	21.6	8.1		-14.0								
MW01	12/04/08	2.88	7.6	7.0		112.0								
MW01	03/12/09	6.32	12.7	7.4		69.0								
MW01	06/08/09	5.58	15.8	8.4		24.0								
MW01	09/14/09	2.14	19.9	7.3		82.0								
MW01	12/21/09	3.08	12.6	6.9		Ur								
MW01	03/30/10	4.98	13.1	7.6		-39.0								
MW01	06/29/10	4.57	20.0	7.2		17.0								
MW01	09/30/10	4.54	20.4	7.4		-46.0								
MW01	12/15/10	3.48	14.2	6.7		45.0								
MW01	03/21/11	2.70	13.4	7.0		-42.0								
MW01	06/07/11	5.69	15.6	7.3		-40.0								
MW01	09/27/11	3.45	29.1	7.1		-102.0								
MW01	12/19/11	1.58	10.7	6.9		-21.0								
MW01	03/28/12	3.82	16.8	7.2	1741.0	-96.2								
MW01	06/27/12	3.58	19.9	6.8		-68.0								
MW01	09/17/12	1.49	21.0	6.9	1377.0	-159.1								
MW03	06/18/08	3.82	21.7	7.0		54.0								
MW03	09/15/08	1.11	20.9	8.0		28.0								
MW03	12/04/08	2.40	8.9	7.0		118.0								
MW03	03/12/09	1.40	13.0	8.0		51.0								
MW03	06/08/09	2.81	16.3	7.8		23.0								
MW03	09/14/09	2.47	19.8	7.3		65.0								
MW03	12/21/09	1.51	15.4	7.5		-36.0								
MW03	03/30/10	0.77	14.2	7.6		-70.0								
MW03	06/29/10	0.40	18.1	7.2		-41.0								
MW03	09/30/10	0.83	19.9	7.4		-32.0								
MW03	12/15/10	0.29	17.7	6.8		4.0								

Secondary Groundwater Parameters Table

Event ID: 6488 **Reporting Period:** Qtr 3 **Year:** 2013

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Sample Location	Date	Dissolved Oxygen (mg/L)	Temp. (°C)	pH	Specific Conductance (µS/cm)	ORP (mV)	NO3- (mg/L)	Total Fe (mg/L)	Fe^{+2} (mg/L)	SO_4^{-2} (mg/L)	Alkalinity (mg/L)	COD (mg/L)	Other* (units)	Other* (units)
MW03	03/21/11	0.60	14.1	7.2		6.0								
MW03	06/07/11	1.39	20.0	7.6		-37.0								
MW03	09/27/11	1.79	22.5	7.3		-24.0								
MW03	12/19/11	1.29	14.6	7.6		-44.0								
MW03	03/28/12	1.16	15.6	7.5	2061.0	-89.9								
MW03	06/27/12	1.15	19.3	7.5		-74.0								
MW03	09/17/12	0.30	19.5	7.2	1460.0	-119.1								
MW05	06/18/08	5.10	21.3	7.2		77.0								
MW05	12/04/08	3.53	6.4	7.0		110.0								
MW05	03/12/09	5.70	15.6	7.9		79.0								
MW05	06/08/09	4.80	15.2	7.8		11.0								
MW05	09/14/09	2.11	20.1	7.2		96.0								
MW05	12/21/09	6.44	11.8	7.0		12.0								
MW05	03/30/10	6.53	14.5	7.6		33.0								
MW06	09/15/08	1.90	20.9	8.3		-31.0								
MW06'	03/12/09	3.37	12.6	8.0		-46.0								
MW06'	06/08/09	4.83	15.4	9.2		-15.0								
MW06'	09/14/09	2.31	18.1	7.4		64.0								
MW06'	12/21/09	1.88	14.8	7.5		1.0								
MW06'	03/30/10	1.98	13.1	7.8		110.0								
MW07	06/18/08	2.61	22.2	7.0		Ur								
MW07	09/15/08	1.56	19.0	7.9		-12.0								
MW07	12/04/08	2.70	5.0	7.0		86.0								
MW07	03/12/09	2.32	13.1	8.3		-52.0								
MW07	06/08/09	4.55	16.1	8.5		19.0								
MW07	09/14/09	1.92	18.4	7.3		82.0								
MW07	12/21/09	1.86	8.4	7.0		29.0								
MW07	03/30/10	1.88	14.3	7.4		141.0								
MW07	06/29/10	1.09	17.7	7.1		-25.0								

Secondary Groundwater Parameters Table

Event ID: 6488 **Reporting Period:** Qtr 3 **Year:** 2013

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Sample Location	Date	Dissolved Oxygen (mg/L)	Temp. (°C)	pH	Specific Conductance (µS/cm)	ORP (mV)	NO3- (mg/L)	Total Fe (mg/L)	Fe^{+2} (mg/L)	SO_4^{-2} (mg/L)	Alkalinity (mg/L)	COD (mg/L)	Other* (units)	Other* (units)
MW07	09/30/10	1.42	16.7	7.3		111.0								
MW07	12/15/10	1.41	13.6	6.9		130.0								
MW07	03/21/11	0.80	12.4	6.9		121.0								
MW07	06/07/11	1.17	15.7	7.2		52.0								
MW07	09/27/11	1.99	17.1	7.1		123.0								
MW07	12/19/11	1.59	12.3	7.5		118.0								
MW07	03/28/12	1.59	15.6	7.0	1495.0	148.5								
MW07	06/27/12	1.04	18.3	6.8		121.0								
MW07	09/17/12	0.98	16.1	6.7	1086.0	111.6								
MW07	12/13/12	1.76	13.0	7.0	1667.0	205.5								
MW07	03/04/13	0.36	12.5	6.1	1641.0	5.1								
MW07	06/03/13	1.57	17.7	6.8		93.0								
MW07	09/03/13	1.18	19.4	6.8	1788.0	-1.6								
MW07	12/02/13	3.45	12.5	5.9	1488	5								
MW08	06/18/08	4.33	23.6	7.0		13.0								
MW08	09/15/08	1.43	20.1	7.8		35.0								
MW08	12/04/08	2.68	5.3	7.0		96.0								
MW08	03/12/09	4.30	13.6	7.0		43.0								
MW08	06/08/09	5.26	15.0	7.4		9.0								
MW08	12/21/09	1.80	14.0	6.9		38.0								
MW08	03/30/10	1.41	14.6	7.5		129.0								
MW08	06/29/10	0.78	17.3	7.0		23.0								
MW08	09/30/10	1.31	17.5	7.0		123.0								
MW08	12/15/10	1.00	13.8	6.7		146.0								
MW08	03/21/11	0.80	12.4	6.4		2.0								
MW08	06/07/11	1.41	16.1	7.1		75.0								
MW08	09/27/11	1.52	18.0	7.1		132.0								
MW08	12/19/11	2.04	10.0	7.3		152.0								
MW08	03/28/12	1.53	17.5	7.0	1135.0	148.9								

Secondary Groundwater Parameters Table

Event ID: 6488 **Reporting Period:** Qtr 3 **Year:** 2013

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Sample Location	Date	Dissolved Oxygen (mg/L)	Temp. (°C)	pH	Specific Conductance (µS/cm)	ORP (mV)	NO3- (mg/L)	Total Fe (mg/L)	Fe^{+2} (mg/L)	SO_4^{-2} (mg/L)	Alkalinity (mg/L)	COD (mg/L)	Other* (units)	Other* (units)
MW08	06/27/12	1.17	17.8	6.8		132.0								
MW08	09/17/12	0.78	16.5	6.6	988.0	137.5								
MW10	06/18/08	2.06	20.6	7.0		-78.0								
MW10	09/15/08	1.12	23.0	8.0		-20.0								
MW10	03/12/09	2.65	12.5	7.7		80.0								
MW10	06/08/09	2.71	17.5	8.2		28.0								
MW10	09/14/09	2.13	19.3	7.5		49.0								
MW10	12/21/09	1.10	15.2	6.9		-99.0								
MW10	03/30/10	1.11	14.0	7.4		Ur								
MW10	06/29/10	0.87	20.2	7.1		-92.0								
MW10	09/30/10	1.45	20.8	7.3		-80.0								
MW10	12/15/10	1.15	15.7	6.7		-3.0								
MW10	03/21/11	0.60	17.0	6.8		-46.0								
MW10	06/07/11	1.36	20.2	7.3		-47.0								
MW10	09/27/11	1.09	23.6	7.1		-78.0								
MW10	12/19/11	1.37	11.5	7.3		-31.0								
MW10	03/28/12	1.28	18.5	7.2	2434.0	-103.3								
MW10	06/27/12	1.70	21.9	7.1		-97.0								
MW10	09/17/12	1.71	18.9	7.0	1717.0	-108.2								
MW10	12/13/12	2.33	12.9	7.2	2573.0	137.6								
MW10	03/04/13	1.28	11.2	6.4	2341.0	-12.4								
MW10	06/03/13	2.13	17.1	7.0		-60.0								
MW10	09/03/13	1.78	25.8	7.3	1532.0	-26.6								
MW10	12/02/13	2.74	13.5	6.1	1765	-31								
MW11	03/12/09	2.53	15.0	8.1		39.0								
MW11	06/08/09	4.26	14.5	8.0		11.0								
MW11	12/21/09	1.91	15.1	7.1		45.0								
MW11	03/30/10	1.25	13.9	7.4		51.0								
MW11	06/29/10	0.93	16.7	7.1		44.0								

Secondary Groundwater Parameters Table

Event ID: 6488 **Reporting Period:** Qtr 3 **Year:** 2013

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Sample Location	Date	Dissolved Oxygen (mg/L)	Temp. (°C)	pH	Specific Conductance (µS/cm)	ORP (mV)	NO3- (mg/L)	Total Fe (mg/L)	Fe^{+2} (mg/L)	SO_4^{-2} (mg/L)	Alkalinity (mg/L)	COD (mg/L)	Other* (units)	Other* (units)
MW11	09/30/10	1.69	17.6	7.2		125.0								
MW11	12/15/10	0.95	15.3	6.7		156.0								
MW11	03/21/11	1.40	12.6	6.7		28.0								
MW11	06/07/11	1.52	14.2	7.2		94.0								
MW11	09/27/11	1.35	18.5	6.9		146.0								
MW11	12/19/11	1.85	11.3	7.0		89.0								
MW11	03/28/12	0.93	14.6	7.0	1623.0	121.4								
MW11	06/27/12	1.56	16.7	6.8		139.0								
MW11	09/17/12	0.61	17.4	6.6	1231.0	15.1								
MW12	03/12/09	1.42	12.6	7.8		82.0								
MW12	06/08/09	2.78	15.2	7.8		6.0								
MW12	09/14/09	2.11	18.9	7.6		46.0								
MW12	12/21/09	1.49	14.7	6.9		47.0								
MW12	03/30/10	1.34	12.4	7.6		-96.0								
MW12	06/29/10	1.12	18.3	7.3		-50.0								
MW12	09/30/10	0.90	20.0	7.6		25.0								
MW12	12/15/10	1.06	15.4	6.9		53.0								
MW12	03/21/11	0.60	12.5	7.1		38.0								
MW12	06/07/11	1.29	15.6	7.5		32.0								
MW12	09/27/11	1.22	22.2	7.0		-39.0								
MW12	12/19/11	1.45	10.7	7.1		-4.0								
MW12	03/28/12	1.43	18.0	7.1	2527.0	-53.1								
MW12	06/27/12	1.26	20.7	7.1		-74.0								
MW12	09/17/12	0.59	19.7	7.0	1508.0	-116.5								
MW12	12/13/12	1.89	13.4	7.3	2363.0	172.0								
MW12	03/04/13	1.10	12.5	6.6	2171.0	-90.9								
MW12	06/03/13	1.20	15.9	7.2		-109.0								
MW12	09/03/13	0.24	21.6	7.6	2278.0	-98.5								
MW12	12/02/13	1.31	17.1	6.5	2254	-127								

Secondary Groundwater Parameters Table

Event ID: 6488 **Reporting Period:** Qtr 3 **Year:** 2013

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Sample Location	Date	Dissolved Oxygen (mg/L)	Temp. (°C)	pH	Specific Conductance (µS/cm)	ORP (mV)	NO3- (mg/L)	Total Fe (mg/L)	Fe^{+2} (mg/L)	SO_4^{-2} (mg/L)	Alkalinity (mg/L)	COD (mg/L)	Other* (units)	Other* (units)
MW13	03/12/09	2.29	11.1	7.6		34.0								
MW13	06/08/09	3.46	15.5	8.1		47.0								
MW13	09/14/09	1.64	19.7	7.9		-23.0								
MW13	12/21/09	1.30	13.8	7.0		40.0								
MW13	03/30/10	1.07	13.4	7.6		Ur								
MW13	06/29/10	0.82	18.3	7.2		-67.0								
MW13	09/30/10	1.48	18.2	7.4		-1.0								
MW13	12/15/10	1.01	14.0	6.8		33.0								
MW13	03/21/11	0.60	14.3	7.0		-49.0								
MW13	06/07/11	1.76	17.5	7.4		-68.0								
MW13	09/27/11	1.69	22.3	7.3		-81.0								
MW13	12/19/11	1.78	10.7	7.4		-62.0								
MW13	03/28/12	0.93	19.0	7.3	2617.0	-117.1								
MW13	06/27/12	1.39	19.4	7.3		-112.0								
MW13	09/17/12	0.45	19.2	6.9	1839.0	-135.5								
MW13	12/13/12	1.20	14.0	7.4	2640.0	94.3								
MW13	03/04/13	0.26	10.8	6.5	2490.0	-276.8	1.390	28.9	0.350	836.000	443	62.0		
MW13	06/03/13	1.47	14.3	7.1		-99.0								
MW13	12/02/13	1.50	15.7	6.1	1779	-91								
MW14	03/30/10	0.50	15.3	7.7		Ur								
MW14	06/29/10	0.63	16.2	7.4		Ur								
MW14	09/30/10	1.60	18.0	7.5		-66.0								
MW14	12/15/10	0.74	14.8	6.9		-48.0								
MW14	03/21/11	0.50	11.9	7.2		Ur								
MW14	06/07/11	1.30	17.3	7.6		-119.0								
MW14	09/27/11	0.64	19.2	7.3		-119.0								
MW14	12/19/11	2.14	8.1	7.6		-57.0								
MW14	03/28/12	1.21	20.3	7.4	1579.0	-145.1								
MW14	06/27/12	1.23	18.7	7.2		-101.0								

Secondary Groundwater Parameters Table

Event ID: 6488 **Reporting Period:** Qtr 3 **Year:** 2013

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Sample Location	Date	Dissolved Oxygen (mg/L)	Temp. (°C)	pH	Specific Conductance (µS/cm)	ORP (mV)	NO3- (mg/L)	Total Fe (mg/L)	Fe^{+2} (mg/L)	SO_4^{-2} (mg/L)	Alkalinity (mg/L)	COD (mg/L)	Other* (units)	Other* (units)
MW14	09/17/12	0.22	17.8	7.1	1221.0	-158.0								
MW14	12/13/12	0.78	13.3	7.3	1881.0	132.8								
MW14	03/04/13	0.20	11.3	6.5	1834.0	-147.0	0.030	63.0	0.450	211.000	690	148.0		
MW14	06/03/13	0.86	17.4	7.1		-110.0								
MW14	09/03/13	0.00	18.6	7.3	1891.0	-41.9								
MW14	12/02/13	1.21	12.8	6.4	2033	-34	3.9	9.5	0.6	320.0	780	38.0		
MW15	03/30/10	3.18	10.6	7.8		-23.0								
MW15	06/29/10	0.75	19.9	7.3		-18.0								
MW15	09/30/10	1.33	20.5	7.5		-2.0								
MW15	12/15/10	0.93	15.4	6.8		40.0								
MW15	03/21/11	1.00	12.2	6.8		5.0								
MW15	06/07/11	0.84	15.5	7.4		5.0								
MW15	09/27/11	0.47	22.5	7.2		-19.0								
MW15	12/19/11	1.42	8.5	7.4		-42.0								
MW15	03/28/12	1.19	14.3	7.3	2015.0	-101.0								
MW15	06/27/12	1.53	20.7	7.1		-115.0								
MW15	09/17/12	0.32	21.3	6.8	1555.0	-134.8								
MW15	12/13/12	1.24	13.7	7.3	2324.0	117.1								
MW15	03/04/13	2.14	9.5	6.7	2291.0	-20.1								
MW15	06/03/13	1.52	15.8	6.9		-96.0								
MW15	09/03/13	0.00	22.0	7.1	2515.0	-63.7								
MW15	12/02/13	1.17	14.7	6.0	1926	-61								
MW16	03/30/10	1.12	10.1	7.4		3.0								
MW16	06/29/10	0.82	20.5	6.9		24.0								
MW16	09/30/10	2.03	20.7	7.2		36.0								
MW16	12/15/10	1.18	12.2	6.7		63.0								
MW16	03/21/11	0.60	10.5	7.1		38.0								
MW16	06/07/11	1.86	18.1	7.2		67.0								
MW16	09/27/11	1.36	22.6	6.9		95.0								

Secondary Groundwater Parameters Table

Event ID: 6488 **Reporting Period:** Qtr 3 **Year:** 2013

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Sample Location	Date	Dissolved Oxygen (mg/L)	Temp. (°C)	pH	Specific Conductance (µS/cm)	ORP (mV)	NO3- (mg/L)	Total Fe (mg/L)	Fe^{+2} (mg/L)	SO_4^{-2} (mg/L)	Alkalinity (mg/L)	COD (mg/L)	Other* (units)	Other* (units)
MW16	12/19/11	2.79	7.9	7.2		65.0								
MW16	03/28/12	2.50	12.8	7.1	1902.0	36.3								
MW16	06/27/12	1.94	20.7	7.0		57.0								
MW16	09/17/12	1.90	20.5	6.8	1422.0	16.1								
MW16	12/13/12	3.63	13.2	7.2	2099.0	208.7								
MW16	03/04/13	1.93	7.8	6.4	2020.0	4.5								
MW16	06/03/13	3.29	14.7	7.0		49.0								
MW16	09/03/13	2.88	24.4	7.2	1974.0	-7.2								
MW17	03/30/10	1.38	12.8	7.6		-29.0								
MW17	06/29/10	0.85	15.5	7.3		-83.0								
MW17	09/30/10	1.26	18.0	7.5		-24.0								
MW17	12/15/10	1.04	15.6	6.9		107.0								
MW17	03/21/11	0.80	12.3	7.0		-75.0								
MW17	06/07/11	1.09	15.0	7.2		-62.0								
MW17	09/27/11	1.23	21.6	6.4		-69.0								
MW17	12/19/11	1.59	12.7	6.6		-29.0								
MW17	03/28/12	1.34	16.8	6.7	1575.0	-73.6								
MW17	06/27/12	1.58	17.4	6.8		-79.0								
MW17	09/17/12	0.26	18.5	6.6	1177.0	-107.1								
MW17	12/13/12	2.97	11.9	7.0	1958.0	151.2								
MW17	06/03/13	1.42	14.4	6.9		-51.0								
MW17	09/03/13	0.88	28.3	7.2	1828.0	-55.8								
MW18	01/31/13						14.000	1.6	0.880	240.000	480	38.0		
MW18	03/04/13	0.00	12.5	6.3	1882.0	-257.2								
MW18	06/03/13	0.20	15.3	6.9		-100.0								
MW18	09/03/13	0.00	18.5	7.0	1905.0	-63.8								
MW18	12/02/13	1.78	13.3	6.0	1682	-14	8.8	2.7	0.1	580.0	390	34.0		
MW19	01/31/13						6.600	1.3	0.530	250.000	530	100.0		
MW19	03/04/13	0.00	12.7	6.4	1784.0	-214.1								

Secondary Groundwater Parameters Table

Event ID: 6488 **Reporting Period:** Qtr 3 **Year:** 2013

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Sample Location	Date	Dissolved Oxygen (mg/L)	Temp. (°C)	pH	Specific Conductance (µS/cm)	ORP (mV)	NO3- (mg/L)	Total Fe (mg/L)	Fe^{+2} (mg/L)	SO_4^{-2} (mg/L)	Alkalinity (mg/L)	COD (mg/L)	Other* (units)	Other* (units)
MW19	06/03/13	0.14	16.4	7.0		-133.0								
MW19	09/03/13	0.00	18.3	7.2	1854.0	-112.0								
MW19	12/02/13	1.24	13.9	6.2	2454	59	3.3	0.8	0.0	1000.0	490	25.0		
MW20	01/31/13						9.900	1.3	1.200	350.000	340	6.0		
MW20	03/04/13	0.00	12.0	6.1	1855.0	-53.7								
MW20	06/03/13	1.18	16.3	6.7		-43.0								
MW20	09/03/13	0.00	19.5	7.0	1801.0	-36.0								
Copy Row	"Copy Row" in the cell in column A of this row													

*List other analytes in header

Groundwater Contamination Trends

Event ID: 6488 **Reporting Period: Qtr 3** **Year: 2013**

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Well Location	Well ID	Date	Benzene (mg/L)	TOC (ft)	Water Table Elevation, Corrected for Product Thickness (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)
Source	MW15	03/30/10	**0.5500**	98.70	90.65	8.05		0
Source	MW15	06/29/10	**0.5200**	98.70	90.57	8.13		0
Source	MW15	09/30/10	**0.4600**	98.70	90.55	8.15		0
Source	MW15	12/15/10	**1.3000**	98.70	90.92	7.78		0
Source	MW15	03/21/11	**0.3380**	98.70	90.58	8.12		0
Source	MW15	06/07/11	**0.1200**	98.70	90.48	8.22		0
Source	MW15	09/27/11	**0.0940**	98.70	91.14	7.56		0
Source	MW15	12/19/11	**0.2700**	98.70	91.49	7.21		0
Source	MW15	03/28/12	**0.3100**	98.70	91.36	7.34		0
Source	MW15	06/27/12	**0.4800**	98.70	91.16	7.54		0
Source	MW15	09/17/12	**0.2300**	98.70	91.53	7.17		0
Source	MW15	12/13/12	**0.3000**	98.70	91.49	7.21		0
Source	MW15	03/04/13	0.0020	98.70	91.10	7.60		0
Source	MW15	06/03/13	0.0850	98.70	91.13	7.57		0
Source	MW15	09/03/13	0.0290	98.70	91.21	7.49		0
Source	MW15	12/02/13	0.0031	98.70	92.17	6.53		0
End Source	Total	Total	Total	Total	Total	Total	Total	Total
Mid-plume	MW18	01/31/13	**0.0390**	97.40	86.56	10.84		0
Mid-plume	MW18	03/04/13	**0.0754**	97.40	86.62	10.78		0
Mid-plume	MW18	06/03/13	**0.0520**	97.40	86.23	11.17		0
Mid-plume	MW18	09/03/13	**0.0540**	97.40	86.22	11.18		0
Mid-plume	MW18	12/02/13	0.0010	97.40	86.79	10.61		0
End Mid-plume	Total	Total	Total	Total	Total	Total	Total	Total
Downgradient	MW14	03/30/10	**0.0110**	96.99	96.99			0
Downgradient	MW14	06/29/10	**0.0120**	96.99	96.99			0
Downgradient	MW14	09/30/10	**0.0130**	96.99	96.99			0
Downgradient	MW14	12/15/10	**0.0380**	96.99	84.45	12.54		0
Downgradient	MW14	03/21/11	**0.1230**	96.99	84.51	12.48		0
Downgradient	MW14	06/07/11	**0.0750**	96.99	84.69	12.30		0
Downgradient	MW14	09/27/11	**0.0950**	96.99	85.30	11.69		0
Downgradient	MW14	12/19/11	**0.1700**	96.99	84.98	12.01		0
Downgradient	MW14	03/28/12	**0.1400**	96.99	84.83	12.16		0
Downgradient	MW14	06/27/12	**0.1500**	96.99	85.21	11.78		0
Downgradient	MW14	09/17/12	**0.1900**	96.99	85.67	11.32		0
Downgradient	MW14	12/13/12	**0.2600**	96.99	85.51	11.48		0
Downgradient	MW14	03/04/13	0.2120	96.99	85.18	11.81		0
Downgradient	MW14	06/03/13	0.1100	96.99	85.72	11.27		0
Downgradient	MW14	09/03/13	0.1100	96.99	85.31	11.68		0
Downgradient	MW14	12/02/13	0.0010	96.99	85.83	11.16		0
End Downgradient	Total	Total	Total	Total	Total	Total	Total	Total

TOC = Surveyed elevation top of casing

Corrective Action Summary	Date

Groundwater Contamination Trends

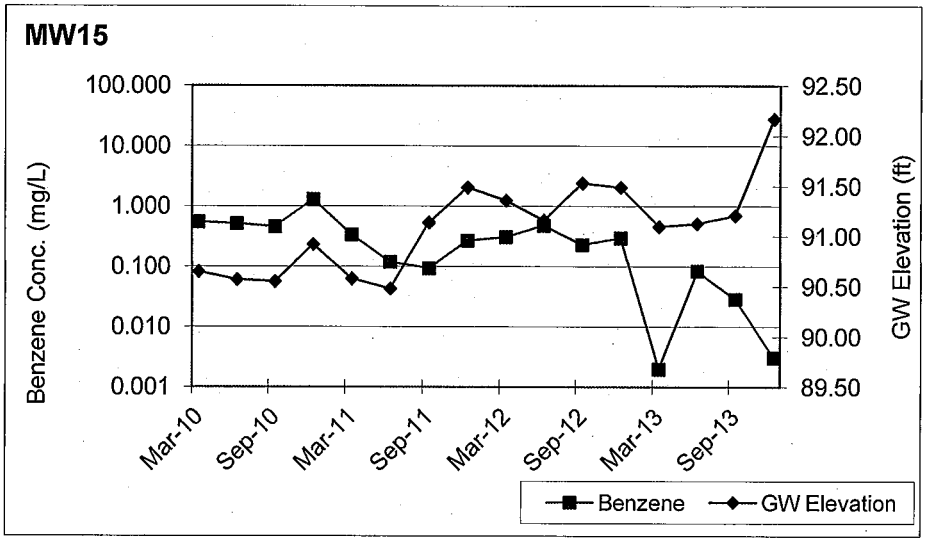
Event ID: 6488 **Reporting Period: Qtr 3** **Year: 2013**

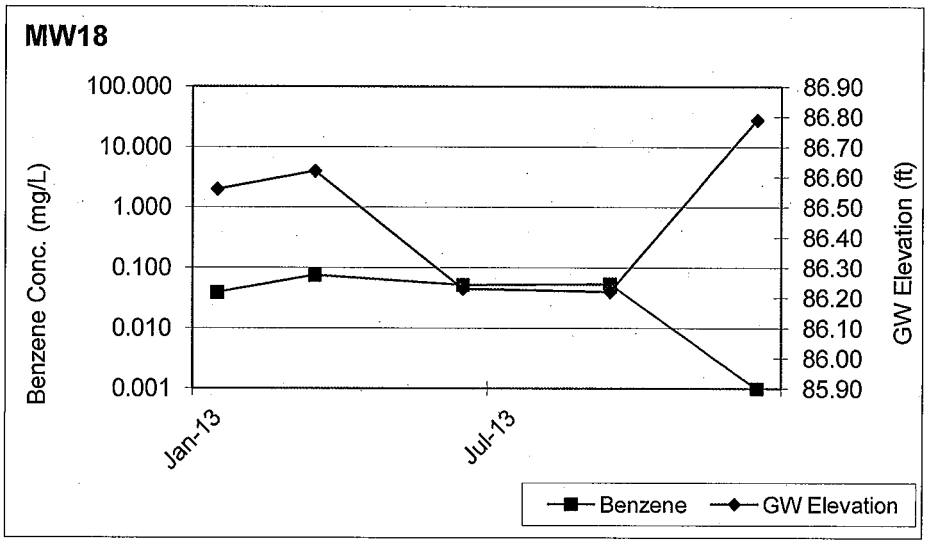
Click on a cell in the section in which you wish the additional row. Then click "New Row"

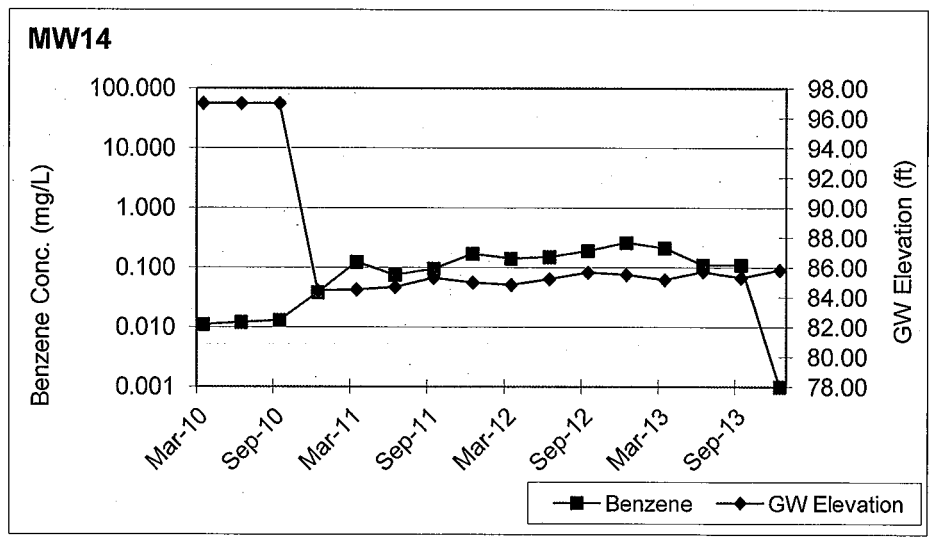
Well Location	Well ID	Date	Benzene (mg/L)	TOC (ft)	Water Table Elevation, Corrected for Product Thickness (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)
Continuous System 1 Start Date			8/15/00					
Continuous System 1 End Date			8/15/02					
Continuous System 2 Start Date			10/25/10					
Continuous System 2 End Date								
In-situ Treatment Event 1			11/5/13					
In-situ Treatment Event 2								
In-situ Treatment Event 3								
In-situ Treatment Event 4								

Groundwater Contamination Trend Graphs

Event ID: 6488 **Reporting Period: Qtr 3** **Year: 2013**







Soil Analytical Results Table

Event ID: 6488 **Reporting Period: Qtr 3** **Year: 2013**

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Sample Location	Date	Rationale	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	TVPH (mg/kg)	TEPH (mg/kg)	Oil & Grease (mg/kg)	Disposition of Contaminated Soil	*Confirmation for Sample Location(s)
890218-01	02/18/98	DE	10.00	**2.500**	1.300	18.000	45.000	**1400.0**			LIP	
890218-02	02/18/98	DE	10.00	0.013	0.024	0.017	0.005	18.0				
890218-03	02/18/98	DE	10.00	**6.500**	7.000	1.300	37.000	**1800.0**			LIP	
890218-04	02/18/98	DE	10.00	**0.820**	0.900	1.500	8.700	190.0			LIP	
890218-05	02/18/98	DE	10.00	0.043	0.050	0.063	0.220	8.0				
890313-01	03/13/98	TANK	12.00	0.005	0.470	0.630	26.000	**830.0**			EDO	
890313-02	03/13/98	TANK	12.00	0.005	0.270	0.450	12.000	**580.0**			EDO	
890313-03	03/13/98	TANK	12.00	0.005	0.400	0.110	1.600	470.0				
890313-04	03/13/98	TANK	12.00	0.005	0.270	0.005	25.000	490.0				
890313-05	03/13/98	TANK	12.00	0.005	0.320	0.640	22.000	**650.0**			EDO	
890313-06	03/13/98	TANK	12.00	0.005	0.100	0.270	10.000	420.0				
890320-01	03/20/98	DISP	4.00	**0.800**	6.100	6.900	13.000	**820.0**			EDO	
890320-02	03/20/98	DISP	4.00	**0.650**	5.500	5.100	36.000	**650.0**			EDO	
890323-01	03/23/98	EXC	8.00	**2.300**	15.000	12.000	67.000	**920.0**			EDO	
890323-02	03/23/98	EXC	8.00	0.230	5.000	7.800	57.000	**700.0**			EDO	
890326-01	03/26/98	EXC	12.00	**2.600**	15.000	7.800	50.000	**680.0**			EDO	
890326-02	03/26/98	EXC	12.00	0.072	0.250	0.099	1.400	140.0				
890326-03	03/26/98	EXC	12.00	0.011	0.028	0.016	0.050	7.1				
890326-04	03/26/98	EXC	12.00	0.022	0.024	0.011	0.009	1.4				
890403-01	04/03/98	EXC		**260.000**	42.000	46.000	140.000	**2700.0**			EDO	
890403-02	04/03/98	EXC		**145.000**	24.000	22.000	76.000	**1400.0**			EDO	
890403-03	04/03/98	EXC		**210.000**	56.000	37.000	110.000	**2000.0**			EDO	
891120-01	11/20/98	DE	10.00	0.005	0.005	0.005	0.005	1.0				
891120-02	11/20/98	DE	10.00	0.020	0.005	0.005	0.005	2.4				
891120-03	11/20/98	DE	10.00	0.005	0.005	5.000	0.005	1.8				
ASI	03/25/10	DE	10.00	0.180	0.120	1.900	4.600	220.0				
MW06'	02/04/09	DE	10.00	0.020	0.020	0.020	0.040	1.0				
MW11	02/04/09	DE	10.00	0.020	0.020	0.020	26.000	8.9				
MW12	02/05/09	DE	10.00	**0.420**	0.580	0.860	3.300	69.0			LIP	

Soil Analytical Results Table

Event ID: 6488 **Reporting Period: Qtr 3** **Year: 2013**

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Sample Location	Date	Rationale	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	TVPH (mg/kg)	TEPH (mg/kg)	Oil & Grease (mg/kg)	Disposition of Contaminated Soil	*Confirmation for Sample Location(s)
MW13	02/04/09	DE	10.00	0.055	0.080	0.800	2.400	87.0				
MW14	03/18/10	DE	15.00	0.020	0.020	0.020	0.040	1.0				
MW15	03/25/10	DE	5.00	0.020	0.020	0.190	1.300	22.0				
MW16	03/18/10	DE	5.00	0.020	0.020	0.020	0.040	1.0				
MW17	03/25/10	DE	10.00	0.020	0.020	0.020	0.040	1.0				
MW18	01/30/13	DE	10.00	0.002	0.003	0.003	0.019	6.4				
MW19	01/30/13	DE	10.00	0.089	0.730	67.000	240.000	**9200.0**			LIP	
MW20	01/30/13	DE	10.00	0.002	0.003	0.003	0.009	1.1				
VW02	02/05/09	DE	5.00	0.020	0.020	0.020	0.040	1.0				

end text Copy Row" in the cell in column A of this row.

If concentration is less than the stated laboratory detection limit, list the detection limit (not ND); e.g. 0.0005

*List sample locations that exceeded RBSLs that the confirmation sample represents

Rationale:

RC =Release confirmation
TANK =Below USTs/ASTs
DISP =Below dispensers
EXC =Excavation UST/AST
CS =Confirmation sample
WC =Waste characterization
SP =Spoils pile or load sample
DE =Define extent
PIPE =Below piping

Disposition of Contaminated Soil :

LIP = Left in place
SPO = Stock piled onsite
EDO = Excavated and disposed offsite
RUE = Replaced untreated to excavation
TRE = Treated and returned to excavation
WIRS = Within the influence of active remedial system

Soil PAH Analytical Table

Event ID: 6488 **Reporting Period: Qtr 3** **Year: 2013**

Sample Location	MW19				Surficial RBSL	Subsurface RBSL
Date	1/30/2013					
Sample Depth (ft)	10				(<3 ft)	(>3 ft)
TVPH (mg/kg)	9200.00				NA	NA
TEPH (mg/kg)					NA	NA
TRPH (mg/kg)					NA	NA
Acenaphthene (mg/kg)	0.10				3,600	>SAT
Acenaphthylene (mg/kg)	0.04				NTD	NTD
Anthracene (mg/kg)	0.03				18,000	>SAT
Benzo(a)-anthracene (mg/kg)	0.03				0.62	1.6
Benzo(a)-pyrene (mg/kg)	0.03				0.062	4.8
Benzo(b)-fluoranthene (mg/kg)	0.03				0.62	4.5
Benzo(g,h,i)-perylene (mg/kg)	0.03				NTD	NTD
Benzo(k)-fluoranthene (mg/kg)	0.03				6.2	4.4
Chrysene (mg/kg)	0.03				62	1.5
Dibenzo(a,h)-anthracene (mg/kg)	0.03				0.062	14
Fluoranthene (mg/kg)	0.03				2,300	>SAT
Fluorene (mg/kg)	0.10				2,400	>SAT
Indeno(1,2,3-CD)-pyrene (mg/kg)	0.03				0.62	>SAT
Naphthalene (mg/kg)	14.50				850	>SAT
Phenanthrene (mg/kg)	0.14				NTD	NTD
Pyrene (mg/kg)	0.05				1,800	>SAT

NTD = No toxicological data
>SAT = Greater than saturation

Soil Vapor Table

Event ID: 6488 **Reporting Period: Qtr 3** **Year: 2013**

Sample Point ID	Date	Construction of Associated Structure	Sample Type	Top of Sample Screen Below Ground or Slab (ft)	Bottom of Sample Screen Below Ground or Slab (ft)	Benzene (µg/m3)	*Other Analytes (µg/m3)	CO2 (%)	O2 (%)	OVM reading (ppm)	Methane (%)	Sample Container Type	Sample Collection Method	Analytical Method	Well Status if Not Sampled
VW01	06/18/08	source area	soil vapor	7.0	8.0	**700000.0**						T	PP	8260	
VW01	09/15/08	source area	soil vapor	7.0	8.0	**680000.0**						T	PP	8260	
VW01	12/04/08	source area	soil vapor	7.0	8.0	**89000.0**						T	PP	8260	
VW01	03/12/09	source area	soil vapor	7.0	8.0	**260000.0**						T	PP	8260	
VW01	04/13/09	source area	soil vapor	7.0	8.0	**340000.0**						T	PP	8260	
VW01	06/08/09	source area	soil vapor	7.0	8.0	**620000.0**						T	PP	8260	
VW01	09/14/09	source area	soil vapor	7.0	8.0	**510000.0**						T	PP	8260	
VW02	02/05/09	slab on grade	soil vapor	5.5	6.0	**240000.0**						T	PP	8260	
VW02	03/12/09	slab on grade	soil vapor	5.5	6.0	**17000.0**						T	PP	8260	
VW02	04/13/09	slab on grade	soil vapor	5.5	6.0	**110000.0**						T	PP	8260	
VW02	06/08/09	slab on grade	soil vapor	5.5	6.0	**110000.0**						T	PP	8260	
VW02	09/14/09	slab on grade	soil vapor	5.5	6.0	**990000.0**						T	PP	8260	
VW02	12/21/09	slab on grade	soil vapor	5.5	6.0	**170000.0**						T	PP	8260	
VW02	03/30/10	slab on grade	soil vapor	5.5	6.0	**660000.0**						T	PP	8260	
VW02	06/29/10	slab on grade	soil vapor	5.5	6.0	**1000000.0**						T	PP	8260	
VW02	09/30/10	slab on grade	soil vapor	5.5	6.0	**810000.0**						T	PP	8260	
end text	"Copy Row" in the cell in column A of this row														

If concentration is less than the stated laboratory detection limit, list the detection limit (not ND); e.g. 0.0005

*List other analytes in header

Sample containers:

S1 =Summa cannister 1 liter
S3 =Summa cannister 3 liter=
S6 =Summa cannister 6 liter
T =Tedlar bag (no shipping)
G =Glass cannister
SYR =Syringe (onsite analysis only)

Sample collection method:

S =Summa cannister
PP =Peristaltic pump
AP =Powered air pump
VC =Vacuum chamber
HP =Hand pump
FC =Flux chamber

Analytical Method:

TO1 =EPA TO1
TO3 =EPA TO3
TO14A =EPA TO14A
TO15 =EPA TO15
8021B =EPA 8021B
8260 =EPA 8260

Well Status if Not Sampled:

SUB =Submerged
DES =Destroyed
INA =Inaccessible
NOP =Not on Monitoring Plan

Indoor Air Table

Event ID: 6488 **Reporting Period: Qtr 3** **Year: 2013**

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Sample Location	Date	Location Type	Benzene (µg/m^3)	*Other Analytes (µg/m^3)	PID Reading (ppm)	Sample Container Type	Sample Collection Method	Sample Collection Period	Analytical Method
Hotel- Indoor	06/29/10	A	0.5			S6	S	24HR	TO15
Hotel-Indoor	03/31/10	A	0.8			S6	S	24HR	TO15
Hotel-Outdoor	03/31/10	O	0.8			S6	S	24HR	TO15
end text	t "Copy Row" in the cell in column A of this row								

*List other analytes in header

Location Type:

A =Abovegrade
B =Basement
C =Crawlspace
O =Outside/Ambient

Sample Containers:

S1 =Summa cannister 1 liter
S3 =Summa cannister 3 liter
S6 =Summa cannister 6 liter
T =Tedlar bag (no shipping)
G =Glass cannister
SYR =Syringe (onsite analysis only)

Sample Collection Method:

S =Summa cannister
PP =Peristaltic pump
AP =Powered air pump
VC =Vacuum chamber
HP =Hand pump
FC =Flux chamber

Sample Collection Period:

INST =Instantaneous
1HR =1 hour
4HR =4 hour
8HR =8 hour
24HR =24 hour

Analytical Method:

TO1 =EPA TO1
TO3 =EPA TO3
TO14A =EPA TO14A
TO15 =EPA TO15
8021 =EPA 8021B
8260 =EPA 8260

Remediation Targets

Event ID: 6488

Click on a cell in the section in which you wish the additional row. Then click "New Row"

Reporting Period: Qtr 3

Year: 2013

Attach SSTL calculations in the Model Input & Results worksheet

Groundwater Site Specific Target Levels											
Sample	Benzene (mg/L)		Toluene (mg/L)		Ethylbenzene (mg/L)		Xylenes (mg/L)		MTBE (mg/L)		Date OPS
Location	Concentration	SSTL	Concentration	SSTL	Concentration	SSTL	Concentration	SSTL	Concentration	SSTL	Concurred
MW15	**0.029**	0.012									

Vadose Zone Soil Site Specific Target Levels										

Saturated Soil Site Specific Target Levels										

Closure Goals	Response
Date monitoring activities are approved through in the CAP	6/30/15
Date remediation system operation is approved through in the CAP	
Projected closure date	6/30/15
Does monitoring data indicate that remediation goals will be met by the projected closure date?	
Did the remedial system operate as designed during the reporting period? If no, describe in narrative	**No**
Is a CAP Modification needed for this event?	No

Excavation Detail Table

Event ID: 6488 **Reporting Period: Qtr 3** **Year: 2013**

Excavation Completion Date	Area Name on Figure	Loose Yards Removed (Yds)	In Place Yards Removed (Yds)	Average Depth of Excavation (ft)	Area of Excavation (ft^2)	Disposition of Contaminated Soil
04/04/98	urce Removal		4000.0	12.0	8400.0	EDO

Disposition of Contaminated Soil :

SPO = Stock piled onsite
EDO = Excavated and disposed offsite
RUE = Replaced untreated to excavation
TRE = Treated and returned to excavation
SPREAD = Spread onsite
LAND = Landfarmed

Free Product Abatement and Total Fluid Recovery Table

Event ID: 6488 **Reporting Period: Qtr 3** **Year: 2013**

Well ID	Date	Operational Time During Period (hrs)	Removal Method	Pre-Abatement Free Product Thickness (ft)	Post-Abatement Free Product Thickness (ft)	Initial Abatement OVM Reading (ppm)	Final Abatement OVM Reading (ppm)	Groundwater Extracted (gals)	Liquid Phase Product Extracted (gals)	Vapor Phase Product Extracted (lbs)	Total Free-Phase Product Extracted (gals)
MW03	11/17/08	EFR	0.00	0.00			150.00				0.00
MW03	12/04/08	EFR	0.00	0.00			100.00				0.00
MW03	01/12/09	EFR	0.00	0.00			100.00				0.00
MW03	02/17/09	EFR	0.00	0.00			75.00				0.00
MW03	03/12/09	EFR	0.00	0.00			50.00				0.00
MW03	04/09/09	EFR	0.00	0.00	1186	1138	25.00				0.00
MW10	02/17/09	EFR	0.00	0.00			25.00				0.00
MW10	03/12/09	EFR	0.00	0.00			0.00				0.00
MW10	04/09/09	EFR	0.00	0.00	72	108	25.00				0.00
MW12	04/09/09	EFR	0.00	0.00	652	714	10.00				0.00
MW13	03/12/09	EFR	0.00	0.00			0.00				0.00
MW13	04/09/09	EFR	0.00	0.00	392	291	50.00				0.00
End text							**Totals**	**0.00**	**0.00**	**0.00**	**0.00**

Removal methods:

HB =Hand-Bail
TFR =Total Fluid Recovery
PS =Passive Skimmer
PNS =Pneumatic Skimmer
AS =Absorbent Sock
OTH =Other

*Provide and label TFR field sheets in 'Other Documents' tab

AS and SVE Remediation System Performance

Event ID: 6488 **Reporting Period: Qtr 3** **Year: 2013**

	AS Unit Performance			SVE Unit Performance						Lab analyses		Mass Removal					
Date	Operation Time During Period (hours)	Positive Pressure at Unit (psig)	Total Discharge Flow Rate (scfm)	Operation Time During Period (hours)	Induced Vacuum at Unit (in H_2O)	Effluent Temper-ature (°F)	System Air Flow Rate (scfm)	VOCs (PID) Pre-treatment (ppmv)	VOCs (PID) Post-treatment (ppmv)	Benzene (mg/L)	TVPH (mg/L)	VOC Emissions for Period PID (lbs)	VOC Emissions for Period TVPH (lbs)	Benzene Emissions for Period (lbs)	Total VOC Emissions PID (lbs)	Total VOC Emissions TVPH (lbs)	Total Benzene Emissions (lbs)
10/25/10	0	0.0	0	2	46.0		156	460				2.00	0.00	0.000	2.00	0.00	0.00
11/04/10	240	2.6	34	240	55.0		150	425	630			213.71	0.00	0.000	215.71	0.00	0.00
11/24/10	480	2.4	35	480	50.0		152	0				0.00	0.00	0.000	215.71	0.00	0.00
12/20/10	624	2.6	34	624	50.0		152	449				594.84	0.00	0.000	810.55	0.00	0.00
01/27/11	912	2.6	34	912	50.0		152	147				284.63	0.00	0.000	1095.18	0.00	0.00
02/28/11	768	2.6	34	768	50.0		152	58				94.57	0.00	0.000	1189.75	0.00	0.00
03/31/11	744	2.6	34	744	55.0		150	12				18.71	0.00	0.000	1208.45	0.00	0.00
04/18/11	0	0.0	0	456	48.0		154	74				72.58	0.00	0.000	1281.04	0.00	0.00
05/06/11	432	2.6	34	432	50.0		152	280				256.81	0.00	0.000	1537.85	0.00	0.00
06/07/11	768	2.6	34	768	36.0		169	144				261.06	0.00	0.000	1798.90	0.00	0.00
07/25/11	1176	2.5	35	1176	43.0		160	61				160.32	0.00	0.000	1959.22	0.00	0.00
08/22/11	672	2.5	35	672	42.0		161	28				42.31	0.00	0.000	2001.53	0.00	0.00
09/30/11	864	2.5	35	864	46.0		156	101				190.14	0.00	0.000	2191.68	0.00	0.00
10/14/11	0			0								0.00	0.00	0.000	2191.68	0.00	0.00
11/08/11	2	2.5	35	2	40.0		163	67				0.31	0.00	0.000	2191.98	0.00	0.00
12/30/11	1248	2.5	35	1248	50.0		152	36				95.39	0.00	0.000	2287.37	0.00	0.00
01/31/12	768	2.4	35	768	48.0		154	2				3.30	0.00	0.000	2290.67	0.00	0.00
02/27/12	648	2.4	35	648	48.0		154	20				27.88	0.00	0.000	2318.55	0.00	0.00
03/28/12	720	2.6	34	720	44.0		160	14				22.53	0.00	0.000	2341.08	0.00	0.00
09/04/12	0	2.8	40	0	28.0		172	30				0.00	0.00	0.000	2341.08	0.00	0.00
10/23/12	1176	2.9	40	1176	40.0		163	13				34.81	0.00	0.000	2375.88	0.00	0.00
11/19/12	645	2.8	40	645	42.0		161	2	7			2.90	0.00	0.000	2378.78	0.00	0.00
12/13/12	574	2.7	37	574	42.0		161	5	1			6.45	0.00	0.000	2385.24	0.00	0.00
02/07/13	984	4.1	65	984	38.0		165	0	9			0.00	0.00	0.000	2385.24	0.00	0.00
03/04/13	600	3.7	68	600	46.0		156	0	0			0.00	0.00	0.000	2385.24	0.00	0.00
04/18/13	1080	4.5	60	1080	50.0		152	0	0			0.00	0.00	0.000	2385.24	0.00	0.00
05/06/13	432	3.6	62	432	40.0		163	0	0			0.00	0.00	0.000	2385.24	0.00	0.00
06/04/13	696	4.0	65	696	46.0		156	0	0			0.00	0.00	0.000	2385.24	0.00	0.00
06/12/13	192	3.8	68	192	45.0		156	0	0			0.00	0.00	0.000	2385.24	0.00	0.00
07/10/13	648	3.8	68	648	42.0		161	0	0			0.00	0.00	0.000	2385.24	0.00	0.00
08/26/13	1128	2.8	40	0								0.00	0.00	0.000	2385.24	0.00	0.00
09/03/13	216	3.7	65	0								0.00	0.00	0.000	2385.24	0.00	0.00
10/09/13	888	4.8	60	0								0.00	0.00	0.000	2385.24	0.00	0.00
10/17/13	192	4.3	63	0								0.00	0.00	0.000	2385.24	0.00	0.00
10/25/13	192	4.5	60	0								0.00	0.00	0.000	2385.24	0.00	0.00
11/12/13	432	3.8	68	0								0.00	0.00	0.000	2385.24	0.00	0.00
12/02/13	480	3.7	68	0								0.00	0.00	0.000	2385.24	0.00	0.00
Total	**21621**			**18551**								**2385**	**0**	**0**			

Calculation for Total VOC (laboratory analyses):
SVE Operational Time in hours x (60 min/1 hour) x Process Air Flow Rate (ft^3/min) x (1 liter/0.03531 ft^3) x concentration in mg/L x (2.205 lbs/1E6 mg) = Total Emissions in lbs.

Calculation for Total VOC (PID):
SVE Operational Time (hrs) x [(P x V x C)/(R x T)] (lb/day) x day/24 hrs = Total Emissions in lbs.

Where: P = 1742.28 lbs/ft^2 = Discharge pressure, based on atmospheric pressure of 12.12 lbs/ft^2 at 5,300 feet above mean sea level
V = System air flow rate in ft^3/min x 1440 min/day = ft^3/day

AS and SVE Remediation System Performance

Event ID: 6488 **Reporting Period: Qtr 3** **Year: 2013**

	AS Unit Performance			SVE Unit Performance						Lab analyses		Mass Removal					
Date	Operation Time During Period (hours)	Positive Pressure at Unit (psig)	Total Discharge Flow Rate (scfm)	Operation Time During Period (hours)	Induced Vacuum at Unit (in H_2O)	Effluent Temper-ature (°F)	System Air Flow Rate (scfm)	VOCs (PID) Pre-treatment (ppmv)	VOCs (PID) Post-treatment (ppmv)	Benzene (mg/L)	TVPH (mg/L)	VOC Emissions for Period PID (lbs)	VOC Emissions for Period TVPH (lbs)	Benzene Emissions for Period (lbs)	Total VOC Emissions PID (lbs)	Total VOC Emissions TVPH (lbs)	Total Benzene Emissions (lbs)

C = Fractional quantity of gas = VOC by PID/1E6

R = 16.27 lbf-ft/lb-mole-°R = Specific gas constant of gasoline = Universal gas constant (1545.33 lbf-ft/lb-mole-°R) / molecular weight of gasoline (95 lb/lb-mole)

T = Discharge temperature °F + 460 = °R

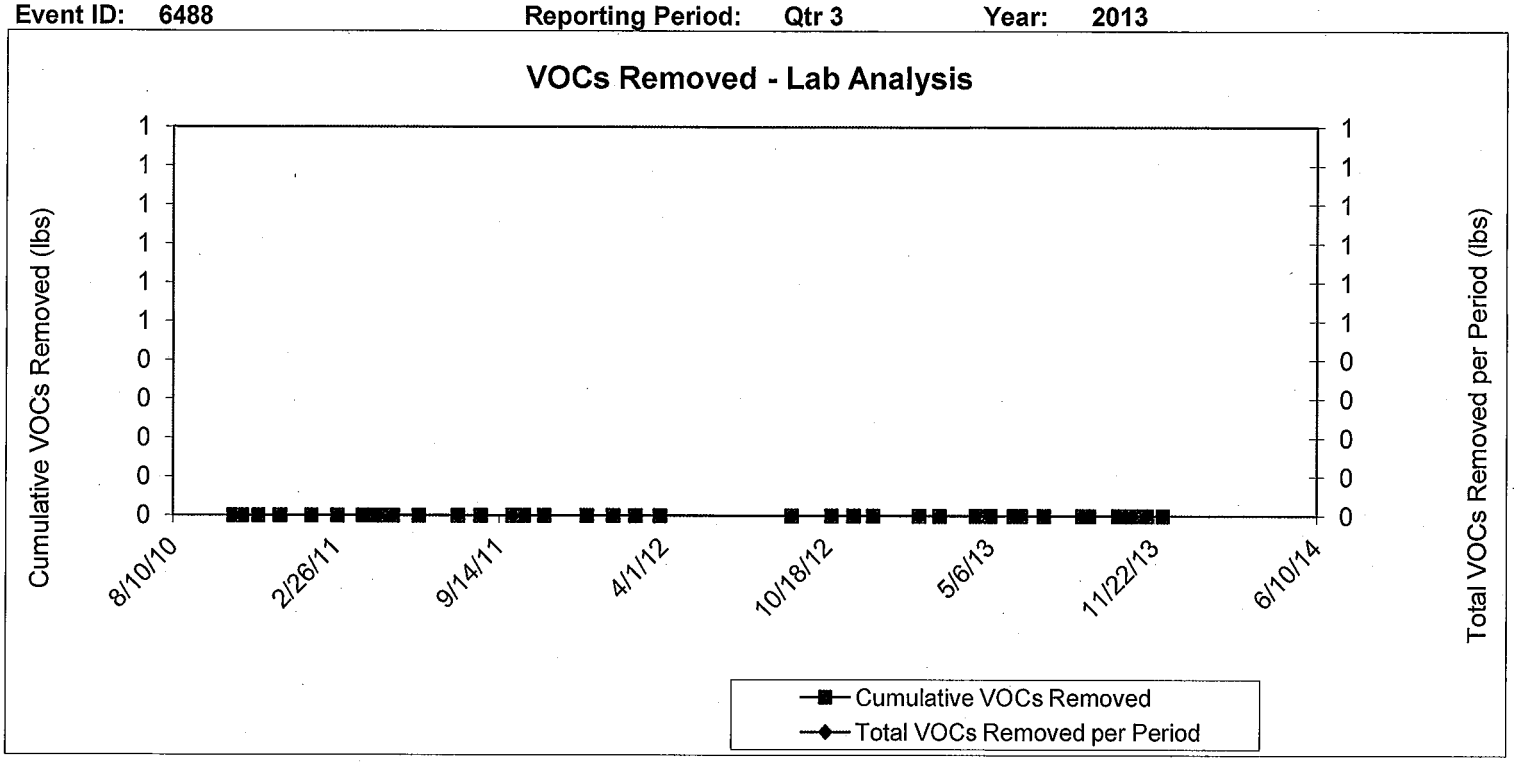
Note: Either PID or laboratory analyses can be used to calculate vapor mass removal.

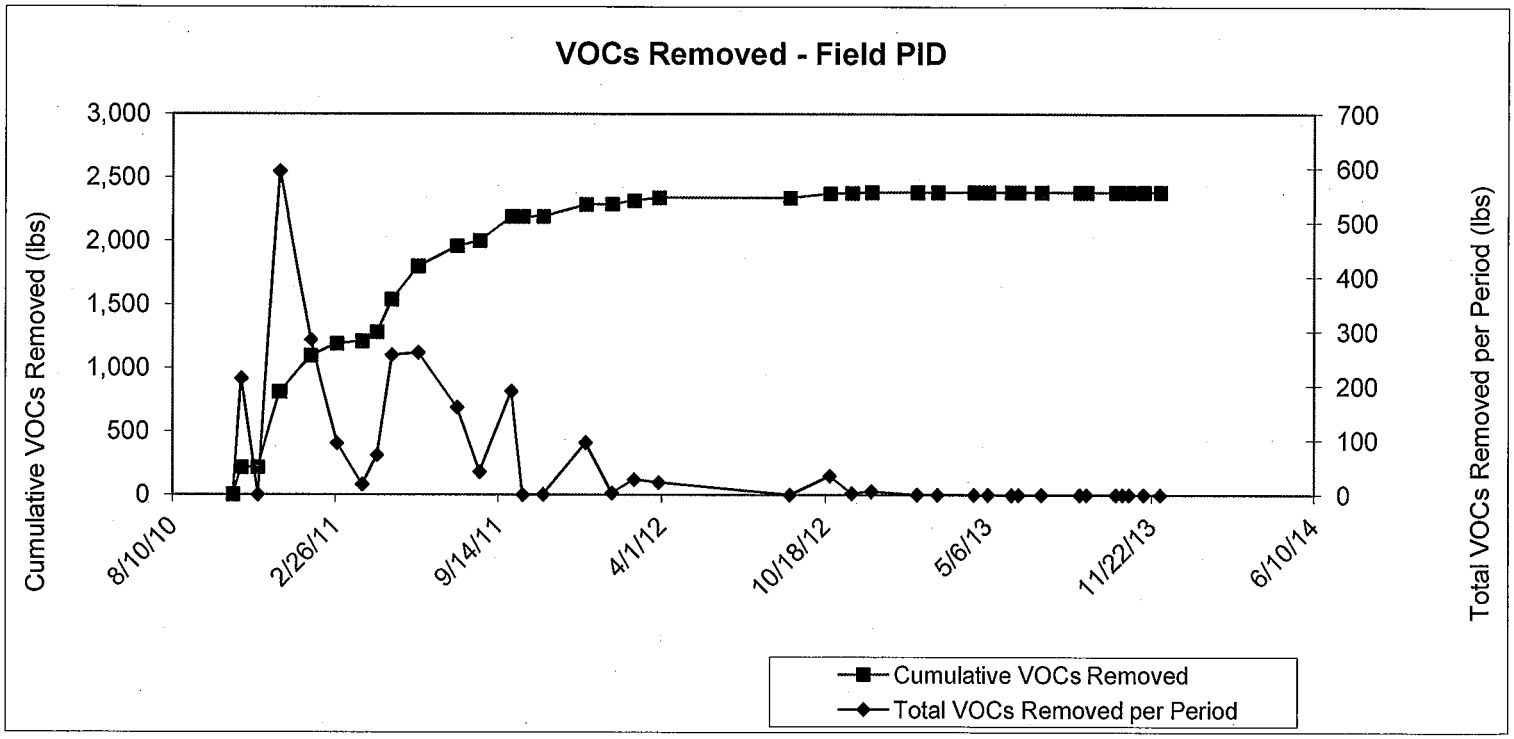
Conversion of vapor units:

1 mg/L = 1E6 $\mu g/m^3$

AS/SVE Remediation System Performance and Mass Removal Graphs

Event ID: 6488 **Reporting Period:** Qtr 3 **Year:** 2013





Summary of Chemical Oxidation and Bio-Enhancement

Event ID: 6488 **Reporting Period:** Qtr 3 **Year:** 2013

	Oxygen or Ozone Gas Addition					Liquid or Slurry Based Addition						
Date	Injection Method	Total Volume of O_2 Injected (ft^3)	Total Volume of O_3 Injected (ft^3)	Injection Pressure (psi)	Number of Injection Points	General Chemical Descriptions and Concentrations	Means of Application	Primary Chemical by Weight (pounds)	Secondary /Catalyst Chemical by Weight (pounds)	Total Injectate Volume (Gallons)	Number of Injection Points	Injection Depth Range (ft)
11/05/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/05/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/05/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/05/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/05/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/05/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/05/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/06/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/06/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/06/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/06/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/06/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/06/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/06/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/06/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/06/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	100		100	1	9-13
11/06/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/06/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/06/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/06/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	100		100	1	9-13
11/06/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/06/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/06/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/07/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/07/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/07/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/07/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/07/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/07/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/07/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	50		50	1	9-13
11/07/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	50		50	1	9-13
11/07/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/07/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/07/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/07/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/07/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/07/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	100		100	1	9-13
11/08/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/08/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/08/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/08/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/08/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/08/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/08/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/08/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/11/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/11/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/11/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/11/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/11/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/11/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/11/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
11/11/13						Chemically Oxygenated Granular Activated Carbon	injection into ground	75		75	1	9-13
Totals	enditext	0	0					4000	0	4000		

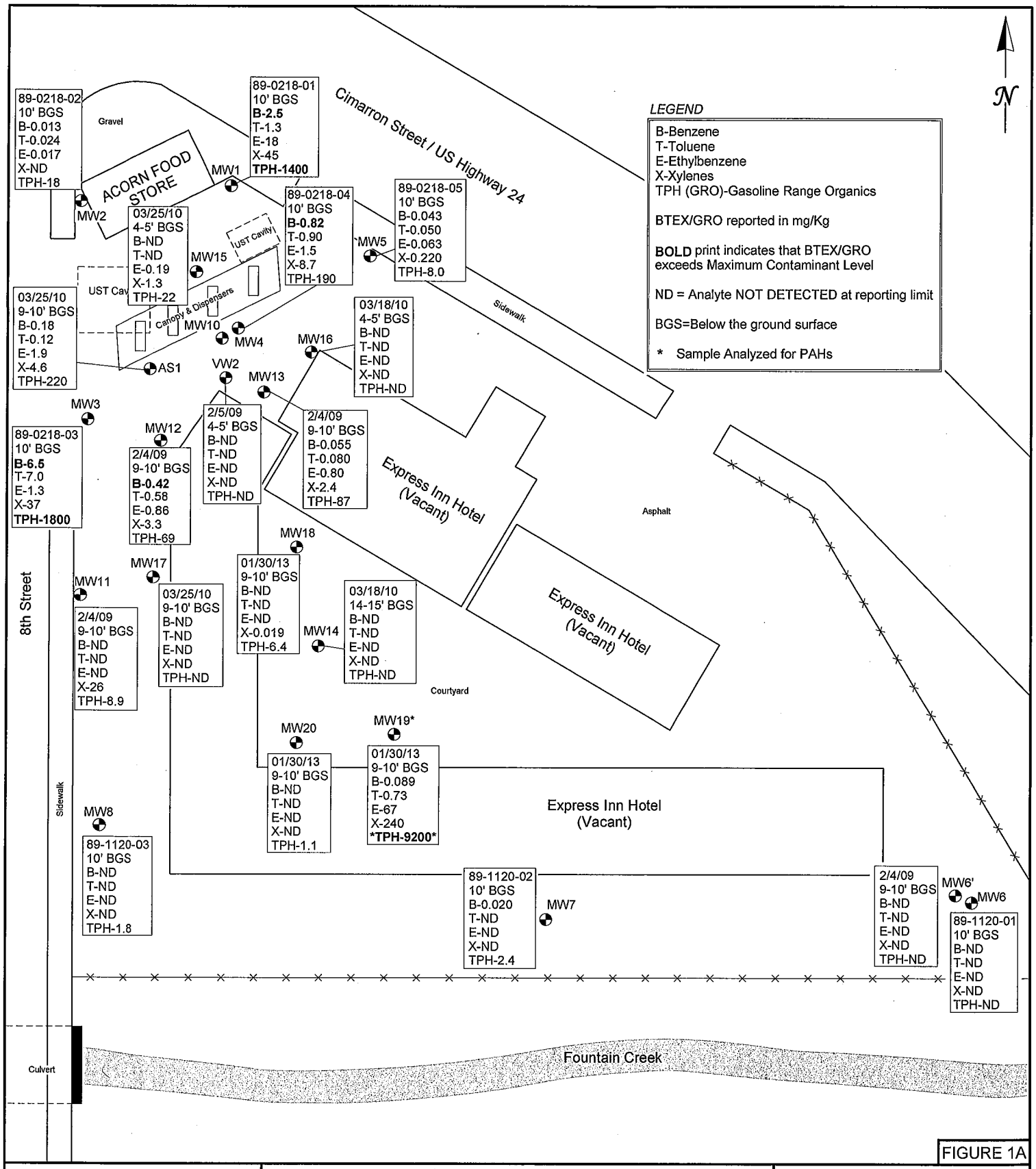


FIGURE 1A

JOB NUMBER: ACN1607B	SOIL SAMPLE LOCATION MAP	GSC GEOLOGIC SERVICES & CONSULTANTS
SCALE: 1" = 80'	ACORN-8TH STREET FOOD STORE 305 SOUTH 8TH STREET COLORADO SPRINGS, COLORADO	
DRAWN BY: AM		
DATE: 12-30-13		

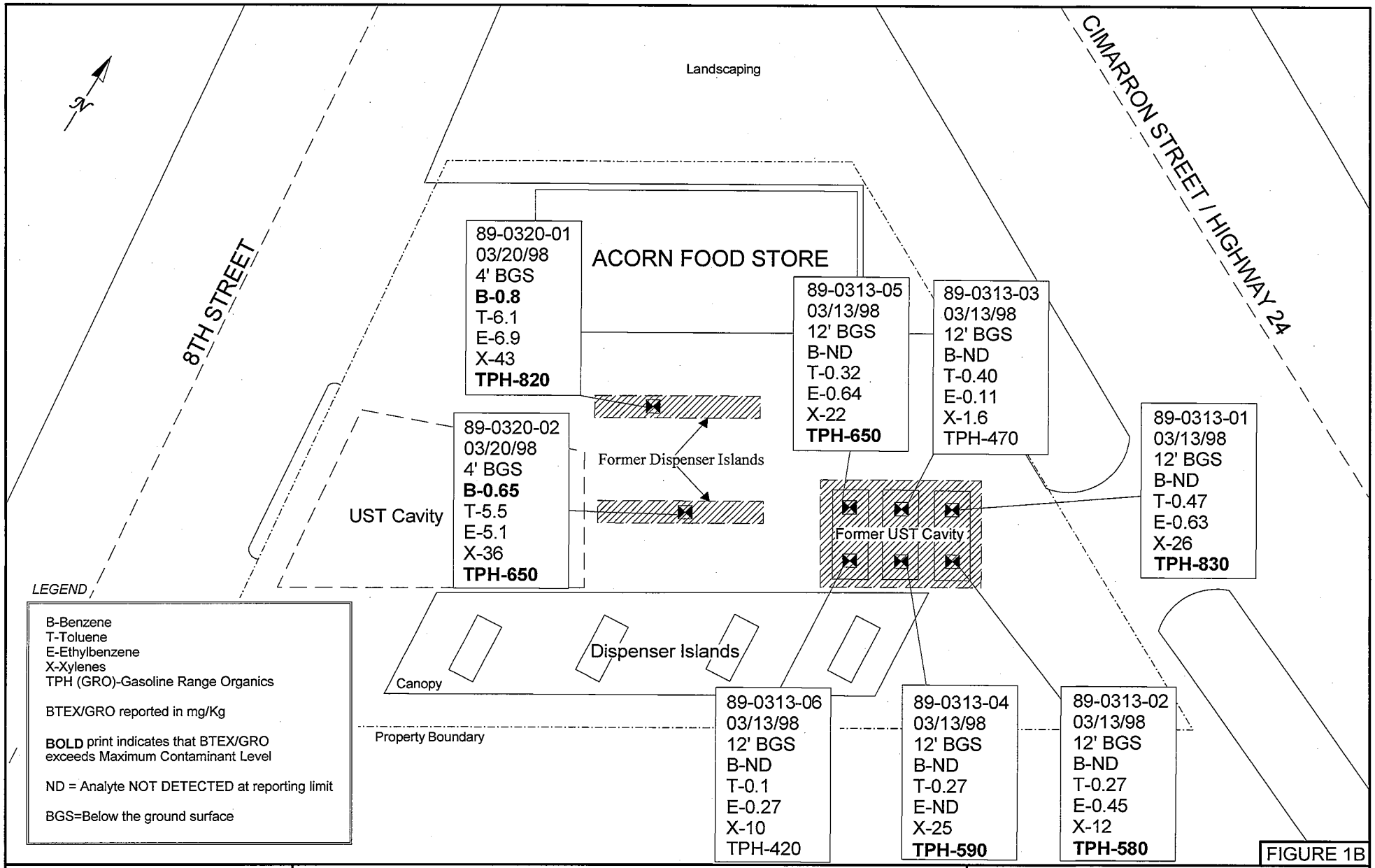


FIGURE 1B

JOB NUMBER: ACN1607B	SOIL SAMPLE LOCATION MAP (TANK/SYSTEM REMOVAL)
SCALE: 1" = 30'	ACORN-8TH STREET FOOD STORE 305 SOUTH 8TH STREET COLORADO SPRINGS, COLORADO
DRAWN BY: AM	
DATE: 12-09-13	

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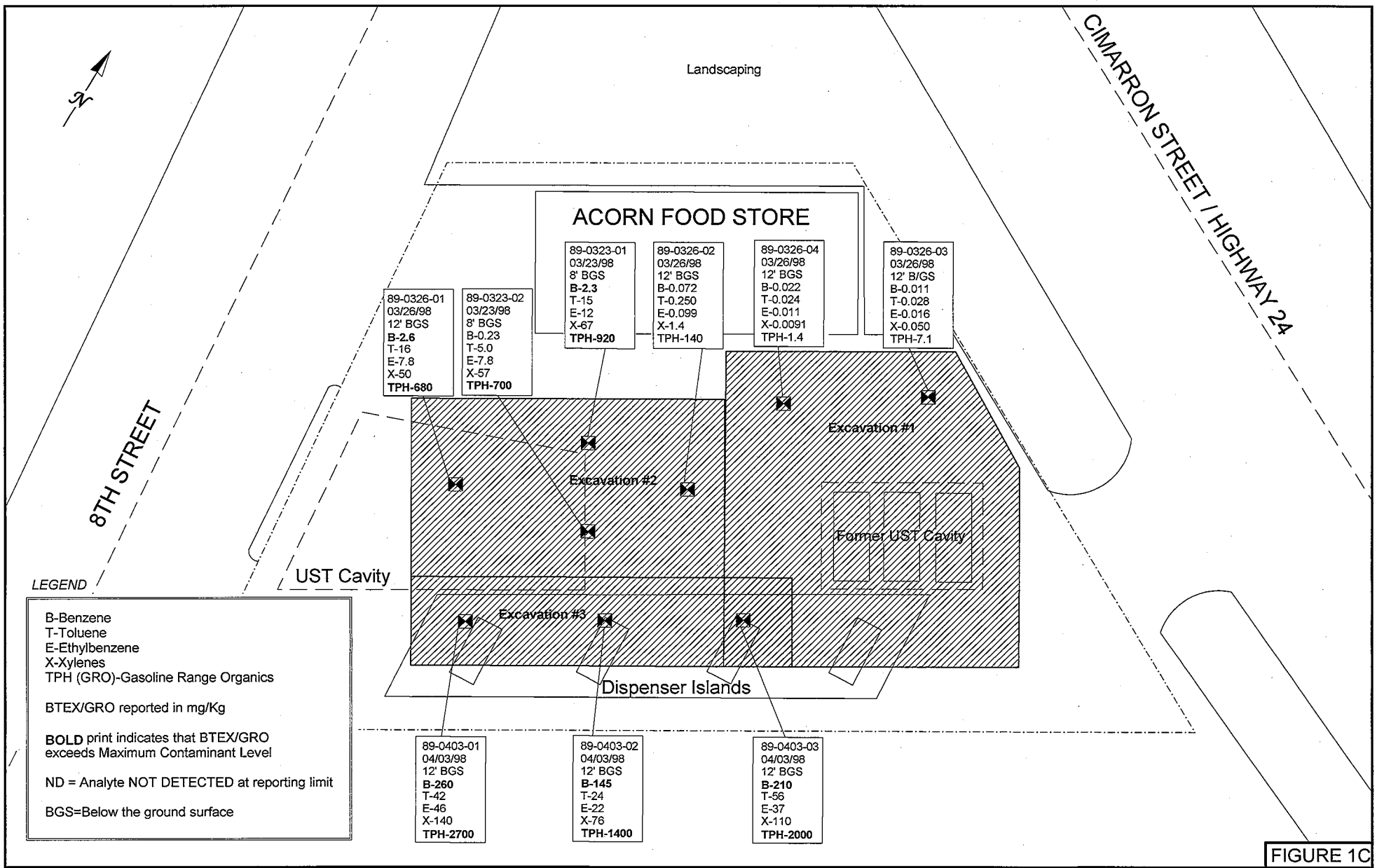

FIGURE 1C

JOB NUMBER: ACN1607B	SOIL SAMPLE LOCATION MAP (SOURCE REMOVAL)
SCALE: 1" = 30'	ACORN-8TH STREET FOOD STORE 305 SOUTH 8TH STREET COLORADO SPRINGS, COLORADO
DRAWN BY: AM	
DATE: 12-09-13	

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GEOLOGIC SERVICES & CONSULTANTS

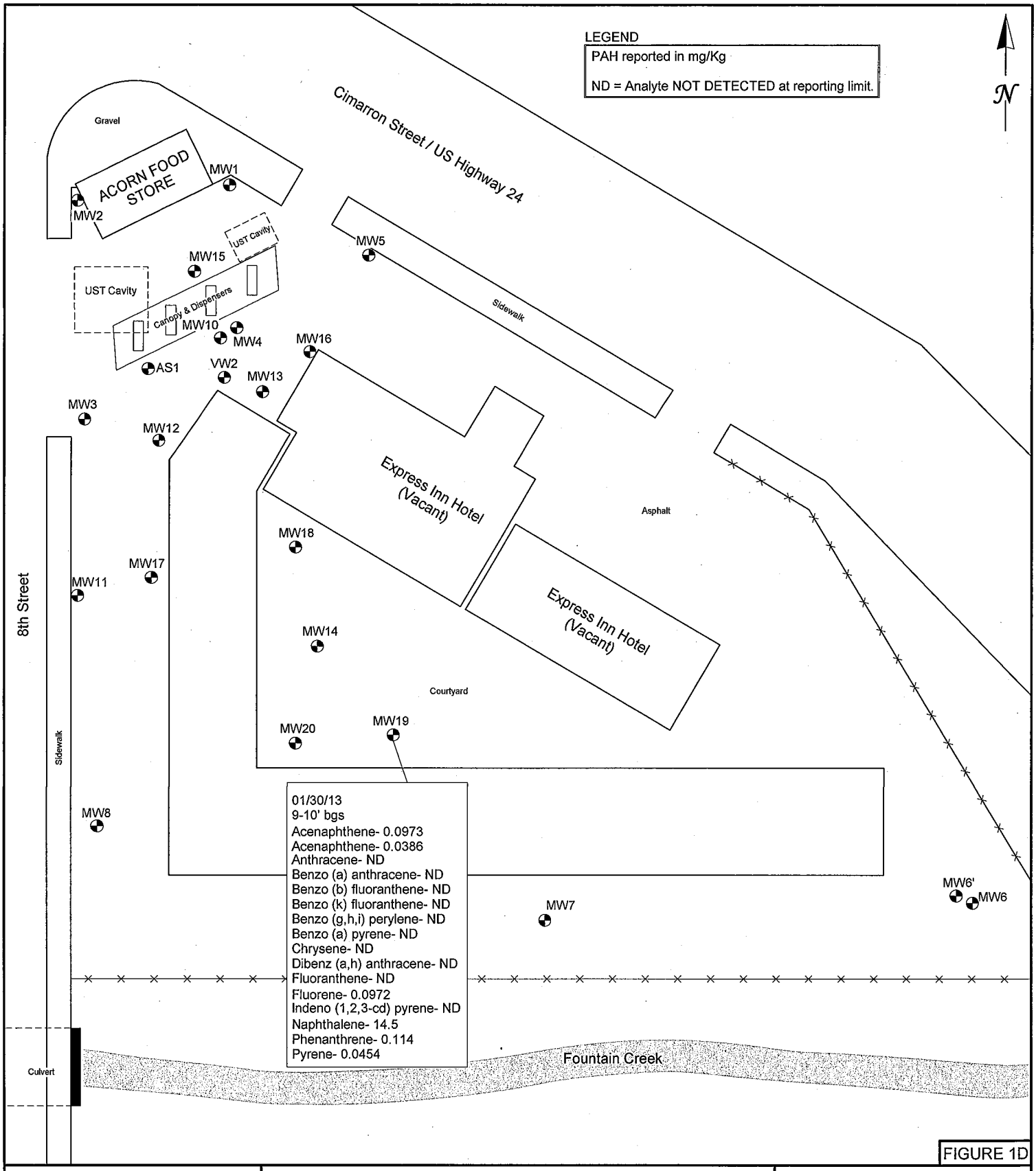

FIGURE 1D

JOB NUMBER: ACN1607B	SOIL SAMPLE LOCATION MAP (PAH)	GSC GEOLOGIC SERVICES & CONSULTANTS
SCALE: 1" = 80'	ACORN-8TH STREET FOOD STORE 305 SOUTH 8TH STREET COLORADO SPRINGS, COLORADO	
DRAWN BY: AM		
DATE: 12-09-13		

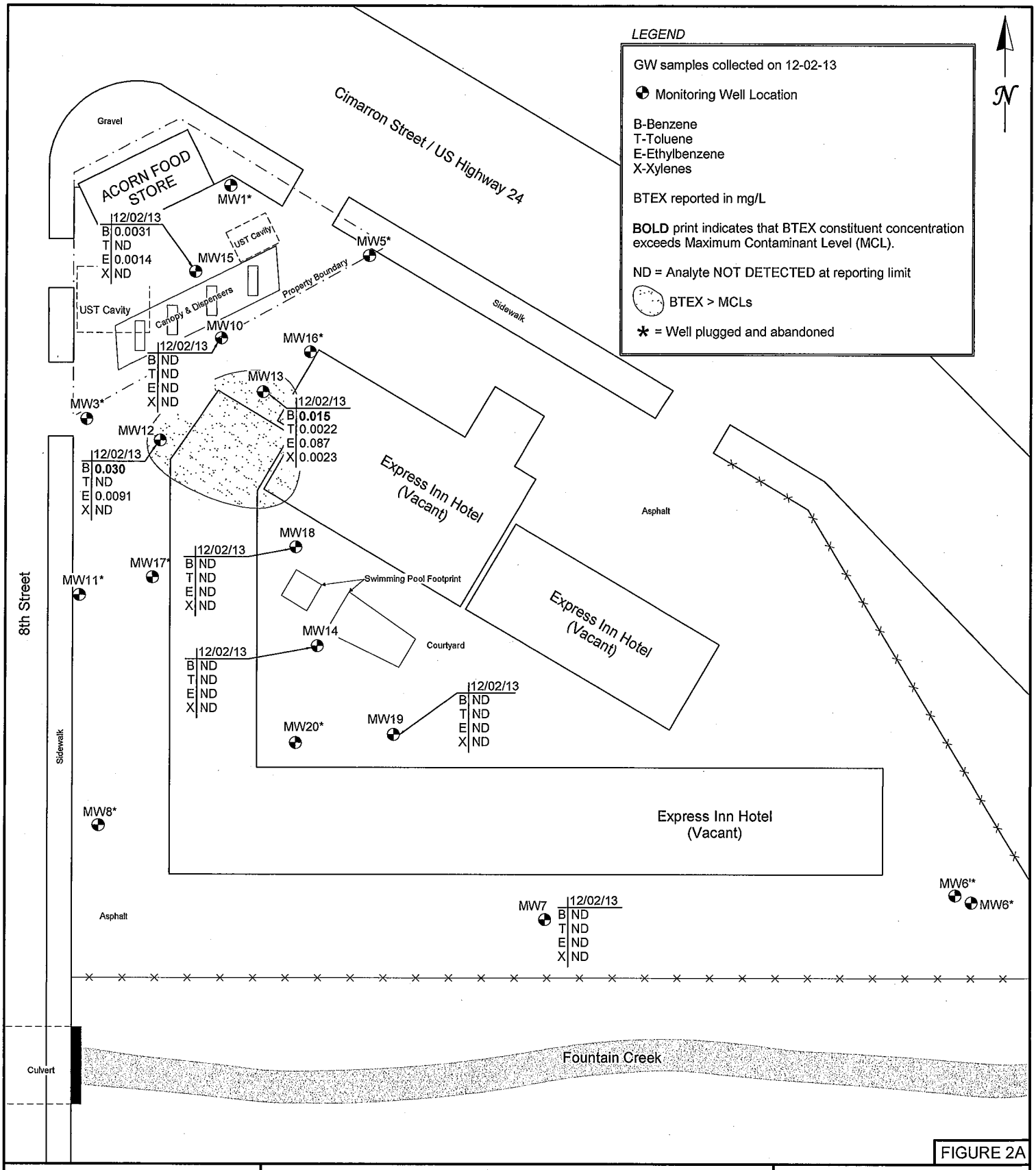

FIGURE 2A

JOB NUMBER: ACN1607B	DISTRIBUTION OF BTEX IN GROUNDWATER	GSC GEOLOGIC SERVICES & CONSULTANTS
SCALE: 1" = 80'	ACORN-8TH STREET FOOD STORE 305 SOUTH 8TH STREET COLORADO SPRINGS, COLORADO	
DRAWN BY: AM		
DATE: 12-30-13		

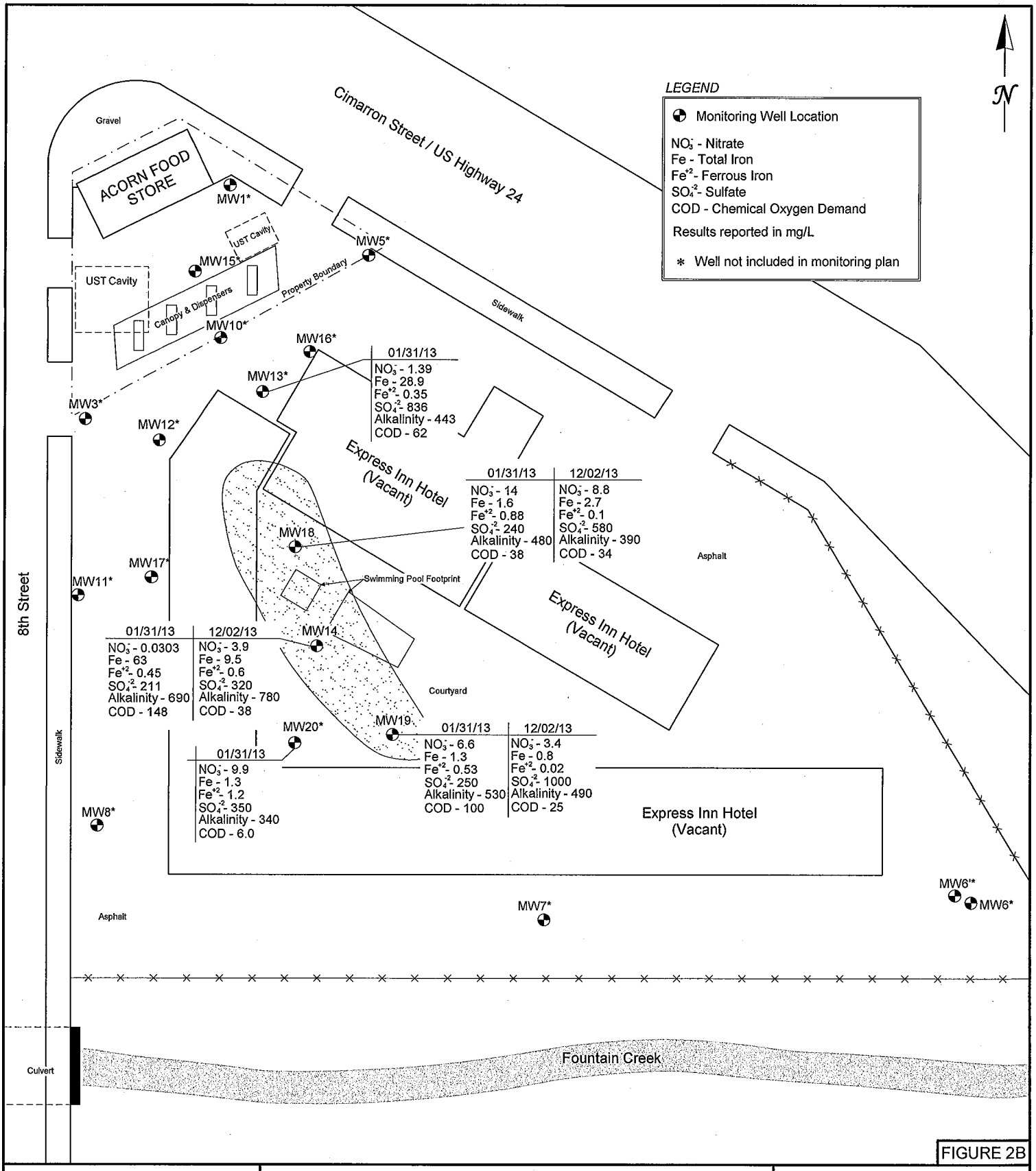

FIGURE 2B

JOB NUMBER: ACN1607B	GROUNDWATER PARAMETERS	GSC GEOLOGIC SERVICES & CONSULTANTS
SCALE: 1" = 80'	ACORN-8TH STREET FOOD STORE 305 SOUTH 8TH STREET COLORADO SPRINGS, COLORADO	
DRAWN BY: AM		
DATE: 12-30-13		

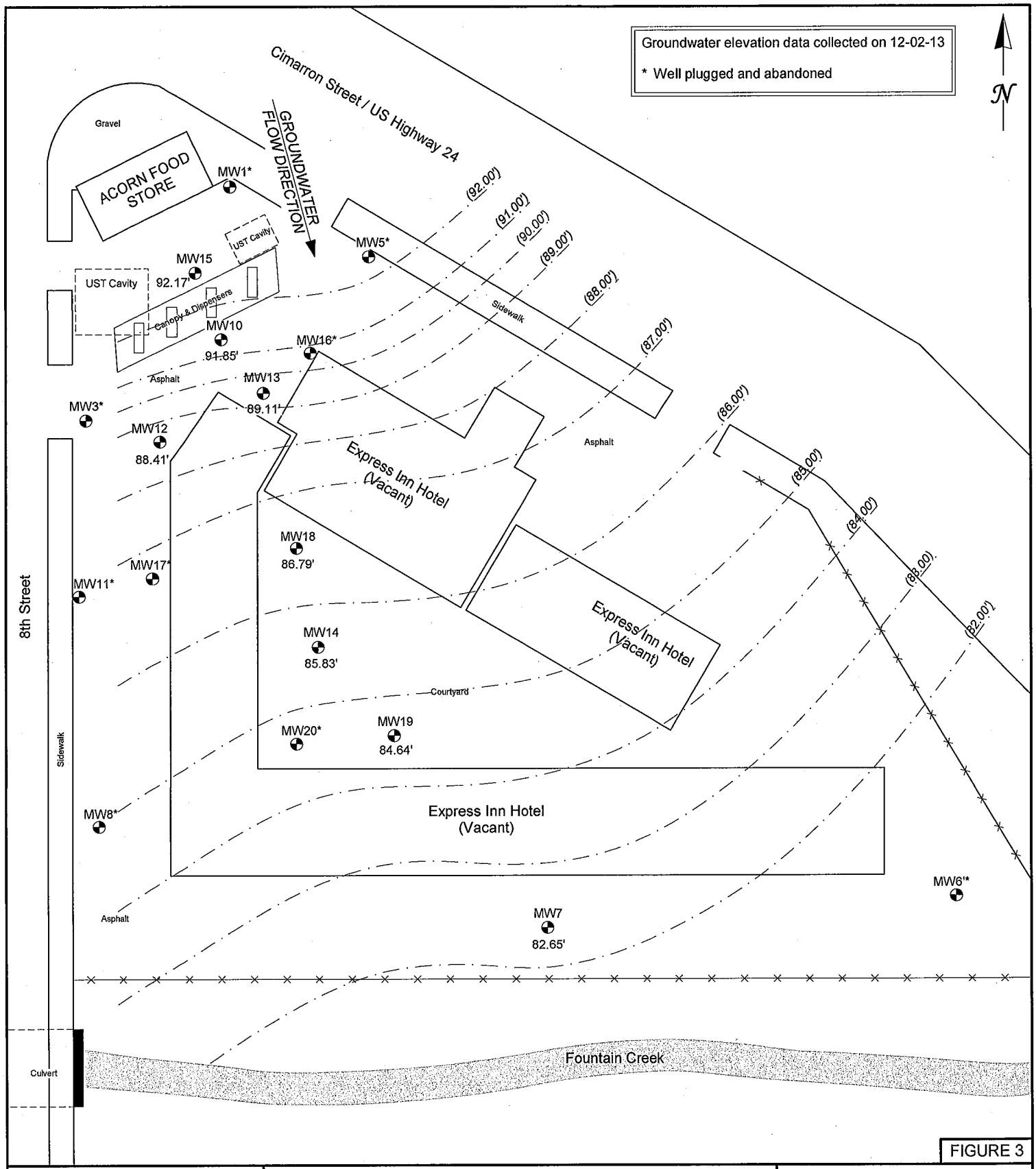

FIGURE 3

JOB NUMBER: ACN1607B	GROUNDWATER ELEVATION MAP	GSC GEOLOGIC SERVICES & CONSULTANTS
SCALE: 1" = 80'	ACORN-8TH STREET FOOD STORE 305 SOUTH 8TH STREET COLORADO SPRINGS, COLORADO	
DRAWN BY: AM		
DATE: 12-30-13		

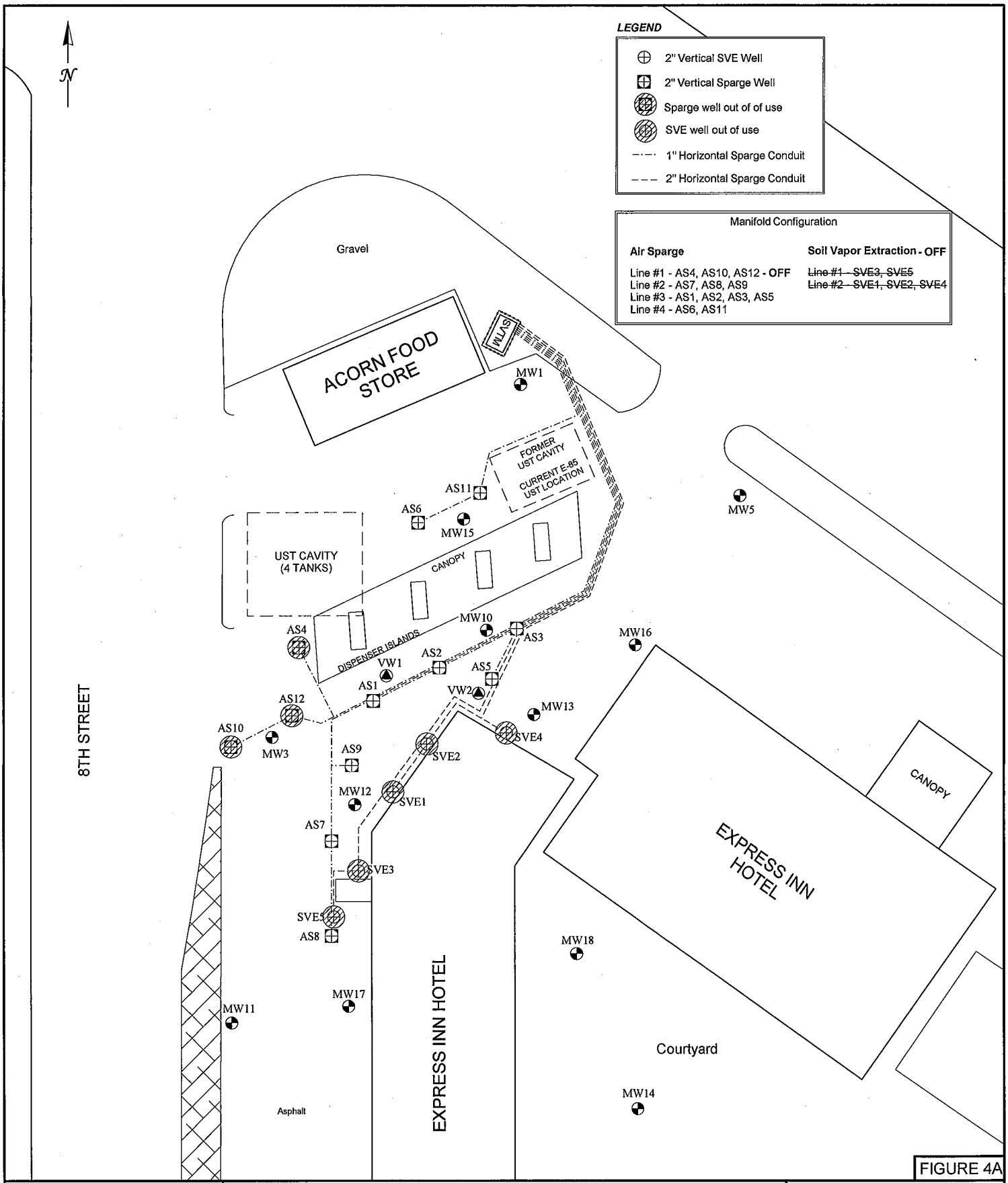

FIGURE 4A

JOB NUMBER: ACN1607B	AS/SVE SYSTEM AS BUILT	GSC GEOLOGIC SERVICES & CONSULTANTS
SCALE: 1" = 50'	ACORN-8TH STREET FOOD STORE 305 SOUTH 8TH STREET COLORADO SPRINGS, COLORADO	
DRAWN BY: AM		
DATE: 12-30-13		

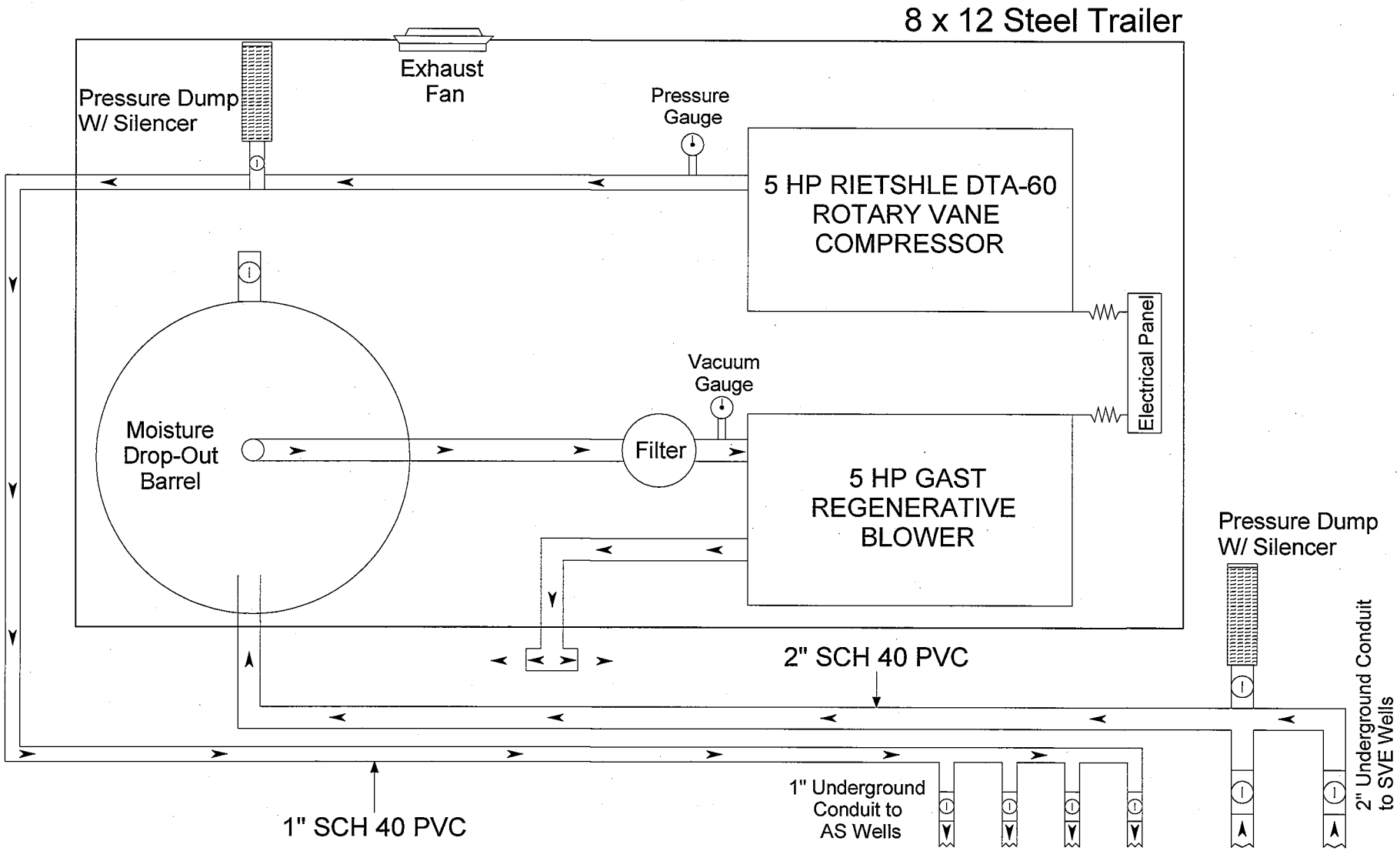

FIGURE 4B

JOB NUMBER:	ACN1607B	AS/SVE SYSTEM PROCESS DIAGRAM
SCALE:	NOT TO SCALE	ACORN-8TH STREET FOOD STORE 305 SOUTH 8TH STREET COLORADO SPRINGS, COLORADO
DRAWN BY:	AM	
DATE:	12-09-13	

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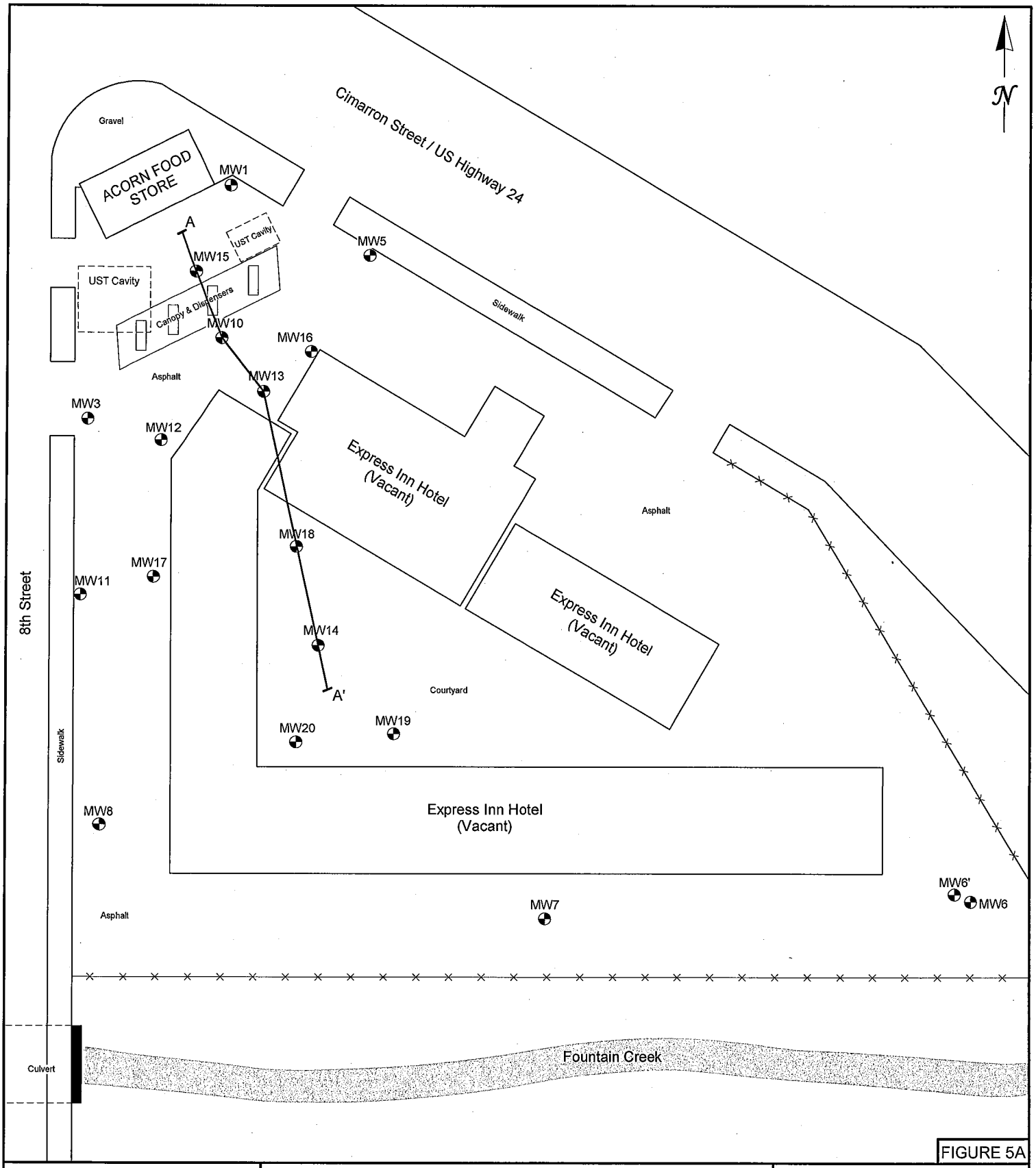

FIGURE 5A

JOB NUMBER: ACN1607B	CROSS SECTION A-A' LOCATION	GSC GEOLOGIC SERVICES & CONSULTANTS
SCALE: 1" = 80'	ACORN-8TH STREET FOOD STORE 305 SOUTH 8TH STREET COLORADO SPRINGS, COLORADO	
DRAWN BY: AM		
DATE: 12-09-13		

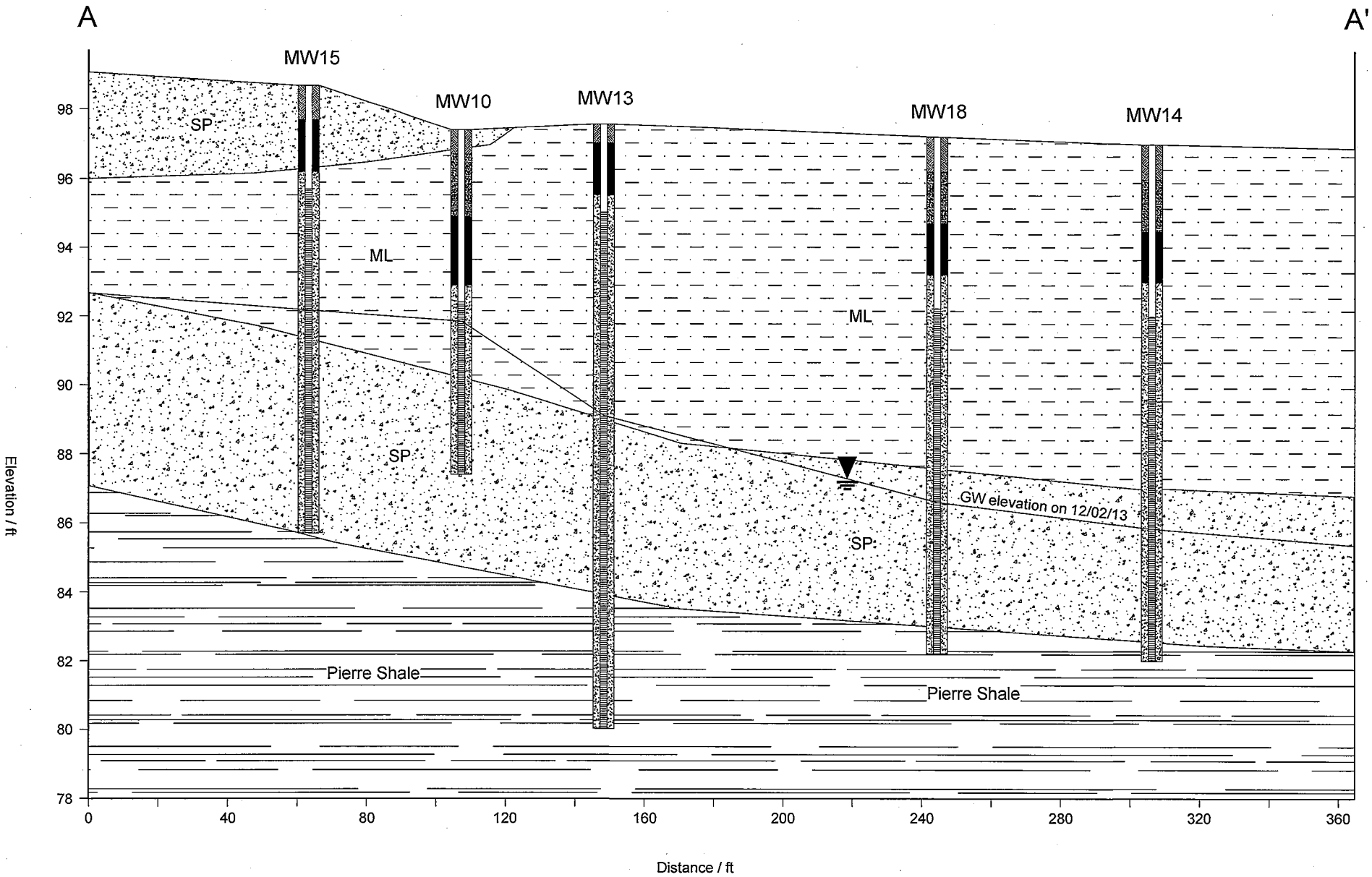

FIGURE 5B

JOB NUMBER: ACN1706B	CROSS SECTION A-A'	GSC GEOLOGIC SERVICES & CONSULTANTS
V. EXAGGERATION: x10	ACORN-8TH STREET FOOD STORE 305 SOUTH 8TH STREET COLORADO SPRINGS, COLORADO	
DRAWN BY: AM		
DATE: 12-09-13		

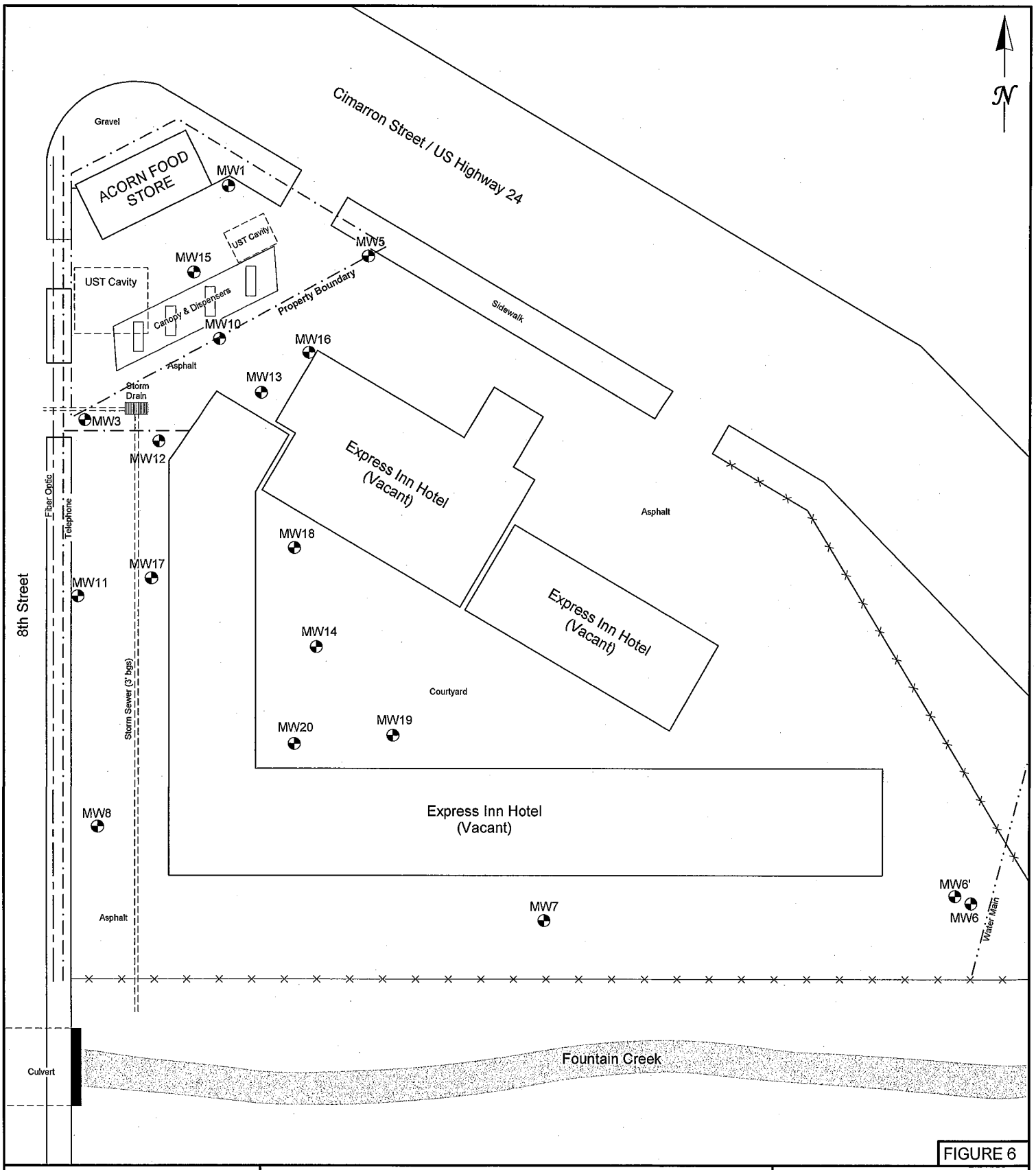

FIGURE 6

JOB NUMBER: ACN1607B	POINTS OF EXPOSURE (POE) MAP	GSC GEOLOGIC SERVICES & CONSULTANTS
SCALE: 1" = 80'	ACORN-8TH STREET FOOD STORE 305 SOUTH 8TH STREET COLORADO SPRINGS, COLORADO	
DRAWN BY: AM		
DATE: 12-09-13		

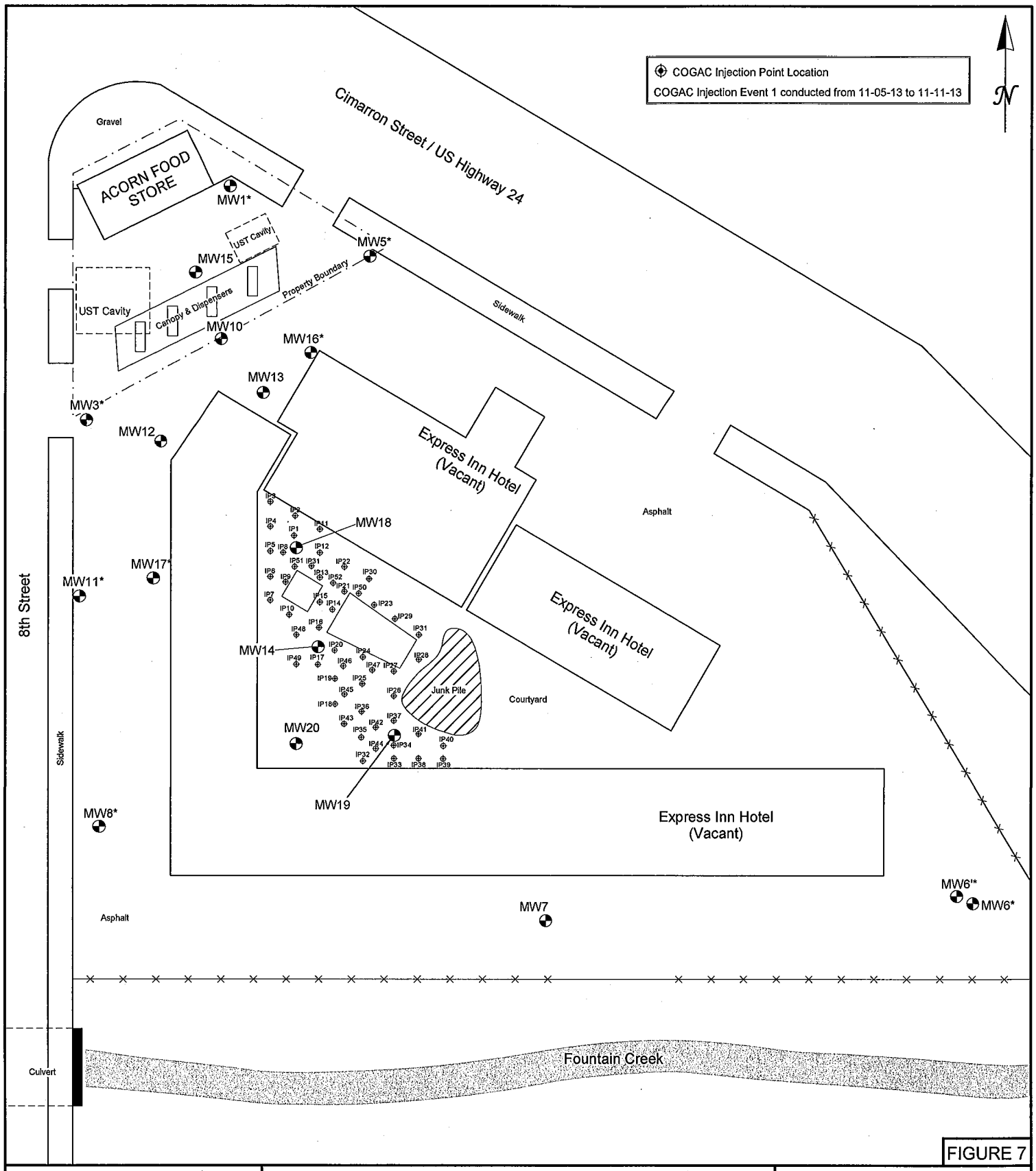

FIGURE 7

JOB NUMBER: ACN1607B	COGAC INJECTION LOCATIONS (EVENT 1)	GSC GEOLOGIC SERVICES & CONSULTANTS
SCALE: 1" = 80'	ACORN-8TH STREET FOOD STORE 305 SOUTH 8TH STREET COLORADO SPRINGS, COLORADO	
DRAWN BY: AM		
DATE: 12-30-13		

INJECTION LOG

JOB NAME: Acorn Food Store

JOB NUMBER: ACN1607B (EID 6488)

SITE LOCATION: 305 S. 8th St., CO Springs, CO

DATE: 11/5/13 - 11/11/13

GSC
GEOLOGIC SERVICES & CONSULTANTS

Injection Point #	Depth (ft)	Water (gal)	COGAC (lbs)	Flow Rate (gpm)	Pressure (psi)	Notes
IP1	13	25	25	3.75	10	MW18 DO_I = 0.20 mg/L
	11	25	25	15	5	
	9	25	25	20	5	MW18 DO_F = 0.60 mg/L
IP2	13	25	25	11.45	5	
	11	25	25	10	5	
	9	25	25	8.47	5	
IP3	13	25	25	7.32	5	
	11	25	25	6.22	5	
	9	25	25	8.2	5	
IP4	13	25	25	8.33	5	
	11	25	25	7.5	5	
	9	25	25	6.17	5	
IP5	13	25	25	6.44	5	
	11	25	25	5.58	5	
	9	25	25	6.55	5	
IP6	13	25	25	7.17	5	
	11	25	25	4.64	10	
	9	25	25	6.84	5	

IP7	13	25	25	10	5	
	11	25	25	7.5	5	
	9	25	25	8.82	5	Surfaced around equipment. Raised 0.5 feet. End Day.
IP8	13	25	25	6.91	5	Pressure in MW18 increased to 0.75" H2O.
	11	25	25	8.52	5	Pressure in MW18 increased to 0.90" H2O.
	9	25	25	7.69	5	Pressure in MW18 increased to 1.0" H2O. MW18 DO_F = 9.25 mg/L
IP9	13	25	25	9.38	5	
	11	25	25	7.81	5	
	9	25	25	8.24	5	Surfaced around equipment. Raised 0.5 feet.
IP10	13	25	25	9.38	5	
	11	25	25	8.52	5	
	9	25	25	6.88	5	
IP11	13	25	25	12.50	5	
	11	25	25	7.69	5	
	9	25	25	9.20	5	
IP12	13	25	25	8.52	5	
	11	25	25	9.62	5	
	9	25	25	9.38	5	Surfaced through IP8
IP13	13	25	25	9.55	5	
	11	25	25	7.14	5	
	9	25	25	8.93	5	
IP14	13	25	25	8.82	5	
	11	25	25	10.20	5	
	9	25	25	5.42	5	

IP15	13	25	25	10.00	5	
	11	25	25	7.69	5	
	9	25	25	7.50	5	
IP16	13	25	25	8.33	5	MW14 DO_I = 0.69 mg/L
	11	25	25	8.52	5	
	9	50	50	9.09	5	MW14 DO_F = 2.30 mg/L
IP17	13	25	25	12.50	5	Pressure in MW14 increased to 0.75" H2O.
	11	25	25	7.89	5	
	9	25	25	9.20	5	
IP18	13	25	25	10.95	5	
	11	25	25	7.94	5	
	9	25	25	10.00	5	
IP19	13	25	25	11.81	5	
	11	25	25	9.68	5	
	9	25	25	9.68	5	
IP20	13	25	25	10.34	5	
	11	25	25	11.36	5	
	9	50	50	11.11	5	COGAC visible in MW14.
IP21	13	25	25	10.00	5	
	11	25	25	7.39	5	
	9	25	25	7.81	5	
IP22	13	25	25	11.90	5	
	11	25	25	11.11	5	
	9	25	25	9.62	5	

IP23	13	25	25	12.00	5	
	11	25	25	9.09	5	
	9	25	25	9.38	5	End Day
IP24	13	25	25	12.50	5	
	11	25	25	10.87	5	
	9	25	25	10.27	5	
IP25	13	25	25	9.43	5	
	11	25	25	10.00	5	
	9	25	25	8.57	5	
IP26	13	25	25	8.57	5	
	11	25	25	9.87	5	
	9	25	25	7.81	5	
IP27	13	25	25	9.80	5	
	11	25	25	7.98	5	
	9	25	25	10.34	5	
IP28	13	25	25	10.34	5	
	11	25	25	11.11	5	
	9	25	25	7.28	5	
IP29	13	25	25	8.62	5	
	11	25	25	6.67	5	
	9	25	25	4.55	10	
IP30	13	25	25	5.00	10	
	11	25	25	4.03	15	
	9	.....	.....	.....	.....	

IP31	13	25	25	6.25	10	
	11	25	25	7.04	10	
	9	.....	.....	.....	.....	
IP32	13	25	25	6.91	5	
	11	25	25	7.28	5	
	9	25	25	6.67	5	
IP33	13	25	25	7.50	5	
	11	25	25	5.81	5	
	9	25	25	5.88	5	
IP34	13	25	25	6.00	5	MW19 DO_I = 0.25 mg/L
	11	25	25	6.58	5	Pressure in MW19 increased to 2.0" H2O
	9	25	25	6.00	5	MW19 DO_F = 1.75 mg/L. No COGAC visible in well.
IP35	13	25	25	12.00	5	
	11	25	25	10.71	5	
	9	25	25	7.32	5	
IP36	13	25	25	2.50	20	
	11	50	50	4.35	20	
	9	.....	.....	.....	.....	
IP37	13	50	50	4.00	20	
	11	25	25	2.50	20	Pump malfunction. End Day
	9	.....	.....	.....	.....	
IP38	13	25	25	8.33	5	
	11	25	25	8.33	5	
	9	25	25	8.33	5	

IP39	13	25	25	8.33	5	
	11	25	25	8.33	5	
	9	25	25	8.33	5	
IP40	13	25	25	8.06	5	
	11	25	25	10.71	5	
	9	25	25	8.82	5	
IP41	13	25	25	8.98	5	
	11	25	25	9.04	5	
	9	25	25	9.93	5	
IP42	13	25	25	11.11	5	
	11	50	50	9.65	5	
	9	25	25	9.87	5	Surfaced around equipment. Raised 0.5 feet.
IP43	13	25	25	8.67	5	
	11	50	50	9.26	5	
	9	25	25	8.62	5	
IP44	13	25	25	8.29	5	
	11	50	50	9.23	5	
	9	25	25	10.64	5	COGAC visible in MW19. End Week.
IP45	13	25	25	12.50	5	
	11	25	25	8.82	5	
	9	25	25	10.56	5	
IP46	13	25	25	10.64	5	
	11	25	25	9.32	5	
	9	25	25	9.74	5	

IP47	13	25	25	8.29	5	
	11	25	25	9.55	5	
	9	25	25	11.11	5	
IP48	13	25	25	12.00	5	
	11	25	25	9.38	5	
	9	25	25	10.49	5	
IP49	13	25	25	12.40	5	
	11	25	25	10.27	5	
	9	25	25	11.90	5	
IP50	13	25	25	7.61	5	
	11	25	25	9.87	5	
	9	25	25	9.04	5	
IP51	13	25	25	10.71	5	
	11	50	50	10.14	5	
	9	25	25	12.30	5	
IP52	13	25	25	12.50	5	
	11	25	25	8.82	5	
	9	25	25	12.00	5	
	Total	4000	4000	.....	.....	
			Average	8.87	5.66	

Environmental Chemistry Services

Environmental Chemistry Services, Inc.
2 Oakwood Park Plaza; 100
Castle Rock, CO 80104-1885
TEL: (303) 850-7606 FAX: (303) 850-7609
Website: www.ecs-corp.com

Clint Wagner
Geologic Services and Consultants, Inc.
2185 Executive Circle
Colorado Springs, CO 80906
Tel: (719) 579-8066
Fax: (719) 579-8028

December 09, 2013

Project Name: Acorn 8th Street Food Store
Project No.: ACN1607B

Work Order: 1312006

Dear Clint Wagner:

Environmental Chemistry Services, Inc. received 8 sample(s) on 12/3/2013 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report, , unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call or email.

TEL: (303) 850-7606 ext:300
kris@ecs-corp.com

Sincerely,

Kris Mascarenas
Director of Client Services

Environmental Chemistry Services

Environmental Chemistry Services, Inc.
2 Oakwood Park Plaza; 100
Castle Rock, CO 80104-1885
TEL: (303) 850-7606 FAX: (303) 850-7609
Website: www.ecs-corp.com

Case Narrative

WO#: **1312006**
Date: **12/9/2013**

CLIENT: Geologic Services and Consultants, Inc.
Project: Acorn 8th Street Food Store

This report in its entirety consists of the documents listed below. All documents contain the Environmental Chemistry Services, Inc. Work Order Number assigned to this report.

1. Paginated Report including: A Cover Letter, Case Narrative, Analytical Results, and Applicable Quality Control Reports.

2. Copies of the Chain of Custody Document(s) supplied with this sample set.

3. Electronic Data Deliverables (EDD) if requested.

Samples were analyzed for BTEX by EPA Method 8260B. This is a gas chromatography/mass spectrometry method using purge and trap concentration and a capillary chromatography column. The surrogate standards are added to monitor purging efficiency.

Samples were analyzed for Nitrate, Sulfate, Alkalinity, Total Iron, Ferrous Iron, and COD using various titrimetric and spectrophotometric methods.

Any comments or problems with the analytical events associated with this report are noted below.

Environmental Chemistry Services, Inc.

Date: *09-Dec-13*

Client:	Geologic Services and Consultants, Inc.	**Client Sample ID:**	MW7
Work Order:	1312006	**Canister ID:**	
Project:	Acorn 8th Street Food Store	**Collection Date:**	12/2/2013 9:40:00 AM
Lab ID:	1312006-01A	**Matrix:**	WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
BTEX		Method: **SW8260B**				Analyst: **KM**
Benzene	ND	0.0010		mg/L	1	12/4/2013 8:17:00 AM
Toluene	ND	0.0010		mg/L	1	12/4/2013 8:17:00 AM
Ethyl benzene	ND	0.0010		mg/L	1	12/4/2013 8:17:00 AM
Xylenes, Total	ND	0.0010		mg/L	1	12/4/2013 8:17:00 AM
Surr: 4-Bromofluorobenzene	89.4	50-150		%REC	1	12/4/2013 8:17:00 AM
Surr: Toluene-d8	91.8	50-150		%REC	1	12/4/2013 8:17:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.
DF	Dilution Factor	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Environmental Chemistry Services, Inc.

Date: *09-Dec-13*

Client:	Geologic Services and Consultants, Inc.	**Client Sample ID:**	MW10
Work Order:	1312006	**Canister ID:**	
Project:	Acorn 8th Street Food Store	**Collection Date:**	12/2/2013 10:00:00 AM
Lab ID:	1312006-02A	**Matrix:**	WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
BTEX		Method: **SW8260B**				Analyst: **KM**
Benzene	ND	0.0010		mg/L	1	12/4/2013 8:43:00 AM
Toluene	ND	0.0010		mg/L	1	12/4/2013 8:43:00 AM
Ethyl benzene	ND	0.0010		mg/L	1	12/4/2013 8:43:00 AM
Xylenes, Total	ND	0.0010		mg/L	1	12/4/2013 8:43:00 AM
Surr: 4-Bromofluorobenzene	87.7	50-150		%REC	1	12/4/2013 8:43:00 AM
Surr: Toluene-d8	91.1	50-150		%REC	1	12/4/2013 8:43:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.
DF	Dilution Factor	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Environmental Chemistry Services, Inc.

Date: *09-Dec-13*

Client:	Geologic Services and Consultants, Inc.	**Client Sample ID:**	MW12
Work Order:	1312006	**Canister ID:**	
Project:	Acorn 8th Street Food Store	**Collection Date:**	12/2/2013 12:07:00 PM
Lab ID:	1312006-03A	**Matrix:**	WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
BTEX		Method: **SW8260B**				Analyst: **KM**
Benzene	0.030	0.0010		mg/L	1	12/4/2013 9:10:00 AM
Toluene	ND	0.0010		mg/L	1	12/4/2013 9:10:00 AM
Ethyl benzene	0.0091	0.0010		mg/L	1	12/4/2013 9:10:00 AM
Xylenes, Total	ND	0.0010		mg/L	1	12/4/2013 9:10:00 AM
Surr: 4-Bromofluorobenzene	95.5	50-150		%REC	1	12/4/2013 9:10:00 AM
Surr: Toluene-d8	93.4	50-150		%REC	1	12/4/2013 9:10:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.
DF	Dilution Factor	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Environmental Chemistry Services, Inc.

Date: *09-Dec-13*

Client:	Geologic Services and Consultants, Inc.	**Client Sample ID:**	MW13
Work Order:	1312006	**Canister ID:**	
Project:	Acorn 8th Street Food Store	**Collection Date:**	12/2/2013 12:30:00 PM
Lab ID:	1312006-04A	**Matrix:**	WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
BTEX		Method: **SW8260B**				Analyst: **KM**
Benzene	0.015	0.0010		mg/L	1	12/4/2013 9:36:00 AM
Toluene	0.0022	0.0010		mg/L	1	12/4/2013 9:36:00 AM
Ethyl benzene	0.087	0.0010		mg/L	1	12/4/2013 9:36:00 AM
Xylenes, Total	0.0023	0.0010		mg/L	1	12/4/2013 9:36:00 AM
Surr: 4-Bromofluorobenzene	92.4	50-150		%REC	1	12/4/2013 9:36:00 AM
Surr: Toluene-d8	90.7	50-150		%REC	1	12/4/2013 9:36:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.
DF	Dilution Factor	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Environmental Chemistry Services, Inc.

Date: *09-Dec-13*

Client:	Geologic Services and Consultants, Inc.	**Client Sample ID:**	MW14
Work Order:	1312006	**Canister ID:**	
Project:	Acorn 8th Street Food Store	**Collection Date:**	12/2/2013 11:07:00 AM
Lab ID:	1312006-05A	**Matrix:**	WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
BTEX		Method: **SW8260B**				Analyst: **KM**
Benzene	ND	0.0010		mg/L	1	12/4/2013 10:03:00 AM
Toluene	ND	0.0010		mg/L	1	12/4/2013 10:03:00 AM
Ethyl benzene	ND	0.0010		mg/L	1	12/4/2013 10:03:00 AM
Xylenes, Total	ND	0.0010		mg/L	1	12/4/2013 10:03:00 AM
Surr: 4-Bromofluorobenzene	85.4	50-150		%REC	1	12/4/2013 10:03:00 AM
Surr: Toluene-d8	90.5	50-150		%REC	1	12/4/2013 10:03:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.
DF	Dilution Factor	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Environmental Chemistry Services, Inc.

Date: *09-Dec-13*

Client:	Geologic Services and Consultants, Inc.	**Client Sample ID:**	MW14
Work Order:	1312006	**Canister ID:**	
Project:	Acorn 8th Street Food Store	**Collection Date:**	12/2/2013 11:07:00 AM
Lab ID:	1312006-05B	**Matrix:**	WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
IRON, FERROUS IN WATER		Method:	**H8146**			Analyst: **TSM**
Iron, Ferrous	0.64	0.020		mg/L	1	12/3/2013 4:33:00 PM
IRON, TOTAL IN WATER		Method:	**H8008**			Analyst: **TSM**
Iron	9.5	0.20	D	mg/L	10	12/7/2013 1:43:00 PM
TOTAL ALKALINITY IN WATER		Method:	**E310.1**			Analyst: **TSM**
Alkalinity, Total (As CaCO3)	780	10		mg/L CaCO3	1	12/7/2013 1:03:00 PM
CHEMICAL OXYGEN DEMAND		Method:	**E410.4**			Analyst: **TSM**
Chemical Oxygen Demand	38	3.0		mg/L	1	12/7/2013 1:23:00 PM
NITRATE (NO3)		Method:	**H8039**			Analyst: **TSM**
Nitrate	3.9	0.30		mg/L	1	12/3/2013 4:43:00 PM
SULFATE (SO4)		Method:	**H8051**			Analyst: **TSM**
Sulfate	320	50	D	mg/L	25	12/3/2013 5:03:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.
DF	Dilution Factor	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Environmental Chemistry Services, Inc.

Date: *09-Dec-13*

Client:	Geologic Services and Consultants, Inc.	**Client Sample ID:**	MW15
Work Order:	1312006	**Canister ID:**	
Project:	Acorn 8th Street Food Store	**Collection Date:**	12/2/2013 12:50:00 PM
Lab ID:	1312006-06A	**Matrix:**	WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
BTEX		Method: **SW8260B**				Analyst: **KM**
Benzene	0.0031	0.0010		mg/L	1	12/4/2013 10:30:00 AM
Toluene	ND	0.0010		mg/L	1	12/4/2013 10:30:00 AM
Ethyl benzene	0.0014	0.0010		mg/L	1	12/4/2013 10:30:00 AM
Xylenes, Total	ND	0.0010		mg/L	1	12/4/2013 10:30:00 AM
Surr: 4-Bromofluorobenzene	82.9	50-150		%REC	1	12/4/2013 10:30:00 AM
Surr: Toluene-d8	91.6	50-150		%REC	1	12/4/2013 10:30:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.
DF	Dilution Factor	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Environmental Chemistry Services, Inc.

Date: *09-Dec-13*

Client:	Geologic Services and Consultants, Inc.	**Client Sample ID:**	MW18
Work Order:	1312006	**Canister ID:**	
Project:	Acorn 8th Street Food Store	**Collection Date:**	12/2/2013 11:35:00 AM
Lab ID:	1312006-07A	**Matrix:**	WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
BTEX		Method: **SW8260B**				Analyst: **KM**
Benzene	ND	0.0010		mg/L	1	12/4/2013 10:56:00 AM
Toluene	ND	0.0010		mg/L	1	12/4/2013 10:56:00 AM
Ethyl benzene	ND	0.0010		mg/L	1	12/4/2013 10:56:00 AM
Xylenes, Total	ND	0.0010		mg/L	1	12/4/2013 10:56:00 AM
Surr: 4-Bromofluorobenzene	88.8	50-150		%REC	1	12/4/2013 10:56:00 AM
Surr: Toluene-d8	92.4	50-150		%REC	1	12/4/2013 10:56:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.
DF	Dilution Factor	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Environmental Chemistry Services, Inc.

Date: *09-Dec-13*

Client:	Geologic Services and Consultants, Inc.	**Client Sample ID:**	MW18
Work Order:	1312006	**Canister ID:**	
Project:	Acorn 8th Street Food Store	**Collection Date:**	12/2/2013 11:35:00 AM
Lab ID:	1312006-07B	**Matrix:**	WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
IRON, FERROUS IN WATER		Method:	**H8146**			Analyst: **TSM**
Iron, Ferrous	0.080	0.020		mg/L	1	12/3/2013 4:34:00 PM
IRON, TOTAL IN WATER		Method:	**H8008**			Analyst: **TSM**
Iron	2.7	0.020		mg/L	1	12/7/2013 1:44:00 PM
TOTAL ALKALINITY IN WATER		Method:	**E310.1**			Analyst: **TSM**
Alkalinity, Total (As CaCO3)	390	10		mg/L CaCO3	1	12/7/2013 1:04:00 PM
CHEMICAL OXYGEN DEMAND		Method:	**E410.4**			Analyst: **TSM**
Chemical Oxygen Demand	34	3.0		mg/L	1	12/7/2013 1:24:00 PM
NITRATE (NO3)		Method:	**H8039**			Analyst: **TSM**
Nitrate	8.8	0.30		mg/L	1	12/3/2013 4:44:00 PM
SULFATE (SO4)		Method:	**H8051**			Analyst: **TSM**
Sulfate	580	50	D	mg/L	25	12/3/2013 5:04:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.
DF	Dilution Factor	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Environmental Chemistry Services, Inc.

Date: *09-Dec-13*

Client:	Geologic Services and Consultants, Inc.	**Client Sample ID:**	MW19
Work Order:	1312006	**Canister ID:**	
Project:	Acorn 8th Street Food Store	**Collection Date:**	12/2/2013 10:35:00 AM
Lab ID:	1312006-08A	**Matrix:**	WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
BTEX		Method: **SW8260B**				Analyst: **KM**
Benzene	ND	0.0010		mg/L	1	12/4/2013 11:23:00 AM
Toluene	ND	0.0010		mg/L	1	12/4/2013 11:23:00 AM
Ethyl benzene	ND	0.0010		mg/L	1	12/4/2013 11:23:00 AM
Xylenes, Total	ND	0.0010		mg/L	1	12/4/2013 11:23:00 AM
Surr: 4-Bromofluorobenzene	86.9	50-150		%REC	1	12/4/2013 11:23:00 AM
Surr: Toluene-d8	92.2	50-150		%REC	1	12/4/2013 11:23:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.
DF	Dilution Factor	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Environmental Chemistry Services, Inc.

Date: *09-Dec-13*

Client:	Geologic Services and Consultants, Inc.	**Client Sample ID:**	MW19
Work Order:	1312006	**Canister ID:**	
Project:	Acorn 8th Street Food Store	**Collection Date:**	12/2/2013 10:35:00 AM
Lab ID:	1312006-08B	**Matrix:**	WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
IRON, FERROUS IN WATER		Method:	**H8146**			Analyst: **TSM**
Iron, Ferrous	0.020	0.020		mg/L	1	12/3/2013 4:35:00 PM
IRON, TOTAL IN WATER		Method:	**H8008**			Analyst: **TSM**
Iron	0.84	0.020		mg/L	1	12/7/2013 1:45:00 PM
TOTAL ALKALINITY IN WATER		Method:	**E310.1**			Analyst: **TSM**
Alkalinity, Total (As CaCO3)	490	10		mg/L CaCO3	1	12/7/2013 1:05:00 PM
CHEMICAL OXYGEN DEMAND		Method:	**E410.4**			Analyst: **TSM**
Chemical Oxygen Demand	25	3.0		mg/L	1	12/7/2013 1:25:00 PM
NITRATE (NO3)		Method:	**H8039**			Analyst: **TSM**
Nitrate	3.3	0.30		mg/L	1	12/3/2013 4:45:00 PM
SULFATE (SO4)		Method:	**H8051**			Analyst: **TSM**
Sulfate	1,000	50	D	mg/L	25	12/3/2013 5:05:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.
DF	Dilution Factor	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Environmental Chemistry Services

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Website: www.ecs-corp.com

QC SUMMARY REPORT

Work Order: **1312006**
09-Dec-13

Client: Geologic Services and Consultants, Inc.
Project: Acorn 8th Street Food Store **BatchID:** **120313A**

Sample ID **MBLK** SampType: **MBLK** TestCode: **FERROUS IR** Units: **mg/L** Prep Date: **12/3/2013** RunNo: **740**
Client ID: **PBW** Batch ID: **120313A** TestNo: **H8146** Analysis Date: **12/3/2013** SeqNo: **10183**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron, Ferrous	ND	0.020									

Sample ID **LCS** SampType: **LCS** TestCode: **FERROUS IR** Units: **mg/L** Prep Date: **12/3/2013** RunNo: **740**
Client ID: **LCSW** Batch ID: **120313A** TestNo: **H8146** Analysis Date: **12/3/2013** SeqNo: **10184**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron, Ferrous	0.97	0.020	1.000	0	97.0	70	130				

Sample ID **LCSD** SampType: **LCSD** TestCode: **FERROUS IR** Units: **mg/L** Prep Date: **12/3/2013** RunNo: **740**
Client ID: **LCSS02** Batch ID: **120313A** TestNo: **H8146** Analysis Date: **12/3/2013** SeqNo: **10185**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron, Ferrous	1.0	0.020	1.000	0	101	70	130	0.9700	4.04	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.	DF	Dilution Factor
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

Work Order: **1312006**
09-Dec-13

Client: Geologic Services and Consultants, Inc.
Project: Acorn 8th Street Food Store **BatchID:** **120313B**

Sample ID **MBLK** SampType: **MBLK** TestCode: **NITRATE_W** Units: **mg/L** Prep Date: **12/3/2013** RunNo: **741**
Client ID: **PBW** Batch ID: **120313B** TestNo: **H8039** Analysis Date: **12/3/2013** SeqNo: **10189**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	ND	0.30									

Sample ID **LCS** SampType: **LCS** TestCode: **NITRATE_W** Units: **mg/L** Prep Date: **12/3/2013** RunNo: **741**
Client ID: **LCSW** Batch ID: **120313B** TestNo: **H8039** Analysis Date: **12/3/2013** SeqNo: **10190**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	9.8	0.30	10.00	0	98.0	70	130				

Sample ID **LCSD** SampType: **LCSD** TestCode: **NITRATE_W** Units: **mg/L** Prep Date: **12/3/2013** RunNo: **741**
Client ID: **LCSS02** Batch ID: **120313B** TestNo: **H8039** Analysis Date: **12/3/2013** SeqNo: **10191**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	10	0.30	10.00	0	100	70	130	9.800	2.02	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.	DF	Dilution Factor
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

Work Order: **1312006**
09-Dec-13

Client: Geologic Services and Consultants, Inc.
Project: Acorn 8th Street Food Store **BatchID:** **120313C**

Sample ID **MBLK** SampType: **MBLK** TestCode: **SULFATE_W** Units: **mg/L** Prep Date: **12/3/2013** RunNo: **742**
Client ID: **PBW** Batch ID: **120313C** TestNo: **H8051** Analysis Date: **12/3/2013** SeqNo: **10195**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	2.0									

Sample ID **LCS** SampType: **LCS** TestCode: **SULFATE_W** Units: **mg/L** Prep Date: **12/3/2013** RunNo: **742**
Client ID: **LCSW** Batch ID: **120313C** TestNo: **H8051** Analysis Date: **12/3/2013** SeqNo: **10196**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	47	2.0	50.00	0	94.0	70	130				

Sample ID **LCSD** SampType: **LCSD** TestCode: **SULFATE_W** Units: **mg/L** Prep Date: **12/3/2013** RunNo: **742**
Client ID: **LCSS02** Batch ID: **120313C** TestNo: **H8051** Analysis Date: **12/3/2013** SeqNo: **10197**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	50	2.0	50.00	0	100	70	130	47.00	6.19	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.	DF	Dilution Factor
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

Work Order: **1312006**
09-Dec-13

Client: Geologic Services and Consultants, Inc.
Project: Acorn 8th Street Food Store **BatchID:** **120713A**

Sample ID **MBLK** SampType: **MBLK** TestCode: **ALKALINITY_** Units: **mg/L CaCO3** Prep Date: **12/7/2013** RunNo: **747**
Client ID: **PBW** Batch ID: **120713A** TestNo: **E310.1** Analysis Date: **12/7/2013** SeqNo: **10231**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	10									

Sample ID **LCS** SampType: **LCS** TestCode: **ALKALINITY_** Units: **mg/L CaCO3** Prep Date: **12/7/2013** RunNo: **747**
Client ID: **LCSW** Batch ID: **120713A** TestNo: **E310.1** Analysis Date: **12/7/2013** SeqNo: **10232**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	50	10	50.00	0	100	70	130				

Sample ID **LCSD** SampType: **LCSD** TestCode: **ALKALINITY_** Units: **mg/L CaCO3** Prep Date: **12/7/2013** RunNo: **747**
Client ID: **LCSS02** Batch ID: **120713A** TestNo: **E310.1** Analysis Date: **12/7/2013** SeqNo: **10233**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	50	10	50.00	0	100	70	130	50.00	0	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.	DF	Dilution Factor
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	RL	Reporting Limit
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QC SUMMARY REPORT

Work Order: **1312006**
09-Dec-13

Client: Geologic Services and Consultants, Inc.
Project: Acorn 8th Street Food Store **BatchID:** **120713B**

Sample ID **MBLK** SampType: **MBLK** TestCode: **COD** Units: **mg/L** Prep Date: **12/7/2013** RunNo: **744**
Client ID: **PBW** Batch ID: **120713B** TestNo: **E410.4** Analysis Date: **12/7/2013** SeqNo: **10207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	ND	3.0									

Sample ID **LCS** SampType: **LCS** TestCode: **COD** Units: **mg/L** Prep Date: **12/8/2013** RunNo: **744**
Client ID: **LCSW** Batch ID: **120713B** TestNo: **E410.4** Analysis Date: **12/7/2013** SeqNo: **10208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	300	3.0	300.0	0	101	70	130				

Sample ID **LCSD** SampType: **LCSD** TestCode: **COD** Units: **mg/L** Prep Date: **12/9/2013** RunNo: **744**
Client ID: **LCSS02** Batch ID: **120713B** TestNo: **E410.4** Analysis Date: **12/7/2013** SeqNo: **10209**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	300	3.0	300.0	0	102	70	130	304.0	0.328	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.	DF	Dilution Factor
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	RL	Reporting Limit
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QC SUMMARY REPORT

Work Order: **1312006**
09-Dec-13

Client: Geologic Services and Consultants, Inc.
Project: Acorn 8th Street Food Store **BatchID:** **120713C**

Sample ID **MBLK** SampType: **MBLK** TestCode: **IRON_W** Units: **mg/L** Prep Date: **12/7/2013** RunNo: **743**
Client ID: **PBW** Batch ID: **120713C** TestNo: **H8008** Analysis Date: **12/7/2013** SeqNo: **10201**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	0.020									

Sample ID **LCS** SampType: **LCS** TestCode: **IRON_W** Units: **mg/L** Prep Date: **12/8/2013** RunNo: **743**
Client ID: **LCSW** Batch ID: **120713C** TestNo: **H8008** Analysis Date: **12/7/2013** SeqNo: **10202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	0.99	0.020	1.000	0	99.0	70	130				

Sample ID **LCSD** SampType: **LCSD** TestCode: **IRON_W** Units: **mg/L** Prep Date: **12/9/2013** RunNo: **743**
Client ID: **LCSS02** Batch ID: **120713C** TestNo: **H8008** Analysis Date: **12/7/2013** SeqNo: **10203**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	0.99	0.020	1.000	0	99.0	70	130	0.9900	0	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.	DF	Dilution Factor
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

Work Order: **1312006**
09-Dec-13

Client: Geologic Services and Consultants, Inc.
Project: Acorn 8th Street Food Store **BatchID:** **R734**

Sample ID **MBLK** SampType: **MBLK** TestCode: **BTEX_W** Units: **mg/L** Prep Date: RunNo: **734**
Client ID: **PBW** Batch ID: **R734** TestNo: **SW8260B** Analysis Date: **12/4/2013** SeqNo: **10071**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0010	0	0				0			
Toluene	ND	0.0010	0	0				0			
Ethyl benzene	ND	0.0010	0	0				0			
Xylenes, Total	ND	0.0010	0	0				0			
Surr: 4-Bromofluorobenzene	45		50.00		89.4	50	150				
Surr: Toluene-d8	47		50.00		93.3	50	150				

Sample ID **LCS** SampType: **LCS** TestCode: **BTEX_W** Units: **mg/L** Prep Date: RunNo: **734**
Client ID: **LCSW** Batch ID: **R734** TestNo: **SW8260B** Analysis Date: **12/4/2013** SeqNo: **10072**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.056	0.0010	0.050	0	112	50	150	0			
Toluene	0.048	0.0010	0.050	0	96.8	50	150	0			
Ethyl benzene	0.046	0.0010	0.050	0	91.8	50	150	0			
Xylenes, Total	0.13	0.0010	0.15	0	85.0	50	150	0			
Surr: 4-Bromofluorobenzene	46		50.00		91.3	50	150				
Surr: Toluene-d8	45		50.00		91.0	50	150				

Sample ID **LCSD** SampType: **LCSD** TestCode: **BTEX_W** Units: **mg/L** Prep Date: RunNo: **734**
Client ID: **LCSS02** Batch ID: **R734** TestNo: **SW8260B** Analysis Date: **12/4/2013** SeqNo: **10087**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.051	0.0010	0.050	0	103	50	150	0.056	8.94	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.	DF	Dilution Factor
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits				

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2 Oakwood Park Plaza; 100
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QC SUMMARY REPORT

Work Order: **1312006**
09-Dec-13

Client: Geologic Services and Consultants, Inc.
Project: Acorn 8th Street Food Store **BatchID:** **R734**

Sample ID **LCSD** SampType: **LCSD** TestCode: **BTEX_W** Units: **mg/L** Prep Date: RunNo: **734**
Client ID: **LCSS02** Batch ID: **R734** TestNo: **SW8260B** Analysis Date: **12/4/2013** SeqNo: **10087**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.049	0.0010	0.050	0	97.3	50	150	0.048	0.515	30	
Ethyl benzene	0.045	0.0010	0.050	0	90.5	50	150	0.046	1.43	30	
Xylenes, Total	0.12	0.0010	0.15	0	83.1	50	150	0.13	2.32	30	
Surr: 4-Bromofluorobenzene	44		50.00		88.8	50	150		0	30	
Surr: Toluene-d8	45		50.00		90.0	50	150		0	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required.	DF	Dilution Factor
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	RL	Reporting Limit
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ECS
Environmental Chemistry Services
2 Oakwood Park Plaza, Suite 100
Castle Rock, Colorado 80104
Phone: 303.850.7606
Fax: 303.850.7609
www.ecs-corp.com

Chain of Custody Record (COC)

COC # 12541

PROJECT INFORMATION

Project Number: ACN1607B
Project Name: Acorn 8th Street Food Store
Report To: Clint Wagner, Geologic Services & Consultants, Inc.
Telephone: 719-579-8066
Fax / E-Mail: clintw@geologicservice.com

TURN-AROUND-TIME (TAT): ☐ Standard ☒ Rush ☐ Other

REMARKS: GSC

Work Order Number: (for lab use only) 1312006

SAMPLE NUMBER / IDENTIFICATION	SAMPLE Date	SAMPLE Time	SAMPLE Matrix*	Container & Size**	NUMBER OF CONTAINERS	BTEX	Nitrate/Sulfate	Alkalinity	Total Iron	Ferrous Iron	COD		CANISTER ID	REMARKS	LAB #
MW7	12/02/13	9:40 AM	AQ	C40	2	X									1
MW10	12/02/13	10:00 AM	AQ	C40	2	X									2
MW12	12/02/13	12:07 PM	AQ	C40	2	X									3
MW13	12/02/13	12:30 PM	AQ	C40	2	X									4
MW14	12/02/13	11:07 AM	AQ	C40	2	X	16 OZ	8 OZ	8 OZ	4 OZ	3 C40			Total - Preservative	5
MW15	12/02/13	12:50 PM	AQ	C40	2	X									6
MW18	12/02/13	11:35 AM	AQ	C40	2	X	16 OZ	8 OZ	8 OZ	4 OZ	3 C40			Total - Preservative	7
MW19	12/02/13	10:35 AM	AQ	C40	2	X	16 OZ	8 OZ	8 OZ	4 OZ	3 C40			Total - Preservative	8

Sampled By: Aaron Mazzetti
Shipment Method:
Airbill Number:

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
1a Relinquished By:		Laura Hughes	Geologic Services & Consultants, Inc.	12/03/13	10:30 AM
1b Received By:		Gary Pratt	RAP	12/3/13	1327
2a Relinquished By:		Gary Pratt	RAP	12/3/13	1412
2b Received By:		Sam Oakley	RAP	12-3-13	1412
3a Relinquished By:		Sam Oakley	RAP	12-3-13	1544
3b Received By:		Kris Mascarenas	ECS	12-3-13	1544

THE ABOVE SIGNED HAS READ AND UNDERSTANDS THE CREDIT TERMS AND CREDIT POLICIES OF ECS, INC. AND AGREES TO THE TERMS AND CONDITIONS AS SET FORTH IN THIS AGREEMENT.

*Matrix Key: AQ = Aqueous AR = Air SO = Soil WA = Waste OT = Other
**Container: A = Amber B = Brass C = Clear Glass P = Plastic S = Soil Jar SU = Summa PF = PUF T = Tedlar TU = Tube OT = Other
Preservative: H = HCl N = Nitric SF = Sulfuric