



ARKANSAS
Department of Environmental Quality

MEMORANDUM OF REVIEW
Reimbursement Request
Petroleum Storage Tank Trust Fund

From: Regulated Storage Tank Division Staff

Date: August 29, 2017

Subject: **Flash Market #354**
6906 Highway 412
Glencoe, AR
ID #25001616 LUST #25-0009 AFIN #25-00315

A request for reimbursement (#1) for costs incurred during remediation of an UST site was received from the responsible party (RP) on June 27, 2017. A release was recorded at this facility on April 6, 2015 (#25-0009) after it was reported that minor amounts of free product were in the four tank hold observation wells. The name and address of the responsible party are:

J & P Flash, Inc.
Attn: Dwayne Jones
1683 N. Shelby Oaks Drive
Memphis, TN 38134

The time covered by this application is October 1, 2015 through January 31, 2017. Activities for which reimbursement is being requested include: initial efforts to the locate source of release, free product removal, preparation and reporting of an Initial Site Characterization, preparation and submittal of a Revised Free Product Removal Work Plan and Cost Estimate, preparation and submittal and implementation of the Site Assessment Work Plan and Cost Estimate and preparation of the reimbursement application.

A Revised Free Product Removal Work Plan was approved on June 28, 2016 in the amount of \$54,651.00 and a Site Assessment Work Plan was approved on November 8, 2016 in the amount of \$55,543.81.

To date approximately 6,583 gallons of contaminated ground water and 20 gallons of non-aqueous phase liquid gasoline and 193 gallons of vapor-equivalent gasoline were removed during six mobile dual phase extractions.

This reimbursement application includes (2) invoices from Environmental Pollution Consultants, Inc. (\$9,514.35) and (2) invoices from Scott's Underground (\$7,780.00) that were paid directly by the responsible party. Also included in the reimbursement application are eight (8) invoices from SEMS, Inc., the consultant, totaling \$116,742.56. Included in SEMS invoices are charges from: Anderson Engineering (\$28,733.25), ESC Labs (\$2,542.00), Pine Environmental (\$611.95) and EON Products (\$454.63). **All invoices included in this application total \$124,242.56.**

The consultant and the RST Case Manager have each prepared a summary of activities. (See attachments)

STAFF RECOMMENDATION:

The claimed cost of **\$124,242.56** was checked against documentation provided. Cost Summary Sheets and all recap sheets provided by the claimant. The certification forms provided by the claimant are on file with the application.

The staff recommends payment as follows:

Claim filed - Form TF-1	\$124,242.56
Less Deductible:	- 7,500.00
Recommended for Payment	<u>\$116,742.56</u>

It is recommended that the claim made by the RP be considered for payment in the amount of **\$116,742.56**

Approved Work Plans

25001616 25-0009

	Date	Work Plans	Amount
	Approved		
01	06/28/2016	Revised Free Product Removal Work Plan	\$54,651.00
02	11/08/2016	Site Assessment Work Plan	\$55,543.81
03	03/14/2017	Change Order #1 to Site Assessment Work Plan	\$18,870.52
			\$129,065.33

Facility ID# 25-0001616
Date 05/05/17

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I also certify that the amounts claimed for reimbursement under this application have been paid in full. I further certify that I have the authority to submit this application on behalf of

J&P Flash, Inc.

Dwayne Jones

Type/Print name of Owner/Operator or Responsible Party

Dwayne Jones

Signature of Owner/Operator or Responsible Party

ACKNOWLEDGEMENT

Sworn to and subscribed before me this 1 day of June, 2017.

Melissa McCain

Notary Public

My Commission Expires: March 7 2021



PROOF OF PAYMENT AFFIDAVIT

I, Richard W. Lee being of sound mind, am responsible to ensure this application is completed per regulatory requirements. I have personal knowledge of the contents of this document; all of which are true and correct to the best of my knowledge. Furthermore, as President of SEMS, Inc., I certify that, as of this date, SEMS, Inc. has been paid in full by J&P Flash, Inc. for the invoices contained in this reimbursement request:

Invoice Number	Invoice Date	Invoice Amount
48960	8/31/2016	\$11,516.28
49144	9/30/2016	\$5,428.77
49315	10/31/2016	\$8,282.88
49591	11/30/2016	\$1,253.34
49783	12/31/2016	\$5,873.77
49970	1/31/2017	\$56,605.65
50341	3/31/2017	\$1,000.00
50514	3/31/2017	\$16,987.52
Total		\$106,948.21

Signed this 17 day of July, 2017

Richard W. Lee

Richard W. Lee - President

ACKNOWLEDGEMENT

Sworn to and subscribed before me this 17 day of July, 2017.

Laurie Beno #55543

Notary Public Laurie Beno

My Commission Expires:

12/31/2018

Interim Request No.	01	COST SUMMARY SHEET					
Consultant /Responsible Party: SEMS, Inc. / Flash Market # 354							
Facility Identification #: 25-0001616				Facility Name: 0			
Dates current costs incurred:		From	10/01/15	to	01/31/17	Request Date:	03/31/17
COST SUMMARY							
1. DIRECT LABOR COST (attach labor recap)			Hours	Actual Cost			
Principal/Managerial			19.50	\$752.13			
Professional/Technical			352.25	\$11,329.11			
Support			15.25	\$202.76			
Totals			387.00	\$12,284.00			
Total Actual Labor Costs x 3					\$36,851.99		
2. FIXED RATE COSTS (List by category - attach recap)				Actual Cost			
Equipment Rental				\$0.00			
Per Diem (meals only, with documented overnight stay)				\$820.00			
Mileage				\$7,526.90			
Other				\$27,396.25			
Total Fixed Rate Costs					\$35,743.15		
3. OTHER DIRECT COSTS (List by category - attach recap)				Actual Cost			
Lodging				\$1,957.41			
Laboratory				\$2,542.00			
Subcontracts				\$37,256.05			
Supplies				\$0.00			
Other				\$1,090.71			
Total Other Direct Costs					\$42,846.17		
4. Reimbursement Preparation Cost for RA#(s) _____ (\$500 or \$1000)						\$1,000.00	
5. TOTAL ACTUAL COSTS (Labor + Fixed Costs + Other Direct Costs +RA Prep)						\$116,441.31	
6. Markup on Total Other Direct Costs (maximum 20%)						\$7,801.25	
7. TOTAL CLAIM AMOUNT (Enter total amount claimed for reimbursement)						\$124,242.56	
A. Total Reimbursement Requested to Date Including Above:						\$124,242.56	
B. Less Amount Deductible (\$25,000, \$15,000, or \$7,500)						\$7,500.00	
C. Less Amount Previously Retained/Disallowed by RST:						\$0.00	
D. Less Amount Previously Received (Reimbursed by ADEQ):						\$0.00	
E. Amount of this Request (same as line 7 above unless it is the 1st Request):						\$116,742.56	

Interim Request No.	01	Page 5 of 16				
Consultant /Responsible Party: SEMS, Inc. / Flash Market # 354						
Facility Identification # 25-0001616 Facility Name: 0						
Dates costs incurred:		From	10/01/15	to	01/31/17	Request date: 03/31/17
DIRECT LABOR COST DETAIL						
DATE	INVOICE #	EMPLOYEE NAME	WORK PLAN TASK	HOURS	RATE	AMOUNT
PROFESSIONAL/TECHNICAL:						
07/19/16	48960	Brent Wooster	MDPE # 01	3.00	\$18.72	\$56.16
07/20/16	48960	Brent Wooster	MDPE # 01	14.00	\$18.72	\$262.08
08/17/16	48960	Roger Paulson	MDPE # 02	1.00	\$37.98	\$37.98
08/17/16	48960	Charles Morris	MDPE # 02	16.75	\$19.95	\$334.16
08/18/16	48960	Charles Morris	MDPE # 02	4.00	\$19.95	\$79.80
07/19/16	48960	Roger Paulson	MDPE # 01 - Reporting	2.00	\$37.98	\$75.96
07/26/16	48960	Roger Paulson	MDPE # 01 - Reporting	5.00	\$37.98	\$189.90
08/02/16	48960	Roger Paulson	MDPE # 02 - Reporting	2.00	\$37.98	\$75.96
08/15/16	48960	Roger Paulson	MDPE # 02 - Reporting	1.00	\$37.98	\$37.98
08/19/16	48960	Roger Paulson	MDPE # 02 - Reporting	4.00	\$37.98	\$151.92
09/14/16	49144	Brent Wooster	MDPE # 03	5.50	\$18.72	\$102.96
09/15/16	49111	Brent Wooster	MDPE # 03	14.00	\$18.72	\$262.08
09/15/16	49315	Roger Paulson	Work Plan Prep	2.00	\$37.98	\$75.96
09/16/16	49315	Roger Paulson	Work Plan Prep	2.00	\$37.98	\$75.96
09/27/16	49315	Roger Paulson	Work Plan Prep	2.00	\$37.98	\$75.96
10/03/16	49315	Roger Paulson	Work Plan Prep	8.00	\$37.98	\$303.84
10/04/16	49315	Roger Paulson	Work Plan Prep	4.00	\$37.98	\$151.92
10/05/16	49315	Roger Paulson	Work Plan Prep	4.00	\$37.98	\$151.92
10/06/16	49315	Roger Paulson	Work Plan Prep	3.50	\$37.98	\$132.93
10/07/16	49315	Roger Paulson	Work Plan Prep	3.50	\$37.98	\$132.93
10/23/16	49315	Brent Wooster	MDPE # 04	4.00	\$18.72	\$74.88
10/24/16	49315	Brent Wooster	MDPE # 04	12.50	\$18.72	\$234.00
10/24/16	49315	San Saldivar	MDPE # 04	1.00	\$21.00	\$21.00
11/30/16	49591	Roger Paulson	MDPE # 05	0.50	\$37.98	\$18.99
10/31/16	49591	Roger Paulson	MDPE # 04 - Reporting	1.00	\$37.98	\$37.98
11/01/16	49591	Roger Paulson	MDPE # 04 - Reporting	2.00	\$37.98	\$75.96
11/02/16	49591	Roger Paulson	MDPE # 04 - Reporting	2.00	\$37.98	\$75.96
11/09/16	49591	Roger Paulson	MDPE # 04 - Reporting	5.00	\$37.98	\$189.90
11/30/16	49591	Roger Paulson	Field Investigation	0.50	\$37.98	\$18.99
12/11/16	49783	Roger Paulson	MDPE # 05	1.00	\$37.98	\$37.98
12/12/16	49783	Roger Paulson	MDPE # 05	16.75	\$37.98	\$636.17
12/13/16	49783	Roger Paulson	MDPE # 05	0.50	\$37.98	\$18.99
ADDITIONAL PROF/TECH COSTS (from the Extra Direct Labor Page):				204.25		\$7,119.95
TOTAL PROFESSIONAL/TECHNICAL COSTS:				352.25		\$11,329.11

Interim Request No.	01	Page		of		
Consultant /Responsible Party: SEMS, Inc. / Flash Market # 354						
Facility Identification # 25-0001616		Facility Name: 0				
Dates costs incurred: From 10/01/15 to 01/31/17		Request date:		03/31/17		
EXTRA DIRECT LABOR COST DETAIL						
DATE	INVOICE #	EMPLOYEE NAME	WORK PLAN TASK	HOURS	RATE	AMOUNT
Duplicate this page as needed to record each type of Direct Labor						
12/19/16	49783	Roger Paulson	MDPE # 05	5.00	\$37.98	\$189.90
01/19/17	49970	Roger Paulson	MDPE # 06	13.50	\$38.94	\$525.69
01/18/17	49970	Brent Wooster	MDPE # 06	6.00	\$19.44	\$116.64
01/06/17	49970	Roger Paulson	Field Investigation	4.00	\$38.94	\$155.76
01/08/17	49970	Roger Paulson	Field Investigation	3.00	\$38.94	\$116.82
01/09/17	49970	Roger Paulson	Field Investigation	9.00	\$38.94	\$350.46
01/10/17	49970	Roger Paulson	Field Investigation	12.75	\$38.94	\$496.49
01/11/17	49970	Roger Paulson	Field Investigation	10.50	\$38.94	\$408.87
01/12/17	49970	Roger Paulson	Field Investigation	11.25	\$38.94	\$438.08
01/13/17	49970	Roger Paulson	Field Investigation	14.00	\$38.94	\$545.16
01/16/17	49970	Roger Paulson	Field Investigation	11.25	\$38.94	\$438.08
01/17/17	49970	Roger Paulson	Field Investigation	10.75	\$38.94	\$418.61
01/18/17	49970	Roger Paulson	Field Investigation	10.25	\$38.94	\$399.14
01/20/17	49970	Roger Paulson	Field Investigation	2.00	\$38.94	\$77.88
01/12/17	49970	Brent Wooster	Field Investigation	3.00	\$19.44	\$58.32
01/25/17	49970	Brent Wooster	Field Investigation	2.00	\$19.44	\$38.88
01/26/17	49970	Brent Wooster	Field Investigation	14.50	\$19.44	\$281.88
02/15/17	50514	Roger Paulson	Waste Management	1.00	\$38.94	\$38.94
02/07/17	50514	Roger Paulson	MDPE # 04 Data Eval	1.00	\$38.94	\$38.94
02/07/17	50514	Roger Paulson	MDPE # 05 Data Eval	1.00	\$38.94	\$38.94
02/06/17	50514	Roger Paulson	MDPE # 06 Data Eval	3.00	\$38.94	\$116.82
02/07/17	50514	Roger Paulson	MDPE # 06 Data Eval	3.00	\$38.94	\$116.82
02/01/17	50514	Roger Paulson	Field Investigation	0.50	\$38.94	\$19.47
02/02/17	50514	Roger Paulson	Field Investigation	0.50	\$38.94	\$19.47
02/01/17	50514	Brent Wooster	Field Investigation	5.00	\$19.44	\$97.20
02/02/17	50514	Brent Wooster	Field Investigation	12.00	\$19.44	\$233.28
02/16/17	50514	Roger Paulson	Site Assessment Report	2.00	\$38.94	\$77.88
02/17/17	50514	Roger Paulson	Site Assessment Report	6.00	\$38.94	\$233.64
02/22/17	50514	Roger Paulson	Site Assessment Report	8.00	\$38.94	\$311.52
02/24/17	50514	Roger Paulson	Site Assessment Report	6.50	\$38.94	\$253.11
02/27/17	50514	Roger Paulson	Site Assessment Report	2.00	\$38.94	\$77.88
03/03/17	50514	Roger Paulson	Site Assessment Report	2.00	\$38.94	\$77.88
03/07/17	50514	Roger Paulson	Site Assessment Report	4.00	\$38.94	\$155.76
03/09/17	50514	Roger Paulson	Site Assessment Report	4.00	\$38.94	\$155.76
Manually enter these totals on the corresponding "Direct Labor" page:				204.25		\$7,119.95

Interim Request No.	01	Page 6 of 16				
Consultant /Responsible Party: SEMS, Inc. / Flash Market # 354						
Facility Identification # 25-0001616		Facility Name: 0				
Dates costs incurred:		From	10/01/15	to	01/31/17	Request date: 03/31/17
DIRECT LABOR COST DETAIL						
DATE	INVOICE #	EMPLOYEE NAME	WORK PLAN TASK	HOURS	RATE	AMOUNT
SUPPORT:						
10/10/16	49315	Matthew Murphy	Work Plan Prep	1.00	\$12.00	\$12.00
02/24/17	50514	Yvette Murphy	MDPE # 04	0.50	\$21.88	\$10.94
02/24/17	50514	Yvette Murphy	MDPE # 05	0.50	\$21.88	\$10.94
02/24/17	50514	Yvette Murphy	MDPE # 06	0.50	\$21.88	\$10.94
02/24/17	50514	Yvette Murphy	Work Plan Prep	0.50	\$21.88	\$10.94
01/25/17	50514	Matthew Murphy	Site Assessment Report	0.50	\$12.00	\$6.00
01/26/17	50514	Matthew Murphy	Site Assessment Report	2.50	\$12.00	\$30.00
01/27/17	50514	Matthew Murphy	Site Assessment Report	2.50	\$12.00	\$30.00
02/02/17	50514	Matthew Murphy	Site Assessment Report	0.25	\$12.00	\$3.00
02/05/17	50514	Matthew Murphy	Site Assessment Report	2.00	\$12.00	\$24.00
02/14/17	50514	Matthew Murphy	Site Assessment Report	2.00	\$12.00	\$24.00
02/21/17	50514	Matthew Murphy	Site Assessment Report	0.75	\$12.00	\$9.00
02/22/17	50514	Matthew Murphy	Site Assessment Report	1.75	\$12.00	\$21.00
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Interim Request No.	01	Page 9 of 16			
Consultant /Responsible Party:		SEMS, Inc. / Flash Market # 354			
Facility Identification # 25-0001616		Facility Name: 0			
Dates costs incurred:		From 10/01/15	to 01/31/17	Request date: 03/31/17	
FIXED RATE COSTS DETAIL					
DATE	INVOICE#	ROUTE AND WORK PLAN TASK	# OF MILES	RATE	AMOUNT
MILEAGE:					
07/19/16	49860	B. Wooster - Memphis, TN to Glencoe, AR	✓ 165.00	\$0.70	\$115.50
07/20/16	49860	B. Wooster - Glencoe, AR to Memphis, TN	✓ 165.00	\$0.70	\$115.50
07/20/16	49860	C. Robinson - Vac Truck - Mob/Demob	✓ 425.00	\$2.00	\$850.00
08/17/16	49860	C. Morris - Memphis, TN to Glencoe, AR	✓ 165.00	\$0.70	\$115.50
08/18/16	49860	C. Morris - Glencoe, AR to Memphis, TN	✓ 165.00	\$0.70	\$115.50
08/17/16	49860	S. Saldivar - Vac Truck - Mob/Demob	✓ 425.00	\$2.00	\$850.00
09/14/16	49144	B. Wooster - Memphis, TN to Glencoe, AR	✓ 165.00	\$0.70	\$115.50
09/15/16	49144	B. Wooster - Glencoe, AR to Memphis, TN	✓ 165.00	\$0.70	\$115.50
09/15/16	49144	R. Saldivar - Vac Truck - Mob/Demob	✓ 425.00	\$2.00	\$850.00
10/23/16	49315	B. Wooster - Memphis, TN to Glencoe, AR	✓ 162.00	\$0.70	\$113.40
10/24/16	49315	B. Wooster - Glencoe, AR to Memphis, TN	✓ 162.00	\$0.70	\$113.40
10/24/16	49315	S. Saldivar - Vac Truck - Mob/Demob	✓ 425.00	\$2.00	\$850.00
12/12/16	49783	S. Saldivar - Vac Truck - Mob/Demob	✓ 425.00	\$2.00	\$850.00
12/11/16	49783	R. Paulson - Memphis, TN to Glencoe, AR	✓ 162.00	\$0.70	\$113.40
12/12/16	49783	R. Paulson - Glencoe, AR to Memphis, TN	✓ 163.00	\$0.70	\$114.10
01/18/17	49970	B. Wooster - Memphis, TN to Glencoe, AR	✓ 162.00	\$0.70	\$113.40
01/18/17	49970	B. Wooster - Glencoe, AR to Memphis, TN	✓ 162.00	\$0.70	\$113.40
01/19/17	49970	S. Saldivar - Vac Truck - Mob/Demob	✓ 425.00	\$2.00	\$850.00
01/08/17	49970	R. Paulson	✓ 175.00	\$0.70	\$122.50
01/09/17	49970	R. Paulson	✓ 16.00	\$0.70	\$11.20
01/10/17	49970	R. Paulson	✓ 16.00	\$0.70	\$11.20
01/11/17	49970	R. Paulson	✓ 16.00	\$0.70	\$11.20
01/12/17	49970	B. Wooster	✓ 40.00	\$0.70	\$28.00
01/12/17	49970	R. Paulson	✓ 16.00	\$0.70	\$11.20
01/13/17	49970	R. Paulson	✓ 175.00	\$0.70	\$122.50
01/16/17	49970	R. Paulson	✓ 187.00	\$0.70	\$130.90
01/17/17	49970	R. Paulson	✓ 40.00	\$0.70	\$28.00
01/18/17	49970	R. Paulson	✓ 40.00	\$0.70	\$28.00
01/19/17	49970	R. Paulson	✓ 187.00	\$0.70	\$130.90
01/26/17	49970	B. Wooster	✓ 240.00	\$0.70	\$168.00
02/01/17	50514	B. Wooster	✓ 178.00	\$0.70	\$124.60
02/02/17	50514	B. Wooster	✓ 178.00	\$0.70	\$124.60
ADDITIONAL MILEAGE COSTS (from the Extra Fixed Rate Costs page):					\$0.00
TOTAL MILEAGE COSTS:					\$7,526.90

Interim Request No.	01	Page 10 of 16					
Consultant /Responsible Party:		SEMS, Inc. / Flash Market # 354					
Facility Identification #		25-0001616		Facility Name: 0			
Dates costs incurred:		From	10/01/15	to	01/31/17	Request date:	03/31/17
FIXED RATE COSTS DETAIL							
DATE	INVOICE#	DESCRIPTION AND WORK PLAN TASK				AMOUNT	
OTHER:							
07/20/16	49860	King Vac - Vac Truck - 10 hours @ \$135.00				\$1,350.00	
08/17/16	49860	King Vac - Vac Truck - 10 hours @ \$135.00				\$1,350.00	
09/15/16	49144	King Vac - Vac Truck - 10 hours @ \$135.00				\$1,350.00	
09/15/16	49144	Oil Water Interface Probe - 1 @ \$50.00				\$50.00	
09/15/16	49144	Velocity Meter - 1 @ \$45.00				\$45.00	
10/01/16	49144	King Vac - Vac Truck - 10 hours @ \$135.00				\$1,350.00	
10/24/16	49315	Oil Water Interface Probe - 1 @ \$50.00				\$50.00	
12/12/16	49783	Oil Water Interface Probe - 1 @ \$50.00				\$50.00	
12/12/16	49783	King Vac - Vac Truck - 10 hours @ \$135.00				\$1,350.00	
01/19/17	49970	King Vac - Vac Truck - 10 hours @ \$135.00				\$1,350.00	
01/19/17	49970	Oil Water Interface Probe - 1 @ \$50.00				\$50.00	
01/12/17	49970	Disposable Bailer - 1 @ \$5.00				\$5.00	
01/12/17	49970	Drums - 3 @ \$46.80				\$140.40	
01/26/17	49970	LDPE Tubing 1/4" - 325 feet @ \$0.18				\$58.50	
01/12/17	49970	Oil Water Interface Probe - 1 @ \$50.00				\$50.00	
01/26/17	49970	Oil Water Interface Probe - 1 @ \$50.00				\$50.00	
01/09/17	49970	Photoionization Detector - 1 @ \$60.00				\$60.00	
01/10/17	49970	Photoionization Detector - 1 @ \$60.00				\$60.00	
01/11/17	49970	Photoionization Detector - 1 @ \$60.00				\$60.00	
01/12/17	49970	Photoionization Detector - 1 @ \$60.00				\$60.00	
01/13/17	49970	Photoionization Detector - 1 @ \$60.00				\$60.00	
01/16/17	49970	Photoionization Detector - 1 @ \$60.00				\$60.00	
01/17/17	49970	Photoionization Detector - 1 @ \$60.00				\$60.00	
01/26/17	49970	Waterra Sampling Pump - 1 @ \$65.00				\$65.00	
02/02/17	50514	Oil Water Interface Probe - 1 @ \$50.00				\$50.00	
02/02/17	50514	Sampling Supplies - 1 @ \$50.00				\$50.00	
02/02/17	50514	Submersible Low Flow sampling Pump - 1 @ \$100.00				\$100.00	
ADDITIONAL OTHER FIXED RATE COSTS (from Extra Fixed Rate Costs page):						\$18,062.35	
TOTAL OTHER FIXED RATE COSTS:						\$27,396.25	
TOTAL FIXED RATE COSTS						\$35,743.15	

[illegible]

OTHER DIRECT COSTS DETAIL

SUPPLIES:

ADDITIONAL SUPPLIES COSTS (from the Extra Other Direct Costs page):	\$0.00
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TOTAL SUPPLIES COSTS:	\$0.00
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J&P Flash, Inc.
304 East Broadway
P.O. Box 2168
West Memphis, AR 72303

August 31, 2016
Project No: 240-0354
Invoice No: 48960
Invoice Total \$11,516.28

Project 240-0354 J&P Flash #354 - 8906 Hwy 62, Glencoe, AR - Free Product Recovery

Professional Services Thru August 31, 2016

Phase 02 Task 2 - Mobile Dual Phase Extraction
Task 01 MDPE # 01

Professional Personnel

	Hours	Rate	Amount	
Project Manager				
Paulson, Roger 7/20/2016	1.00	113.94	113.94	
Senior Technician				
Wooster, Brent 7/19/2016	3.00	56.16	168.48	
Wooster, Brent 7/20/2016	14.00	56.16	786.24	
Totals	18.00		1,068.66	
Total Labor				1,068.66

Consultants

Subcontract Expense				
7/21/2016 Agricultural Services, Inc.	Water Disposal - 1,500 gallons	680.00		
Total Consultants	1.2 times	680.00		816.00

Reimbursable Expenses

Misc. Expense				
7/20/2016 Capital One Credit Cards	Best Western Village Inn	84.29		
7/21/2016 Capital One Credit Cards	Holiday Inn Express Hotel & Suites Little Rock	125.36		
Total Reimbursables	1.2 times	209.65		251.58

Misc. Supply Billing

King Vac Liquid Ring				
7/20/2016	10.0 Hours @ 135.00	1,350.00		
Miles				
7/19/2016 B. Wooster	165.0 Miles @ 0.70	115.50		
7/20/2016 B. Wooster	165.0 Miles @ 0.70	115.50		
Per Diem				
7/19/2016 B. Wooster		41.00		
7/19/2016 C. Robinson		41.00		
Vac Truck (Mob/Demob)				
7/20/2016	425.0 Miles @ 2.00	850.00		
Total Misc. Supplies	1.0 times	2,513.00		2,513.00

Total this Task \$4,649.24

Task 02 MDPE # 02

Project	240-0354	Flash Market #354, Glencoe, AR	Invoice	48960
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Professional Personnel

		Hours	Rate	Amount	
Staff Engineer/Scientist/Geologist					
Paulson, Roger	8/17/2016	1.00	113.94	113.94	
Senior Technician					
Morris, Charles	8/17/2016	16.75	59.85	1,002.49	
Morris, Charles	8/18/2016	4.00	59.85	239.40	
Totals		21.75		1,355.83	
Total Labor					1,355.83

Consultants

Subcontract Expense					
8/18/2016	Agricultural Services, Inc.	Drop Charge		25.00	
8/18/2016	Agricultural Services, Inc.	Water Disposal - 1,720 gallons		722.40	
Total Consultants			1.2 times	747.40	896.88

Reimbursable Expenses

Misc. Expense					
8/18/2016	Capital One Credit Cards	Holiday Inn Little Rock Airport East		145.94	
8/18/2016	Capital One Credit Cards	Best Western Village Inn		85.97	
Total Reimbursables			1.2 times	231.91	278.29

Misc. Supply Billing

King Vac Liquid Ring					
8/17/2016		10.0 Hours @ 135.00		1,350.00	
Miles					
8/17/2016	A.Morris	165.0 Miles @ 0.70		115.50	
8/18/2016	A.Morris	165.0 Miles @ 0.70		115.50	
Per Diem					
8/16/2016	C. Morris			41.00	
8/17/2016	S. Saldivar			41.00	
Vac Truck (Mob/Demob)					
8/17/2016		425.0 Miles @ 2.00		850.00	
Total Misc. Supplies			1.0 times	2,513.00	2,513.00
Total this Task					\$5,044.00
Total this Phase					\$9,693.24

Phase	05	Task 5 - Data Evaluation/Reporting
Task	01	MDPE # 01

Professional Personnel

		Hours	Rate	Amount	
Project Manager					
Paulson, Roger	7/19/2016	1.00	113.94	113.94	
CAD Operator					
Paulson, Roger	7/19/2016	2.00	113.94	227.88	
Staff Engineer/Scientist/Geologist					
Paulson, Roger	7/26/2016	5.00	113.94	569.70	
Totals		8.00		911.52	
Total Labor					911.52
Total this Task					\$911.52

Task	02	MDPE # 02
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Project	240-0354	Flash Market #354, Glencoe, AR	Invoice	48960
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Professional Personnel

		Hours	Rate	Amount	
Project Manager					
Paulson, Roger	8/19/2016	1.00	113.94	113.94	
CAD Operator					
Paulson, Roger	8/2/2016	2.00	113.94	227.88	
Staff Engineer/Scientist/Geologist					
Paulson, Roger	8/15/2016	1.00	113.94	113.94	
Paulson, Roger	8/19/2016	4.00	113.94	455.76	
Totals		8.00		911.52	
Total Labor					911.52
			Total this Task		\$911.52
			Total this Phase		\$1,823.04
			Total this Invoice		<u><u>\$11,516.28</u></u>



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J&P Flash, Inc.
304 East Broadway
P.O. Box 2168
West Memphis, AR 72303

September 30, 2016
Project No: 240-0354
Invoice No: 49144
Invoice Total \$5,428.77

Project 240-0354 J&P Flash #354 - 8906 Hwy 62, Glencoe, AR - Free Product Recovery

Professional Services Thru September 30, 2016

Phase 02 Task 2 - Mobile Dual Phase Extraction
Task 03 MDPE # 03
MDPE # 03
Professional Personnel

	Hours	Rate	Amount
Senior Technician			
Wooster, Brent 9/14/2016	5.50	56.16	308.88
Wooster, Brent 9/15/2016	14.00	56.16	786.24
Totals	19.50		1,095.12
Total Labor			1,095.12

Reimbursable Expenses

Misc. Expense			
9/15/2016 Capital One Credit Cards	Best Western Village Inn		82.04
9/16/2016 Capital One Credit Cards	Holiday Inn Little Rock Airport East		145.94
9/20/2016 Pine Environmental Services			422.06
Total Reimbursables	1.2 times		650.04
			780.05

Misc. Supply Billing

King Vac Liquid Ring			
9/15/2016	10.0 Hours @ 135.00		1,350.00
Miles			
9/15/2016 B. Wooster	330.0 Miles @ 0.70		231.00
Oil/Water Interface Probe			
9/15/2016 B. Wooster	1.0 Each @ 50.00		50.00
Per Diem			
9/14/2016 B. Wooster	1.0 Day @ 41.00		41.00
9/15/2016 S. Saldivar	1.0 Day @ 41.00		41.00
Vac Truck (Mob/Demob)			
9/15/2016	425.0 Miles @ 2.00		850.00
Velocity Meter			
9/15/2016 B. Wooster	1.0 Day @ 45.00		45.00
Total Misc. Supplies	1.0 times		2,608.00
			2,608.00
Total this Task			\$4,483.17
Total this Phase			\$4,483.17

Phase 04 Task 4 - Waste Management

Project	240-0354	Flash Market #354, Glencoe, AR	Invoice	49144
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Consultants

Subcontract Expense

9/19/2016	Agricultural Services, Inc.	MEME #3 (Water Disposal)	598.10	
	Total Consultants	1.2 times	598.10	717.72
		Total this Phase		\$717.72

Phase	05	Task 5 - Data Evaluation/Reporting
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Task	03	MDPE # 03
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MDPE # 03

Professional Personnel

			Hours	Rate	Amount	
Project Manager						
Paulson, Roger	9/12/2016		1.00	113.94	113.94	
Paulson, Roger	9/15/2016		1.00	113.94	113.94	
Totals			2.00		227.88	
Total Labor						227.88
				Total this Task		\$227.88
				Total this Phase		\$227.88
				Total this Invoice		<u>\$5,428.77</u>



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J&P Flash, Inc.
304 East Broadway
P.O. Box 2168
West Memphis, AR 72303

October 31, 2016
Project No: 240-0354
Invoice No: 49315
Invoice Total \$8,282.88

Project 240-0354 J&P Flash #354 - 8906 Hwy 62, Glencoe, AR - Free Product Recovery
Professional Services Thru October 31, 2016

Phase 01 Task 1 - Work Plan Preparation

Professional Personnel

			Hours	Rate	Amount	
Staff Engineer/Scientist/Geologist						
Paulson, Roger	9/15/2016		2.00	113.94	227.88	
Paulson, Roger	9/16/2016		2.00	113.94	227.88	
Paulson, Roger	9/27/2016		2.00	113.94	227.88	
Paulson, Roger	10/3/2016		8.00	113.94	911.52	
Paulson, Roger	10/4/2016		4.00	113.94	455.76	
Paulson, Roger	10/5/2016		4.00	113.94	455.76	
Paulson, Roger	10/6/2016		3.50	113.94	398.79	
Paulson, Roger	10/7/2016		3.50	113.94	398.79	
Clerical						
Murphy, Matthew	10/10/2016		1.00	36.00	36.00	
Totals			30.00		3,340.26	
Total Labor						3,340.26
Total this Phase						\$3,340.26

Phase 02 Task 2 - Mobile Dual Phase Extraction

Task 04 MDPE # 04

MDPE # 04

Professional Personnel

			Hours	Rate	Amount	
Project Manager						
Paulson, Roger	10/18/2016		.50	113.94	56.97	
Paulson, Roger	10/21/2016		2.00	113.94	227.88	
Senior Technician						
Saldivar, San	10/24/2016		1.00	63.00	63.00	
Wooster, Brent	10/23/2016		4.00	56.16	224.64	
Wooster, Brent	10/24/2016		12.50	56.16	702.00	
Totals			20.00		1,274.49	
Total Labor						1,274.49

Reimbursable Expenses

Misc. Expense			
10/24/2016	Capital One Credit Cards	Best Western Village Inn	82.04
10/24/2016	Capital One Credit Cards	Best Western Village Inn	82.04

Project	240-0354	Flash Market #354, Glencoe, AR		Invoice	49315
10/25/2016	Capital One Credit Cards	Holiday Inn Little Rock Airport East		140.52	
10/27/2016	Pine Environmental Services			189.89	
	Total Reimbursables	1.2 times		494.49	593.39
Misc. Supply Billing					
King Vac Liquid Ring					
10/24/2016		10.0 Hours @ 135.00		1,350.00	
Miles					
10/23/2016	B.Wooster	162.0 Miles @ 0.70		113.40	
10/24/2016	B.Wooster	162.0 Miles @ 0.70		113.40	
Oil/Water Interface Probe					
10/24/2016	B.Wooster	1.0 Each @ 50.00		50.00	
Per Diem					
10/23/2016	B. Wooster	1.0 Day @ 41.00		41.00	
Vac Truck (Mob/Demob)					
10/24/2016		425.0 Miles @ 2.00		850.00	
	Total Misc. Supplies	1.0 times		2,517.80	2,517.80
		Total this Task			\$4,385.68
		Total this Phase			\$4,385.68

Phase	04	Task 4 - Waste Management			
Consultants					
Subcontract Expense					
10/26/2016	Agricultural Services, Inc.	986 Gallons		464.12	
	Total Consultants	1.2 times		464.12	556.94
		Total this Phase			\$556.94
		Total this Invoice			<u>\$8,282.88</u>



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SCAN

J&P Flash, Inc.
304 East Broadway
P.O. Box 2168
West Memphis, AR 72303

November 30, 2016
Project No: 240-0354
Invoice No: 49591

Invoice Total	\$1,253.34
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Project 240-0354 J&P Flash #354 - 8906 Hwy 62, Glencoe, AR - Free Product Recovery

Professional Services Thru November 30, 2016

Phase	02	Task 2 - Mobile Dual Phase Extraction
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Task	05	MDPE # 05
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MDPE # 05

Professional Personnel

			Hours	Rate	Amount	
Staff Engineer/Scientist/Geologist						
Paulson, Roger	11/30/2016		.50 ✓	113.94	56.97	
Totals			.50		56.97	
Total Labor						56.97
					Total this Task	\$56.97
					Total this Phase	\$56.97

Phase	05	Task 5 - Data Evaluation/Reporting
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Task	04	MDPE # 04
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MDPE # 04

Professional Personnel

			Hours	Rate	Amount	
Staff Engineer/Scientist/Geologist						
Paulson, Roger	10/31/2016		1.00 ✓	113.94	113.94	
Paulson, Roger	11/1/2016		2.00 ✓	113.94	227.88	
Paulson, Roger	11/2/2016		2.00 ✓	113.94	227.88	
Paulson, Roger	11/9/2016		5.00 ✓	113.94	569.70	
Totals			10.00		1,139.40	
Total Labor						1,139.40
					Total this Task	\$1,139.40
					Total this Phase	\$1,139.40

Phase	06	Task 4 - Site Assessment
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Task	4.2	Field Investigation
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Field Investigation

Project	240-0354	Flash Market #354, Glencoe, AR	Invoice	49591
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Professional Personnel

		Hours	Rate	Amount	
Staff Engineer/Scientist/Geologist					
Paulson, Roger	11/30/2016	.50	113.94	56.97	
Totals		.50		56.97	
Total Labor					56.97
			Total this Task		\$56.97
			Total this Phase		\$56.97
			Total this Invoice		<u>\$1,253.34</u>



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J&P Flash, Inc.
304 East Broadway
P.O. Box 2168
West Memphis, AR 72303

December 31, 2016

Project No: 240-0354

Invoice No: 49783

Invoice Total	\$5,873.77
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Project 240-0354 J&P Flash #354 - 8906 Hwy 62, Glencoe, AR

Professional Services Thru December 31, 2016

Phase 02 Task 2 - Mobile Dual Phase Extraction

Task 05 MDPE # 05

Professional Personnel

			Hours	Rate	Amount	
Staff Engineer/Scientist/Geologist						
Paulson, Roger	12/11/2016		1.00	113.94	113.94	
Paulson, Roger	12/12/2016		16.75	113.94	1,908.50	
Paulson, Roger	12/13/2016		.50	113.94	56.97	
Totals			18.25		2,079.41	
Total Labor						2,079.41

Reimbursable Expenses

Equipment Rental Expense						
12/22/2016	EON Products, Inc.	PID-FID Rental			139.12	
Misc. Expense						
12/29/2016	Holiday Inn				128.03	
Total Reimbursables				1.2 times	267.15	320.58

Misc. Supply Billing

King Vac Liquid Ring						
12/12/2016			10.0 Hours @ 135.00		1,350.00	
Miles						
12/12/2016	R. Paulson		325.0 Miles @ 0.70		227.50	
Oil/Water Interface Probe						
12/12/2016	R. Paulson		1.0 Each @ 50.00		50.00	
Per Diem						
12/12/2016	San Saldivar		1.0 Day @ 41.00		41.00	
Vac Truck (Mob/Demob)						
12/12/2016			425.0 Miles @ 2.00		850.00	
Total Misc. Supplies				1.0 times	2,518.50	2,518.50
Total this Task						\$4,918.49
Total this Phase						\$4,918.49

Phase 04 Task 4 - Waste Management

Project	240-0354	Flash Market #354, Glencoe, AR	Invoice	49783
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Consultants

Subcontract Expense

12/14/2016 Agricultural Services, Inc.

Water Disposal

321.32

Total Consultants

1.2 times

321.32

385.58

Total this Phase

\$385.58

Phase 05 Task 5 - Data Evaluation/Reporting

Task 05 MDPE # 05

Professional Personnel

			Hours	Rate	Amount	
Staff Engineer/Scientist/Geologist						
Paulson, Roger	12/19/2016		5.00	113.94	569.70	
Totals			5.00		569.70	
Total Labor						569.70
				Total this Task		\$569.70
				Total this Phase		\$569.70
				Total this Invoice		\$5,873.77



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J&P Flash, Inc.
304 East Broadway
P.O. Box 2168
West Memphis, AR 72303

January 31, 2017
Project No: 240-0354
Invoice No: 49970

Invoice Total	\$56,605.65
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Project 240-0354 J&P Flash #354 - 8906 Hwy 62, Glencoe, AR

Professional Services Thru January 31, 2017

Phase	02	Task 2 - Mobile Dual Phase Extraction
Task	06	MDPE # 06

Professional Personnel

		Hours	Rate	Amount	
Staff Engineer/Scientist/Geologist					
Paulson, Roger	1/19/2017	13.50	116.82	1,577.07	
Senior Technician					
Wooster, Brent	1/18/2017	6.00	58.32	349.92	
Totals		19.50		1,926.99	
Total Labor					1,926.99

Consultants

Subcontract Expense					
1/23/2017	Agricultural Services, Inc.			228.92	
Total Consultants			1.2 times	228.92	274.70

Reimbursable Expenses

Misc. Expense					
1/18/2017	Days Inn - Roger Paulson			74.90	
1/18/2017	Days Inn - Martin Saldivar	1 night		74.90	
1/19/2017	Holiday Inn - San Saldivar			139.45	
1/31/2017	EON Products, Inc.			190.79	
Total Reimbursables			1.2 times	480.04	576.05

Misc. Supply Billing

King Vac Liquid Ring					
1/19/2017		10.0 Hours @ 135.00		1,350.00	
Miles					
1/18/2017	B.Wooster	324.0 Miles @ 0.70		226.80	
Oil/Water Interface Probe					
1/19/2017		1.0 Each @ 50.00		50.00	
Per Diem					
1/18/2017	San Saldivar	1.0 Day @ 41.00		41.00	
1/19/2017	San Saldivar	1.0 Day @ 41.00		41.00	
Vac Truck (Mob/Demob)					
1/19/2017		425.0 Miles @ 2.00		850.00	
Total Misc. Supplies			1.0 times	2,558.80	2,558.80

Total this Task \$5,336.54

Project	240-0354	Flash Market #354, Glencoe, AR	Invoice	49970
			Total this Phase	\$5,130.80

Phase	06	Task 4 - Site Assessment
Task	4.2	Field Investigation

Professional Personnel

		Hours	Rate	Amount	
Staff Engineer/Scientist/Geologist					
Paulson, Roger	1/6/2017	4.00	116.82	467.28	
Paulson, Roger	1/8/2017	3.00	116.82	350.46	
Paulson, Roger	1/9/2017	9.00	116.82	1,051.38	
Paulson, Roger	1/10/2017	12.75	116.82	1,489.46	
Paulson, Roger	1/11/2017	10.50	116.82	1,226.61	
Paulson, Roger	1/12/2017	11.25	116.82	1,314.23	
Paulson, Roger	1/13/2017	14.00	116.82	1,635.48	
Paulson, Roger	1/16/2017	11.25	116.82	1,314.23	
Paulson, Roger	1/17/2017	10.75	116.82	1,255.82	
Paulson, Roger	1/18/2017	10.25	116.82	1,197.41	
Paulson, Roger	1/20/2017	2.00	116.82	233.64	
Senior Technician					
Wooster, Brent	1/12/2017	3.00	58.32	174.96	
Wooster, Brent	1/25/2017	2.00	58.32	116.64	
Wooster, Brent	1/26/2017	14.50	58.32	845.64	
Totals		118.25		12,151.27	
Total Labor					12,673.24

Consultants

Subcontract Expense					
1/30/2017	Anderson Engineering Consultants, Inc.			28,733.25	
Total Consultants		1.2 times		28,733.25	34,479.90

Reimbursable Expenses

Misc. Expense					
1/16/2017	Days Inn - Roger Paulson	2 nights		149.80	
1/16/2017	Days Inn - Roger Paulson	1 night		74.90	
1/20/2017	Cottonwood Inn - Roger Paulson	5 nights		278.69	
Total Reimbursables		1.2 times		503.39	604.07

Misc. Supply Billing

Disposable Bailers					
1/12/2017	B.Wooster	1.0 Bailer @ 5.00		5.00	
Drums					
1/26/2017	B.Wooster	3.0 Drums @ 46.80		140.40	
LDPE tubing 1/4 in					
1/26/2017	B.Wooster	325.0 feet @ 0.18		58.50	
Miles					
1/8/2017	R.Paulson	175.0 Miles @ 0.70		122.50	
1/9/2017	R.Paulson	16.0 Miles @ 0.70		11.20	
1/10/2017	R.Paulson	16.0 Miles @ 0.70		11.20	
1/11/2017	R.Paulson	16.0 Miles @ 0.70		11.20	
1/12/2017	B.Wooster	40.0 Miles @ 0.70		28.00	
1/12/2017	R.Paulson	16.0 Miles @ 0.70		11.20	
1/13/2017	R.Paulson	175.0 Miles @ 0.70		122.50	
1/16/2017	R.Paulson	187.0 Miles @ 0.70		130.90	
1/17/2017	R.Paulson	40.0 Miles @ 0.70		28.00	
1/18/2017	R.Paulson	40.0 Miles @ 0.70		28.00	
1/19/2017	R.Paulson	187.0 Miles @ 0.70		130.90	
1/26/2017	B.Wooster	240.0 Miles @ 0.70		168.00	

Project	240-0354	Flash Market #354, Glencoe, AR	Invoice	49970
Oil/Water Interface Probe				
1/12/2017	B.Wooster	1.0 Each @ 50.00	50.00	
1/26/2017	B.Wooster	1.0 Each @ 50.00	50.00	
Per Diem				
1/12/2017	Roger Paulson 01/08/17 thru 01/12/17	5.0 Days @ 41.00	205.00	
1/16/2017	Roger Paulson	1.0 Day @ 41.00	41.00	
1/17/2017	Roger Paulson	1.0 Day @ 41.00	41.00	
1/18/2017	Roger Paulson	1.0 Day @ 41.00	41.00	
1/27/2017	Brent Wooster	1.0 Day @ 41.00	41.00	
Photoionization Detector				
1/9/2017	R.Paulson	1.0 Day @ 60.00	60.00	
1/10/2017	R.Paulson	1.0 Day @ 60.00	60.00	
1/11/2017	R.Paulson	1.0 Day @ 60.00	60.00	
1/12/2017	R.Paulson	1.0 Day @ 60.00	60.00	
1/13/2017	R.Paulson	1.0 Day @ 60.00	60.00	
1/16/2017	R.Paulson	1.0 Day @ 60.00	60.00	
1/17/2017	R.Paulson	1.0 Day @ 60.00	60.00	
Waterra Sampling Pump				
1/26/2017	B.Wooster	1.0 Day @ 65.00	65.00	
	Total Misc. Supplies	1.0 times	1,961.50	1,961.50
Total this Task				\$49,718.71

Task 4.3 Sample Analysis

Consultants

Analytical Expense

1/19/2017	ESC Lab Sciences	522.00	
1/23/2017	ESC Lab Sciences	325.00	
1/25/2017	ESC Lab Sciences	250.00	
1/31/2017	ESC Lab Sciences	195.00	
	Total Consultants	1.2 times	1,292.00

1,550.40

Total this Task \$1,550.40

Total this Phase \$50,747.14

Total this Invoice \$56,605.65



11628 S. Choctaw Drive
 Baton Rouge, LA 70815
 (225) 924-2002
 FID #721224185

ACH Payments Email Remit AR@SEMSINC.NET
 ABA#065405420 ACT#: 80030025680

J&P Flash, Inc.
 304 East Broadway
 P.O. Box 2168
 West Memphis, AR 72303

March 31, 2017
 Project No: 240-0354
 Invoice No: 50514
Invoice Total \$16,987.52

Project 240-0354 J&P Flash #354 - 8906 Hwy 62, Glencoe, AR

Professional Services Thru March 31, 2017

Phase	02	Task 2 - Mobile Dual Phase Extraction
Task	04	MDPE # 04

Professional Personnel

			Hours	Rate	Amount	
Clerical						
Murphy, Yvette	2/24/2017		.50	65.64	32.82	
Totals			.50		32.82	
Total Labor						32.82
Total this Task						\$32.82

Task	05	MDPE # 05
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Professional Personnel

			Hours	Rate	Amount	
Clerical						
Murphy, Yvette	2/24/2017		.50	65.64	32.82	
Totals			.50		32.82	
Total Labor						32.82
Total this Task						\$32.82

Task	06	MDPE # 06
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Professional Personnel

			Hours	Rate	Amount	
Clerical						
Murphy, Yvette	2/24/2017		.50	65.64	32.82	
Totals			.50		32.82	
Total Labor						32.82
Total this Phase						\$32.82

Project	240-0354	J&P Flash #354 - Glencoe, AR	Invoice	50514	
Phase	04	Task 4 - Waste Management			
Professional Personnel					
			Hours	Rate	Amount
Staff Engineer/Scientist/Geologist					
Paulson, Roger	2/15/2017		1.00	116.82	116.82
Totals			1.00		116.82
Total Labor					116.82
				Total this Phase	\$116.82
Phase	05	Task 5 - Data Evaluation/Reporting			
Task	04	MDPE # 04			
Professional Personnel					
			Hours	Rate	Amount
Staff Engineer/Scientist/Geologist					
Paulson, Roger	2/7/2017		1.00	116.82	116.82
Totals			1.00		116.82
Total Labor					116.82
				Total this Task	\$116.82
Task	05	MDPE # 05			
Professional Personnel					
			Hours	Rate	Amount
Staff Engineer/Scientist/Geologist					
Paulson, Roger	2/7/2017		1.00	116.82	116.82
Totals			1.00		116.82
Total Labor					116.82
				Total this Task	\$116.82
Task	06	MDPE # 06			
Professional Personnel					
			Hours	Rate	Amount
Staff Engineer/Scientist/Geologist					
Paulson, Roger	2/6/2017		3.00	116.82	350.46
Paulson, Roger	2/7/2017		3.00	116.82	350.46
Totals			6.00		700.92
Total Labor					700.92
				Total this Task	\$700.92
				Total this Phase	\$934.56
Phase	06	Task 4 - Site Assessment			
Task	4.1	Work Plan Preparation			
Professional Personnel					
			Hours	Rate	Amount
Clerical					
Murphy, Yvette	2/24/2017		.50	65.64	32.82
Totals			.50		32.82
Total Labor					32.82
				Total this Task	\$32.82
Task	4.2	Field Investigation			

Project	240-0354	J&P Flash #354 - Glencoe, AR	Invoice	50514
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Professional Personnel

			Hours	Rate	Amount	
Staff Engineer/Scientist/Geologist						
Paulson, Roger	2/1/2017		.50	116.82	58.41	
Paulson, Roger	2/2/2017		.50	116.82	58.41	
Senior Technician						
Wooster, Brent	2/1/2017		5.00	58.32	291.60	
Wooster, Brent	2/2/2017		12.00	58.32	699.84	
Totals			18.00		1,108.26	
Total Labor						1,108.26

Consultants

Subcontract Expense						
2/20/2017	Keen Surveying LLC				1,200.00	
Total Consultants			1.2 times		1,200.00	1,440.00

Reimbursable Expenses

Misc. Expense						
2/2/2017	Days Inn Hardy AR	B Wooster			62.60	
2/9/2017	EON Products, Inc.				124.72	
Total Reimbursables			1.2 times		187.32	224.78

Misc. Supply Billing

Miles						
2/1/2017	B.Wooster		178.0 Miles @ 0.70		124.60	
2/2/2017	B.Wooster		178.0 Miles @ 0.70		124.60	
Oil/Water Interface Probe						
2/2/2017	B.Wooster		1.0 Each @ 50.00		50.00	
Per Diem						
2/2/2017	B. Wooster		1.0 Day @ 41.00		41.00	
Sampling Supplies						
2/2/2017	B.Wooster		1.0 Each @ 50.00		50.00	
Submersible Low Flow Sampling Pump						
2/2/2017	B.Wooster		1.0 day @ 100.00		100.00	
Total Misc. Supplies			1.0 times		490.20	490.20
Total this Task						\$3,263.24

Task	4.3	Sample Analysis				
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Consultants

Analytical Expense						
2/9/2017	ESC Lab Sciences				1,240.00	
Total Consultants			1.2 times		1,240.00	1,488.00
Total this Task						\$1,488.00

Task	4.4	Investigation Derived Waste Management				
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Consultants

Subcontract Expense						
2/27/2017	RAMCO				4,282.94	
Analytical Expense						
2/15/2017	ESC Lab Sciences				10.00	
Total Consultants			1.2 times		4,292.94	5,151.53
Total this Task						\$5,151.53

Task	4.5	Reporting - Site Assessment Report				
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Project	240-0354	J&P Flash #354 - Glencoe, AR	Invoice	50514
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Professional Personnel

		Hours	Rate	Amount	
Staff Engineer/Scientist/Geologist					
Paulson, Roger	2/16/2017	2.00	116.82	233.64	
Paulson, Roger	2/17/2017	6.00	116.82	700.92	
Paulson, Roger	2/22/2017	8.00	116.82	934.56	
Paulson, Roger	2/24/2017	6.50	116.82	759.33	
Paulson, Roger	2/27/2017	2.00	116.82	233.64	
Paulson, Roger	3/3/2017	2.00	116.82	233.64	
Paulson, Roger	3/7/2017	4.00	116.82	467.28	
Paulson, Roger	3/9/2017	4.00	116.82	467.28	
Paulson, Roger	3/10/2017	4.00	116.82	467.28	
Paulson, Roger	3/20/2017	3.00	116.82	350.46	
Paulson, Roger	3/22/2017	5.00	116.82	584.10	
Clerical					
Murphy, Matthew	1/25/2017	.50	36.00	18.00	
Murphy, Matthew	1/26/2017	2.50	36.00	90.00	
Murphy, Matthew	1/27/2017	2.50	36.00	90.00	
Murphy, Matthew	2/2/2017	.25	36.00	9.00	
Murphy, Matthew	2/5/2017	2.00	36.00	72.00	
Murphy, Matthew	2/14/2017	2.00	36.00	72.00	
Murphy, Matthew	2/21/2017	.75	36.00	27.00	
Murphy, Matthew	2/22/2017	1.75	36.00	63.00	
Totals		58.75		5,873.13	
Total Labor					5,873.13

Reimbursable Expenses

Misc. Expense					
3/29/2017	Federal Express			24.13	
Total Reimbursables		1.2 times	24.13		28.96
Total this Task					\$5,902.09
Total this Phase					\$15,837.68
Total this Invoice					<u>\$16,987.52</u>

SCANNED



11628 S. Choctaw Drive
Baton Rouge, LA 70815
(225) 924-2002
FID #721224185

ACH Payments Email Remit AR@SEMSINC.NET
ABA#065405420 ACT#: 80030025680

J&P Flash, Inc.
304 East Broadway
P.O. Box 2168
West Memphis, AR 72303

March 30, 2017
Project No: 240-0354
Invoice No: 50341

Invoice Total	\$1,000.00
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Project 240-0354 J&P Flash #354 - 8906 Hwy 62, Glencoe, AR

Professional Services Thru March 31, 2017

Phase	1258	Reimbursement Request - Report
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Task	04	Office
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Misc. Supply Billing

Preparation Costs More Than \$50,000.00
3/30/2017

Total Misc. Supplies

1.0 Unit @ 1,000.00	1,000.00	
1.0 times	1,000.00	1,000.00
Total this Task		\$1,000.00
Total this Phase		\$1,000.00
Total this Invoice		<u>\$1,000.00</u>

ADEQ

ARKANSAS
Department of Environmental Quality

MEMORANDUM

TO: ^{Bridget} Wanda Páes, Trust Fund Manager,
Petroleum Tanks Program, Office of Land Resources

THROUGH: Daniel Clanton, P.E., Technical Branch Manager, ^{7/5/17}
David Frazier, P.G., Geologist Supervisor ^{DTF 7/5/17}
PTP OLR

FROM: Mikel R. Shinn, P.G., Professional Geologist, PTP OLR ^{MR.S}

DATE: July 3, 2017

SUBJECT: **Technical Review of Trust Fund Reimbursement Application #1**
Flash Market #354
6906 Highway 412
Glencoe, Arkansas
LUST Case #25-0009 ID #25001616 AFIN #25-00315

The Petroleum Tanks Program received the initial APSTTF reimbursement application for the subject site (prepared by Southern Environmental Management & Specialties, Inc., (SEMS) on June 27, 2017. The Responsible Party (J&P Flash, Inc.) has requested reimbursement for a total of \$116,742.56 in corrective action expenses (after application of the \$7,500.00 deductible). The time period during which expenses were incurred was October 1, 2015 through January 31, 2017.

1) STATUS OF THE RELEASE

- a. At which step in the Subpart F process is the LUST case, i.e., Site Investigation, CAP or FP Removal? - Initial site assessment has been completed, along with effective interim free product removal. Additional assessment work may be required, before an Exposure Assessment can be completed by PTP.
- b. If the remedy has been selected, what are the cleanup goals? Identify any issues that may delay progress or resolution of the case. - Cleanup goals have not been established and no remedy has been selected.
- c. With the exception of investigation-derived wastes, if contaminated soil or ground water has been removed from the site, describe the quantity and type of contamination removed. - A total of approximately 6,583 gallons of contaminated ground water, 20 gallons of non-aqueous phase liquid gasoline and 193 gallons of vapor-equivalent gasoline were removed during six mobile dual phase extraction (MDPE) events conducted at the UST tankhold from July 2016 through January 2017. Several hundred gallons of contaminated water and product had previously been removed and disposed immediately after LUST

confirmation in 2015. Critically, the recovery efforts to date appear to have successfully reduced free product within the UST tankhold to minor amounts.

2) REIMBURSEMENT APPLICATION

- a. Briefly describe the activities for which reimbursement is requested and the specific work plan(s) or change order(s) (cost approvals) under which the activities were authorized. – J&P Flash, Inc. is requesting reimbursement for:
1) Initial efforts to locate the source of the release discovered by ADEQ on 4/6/15, involving line and tank tightness tests performed by Scott's Underground Construction Company on 4/15/15 and 9/24/15 and free product removal operations by Scott's on 10/1/15. These activities were performed without submittal and approval of workplans and cost estimates. 2) Performance and reporting of an *Initial Site Characterization* by J&P Flash's original consultant Environmental Pollution Consultants, Inc. (EPC) in 2015, with IDW disposal in 2016. No workplan and cost estimate were submitted for these activities. 3) Preparation and submittal (on 6/20/16) of a *Revised Free Product Removal Work Plan and Cost Estimate* by EPC. The plan was approved by PTP on 6/28/16 in the amount of **\$54,651.00** and was implemented by J&P Flash's second consultant (SEMS, Inc.) from July 2016 through January 2017. A series of six monthly reports of MDPE events were submitted, with the last received on 2/27/17. 4) Preparation, submittal (on 10/12/16) and implementation by SEMS of a *Site Assessment Work Plan & Cost Estimate*, approved by PTP on 11/8/16 in the amount of **\$55,543.81**. A *Request for Change Order #1* to the plan was submitted on 3/9/17 and approved for an additional **\$18,870.52** on 3/14/17. A *Site Assessment Report* was submitted on 3/23/17.
- b. Identify any activity that may conflict with Reg. 12 or that was not approved by the Technical Branch. – None noted.
- c. If you do not agree with the consultant's project summary, state the areas of disagreement. If the consultant's summary is incomplete or no summary is provided, give a brief history of the project to date. – SEMS has provided an adequate summary of the project work completed during the application period.

3) MAPS AND GRAPHS

- a. If not provided by the consultant in the application, please attach site maps that identify the location of the site and the area of the release within the site. – Adequate site maps are included in SEMS' project summary.
- b. Include any data and/or graphs that illustrate relevant environmental information in support of your summary. – No additional data and/or graphs have been generated.

cc: LUST Case #25-0009 file

PROJECT SUMMARY

Flash Market #354

6906 Highway 412

Glencoe, Fulton County, Arkansas

Facility ID #25001616; AFIN #25-00315

LUST Case #25-0009

April 6, 2015 through March 31, 2017

Release Date: April 6, 2015

Reports Submitted During This Time Period

Initial Site Characterization Report (EPC, Inc.), November 16, 2015
Free Product Removal Work Plan and Cost Estimate (EPC, Inc.), June 24, 2016
Mobile Dual Phase Extraction Event No. 1 Letter Report, August 22, 2016
Mobile Dual Phase Extraction Event No. 2 Letter Report, August 22, 2016
Mobile Dual Phase Extraction Event No. 3 Letter Report, September 21, 2016
Site Assessment Work Plan and Cost Estimate, October 10, 2016
Mobile Dual Phase Extraction Event No. 4 Letter Report, October 24, 2016
Mobile Dual Phase Extraction Event No. 5 Letter Report, February 23, 2016
Mobile Dual Phase Extraction Event No. 6 Letter Report, February 23, 2016
Site Assessment Report, March 20, 2017

1.0 INTRODUCTION

1.1 SITE BACKGROUND

The site is located at 6906 Highway 412/62, City of Glencoe, Fulton County, Arkansas. The geographical coordinates of the property are 36° 17' 36.4" N and 91° 44' 13.4" W. An area location map is provided as Figure 1. The site is located on the north side of US Highway 412/62, approximately 400 feet east of the intersection with Fulton County Highway 61 and 600 feet east of the intersection of Arkansas Highway 289. The adjacent properties are characterized as rural, with commercial and residential properties. Site drinking water is supplied by the Fulton County Water Authority.

The nearest residence is located 250 feet to the northwest, in the presumed up-gradient direction. The Phillip Eversole residence, located 635 feet from the site and topographically downgradient, utilizes the Cotter Dolostone as potable water. A topographic map is offered as Figure 2. A site map is offered as Figure 3.

1.2 RELEASE DESCRIPTION

The site contains two 10,000-gallon composite (steel with fiberglass exterior) USTs installed in July 2000. Both tanks are divided into compartments. Tank #1 contains a 5000-gallon highway diesel compartment and a 5000-gallon premium gasoline compartment. Tank #2 is divided into a 2000-gallon off-road diesel compartment and an 8000-gallon unleaded regular compartment.

On April 6, 2015, an ADEQ regulator noted minor amounts of free product in the four tank hold observation wells. The tanks were tank tightness tested on April 15, 2015 and tested tight. The free product in the tank hold was removed with absorbent pads, but the free product later returned. On August 20, 2015, a second precision line test was conducted and indicated a "leak rate within tolerance." On August 21, 2015, a helium test located the active leak. The test indicated a "failure in the steel braid flex hose between unleaded sub pump and fiberglass piping." The flex connector was replaced and the line retested "tight."

1.3 REGIONAL GEOLOGY

The study area is located within the Salem Plateau. Based on the Geologic Map of Arkansas by Haley, B., et al., 1993, the Cotter and Jefferson City dolomites crop out near the site. The site is underlain by the Cotter Dolomite and the Jefferson City Dolomite.

The Cotter Dolomite is composed of dolostone of predominantly two types: a fine-grained, argillaceous, earthy textured, relatively soft, white to buff or gray dolostone called "cotton rock", and a more massive, medium-grained, gray dolostone that weathers to a somewhat hackly surface texture and becomes dark on exposure. The formation contains chert, some minor beds of greenish shale, and occasional thin interbedded sandstone. The chert nodules associated with the Cotter frequently have concentric light and dark bands. The fossils known from the Cotter Dolomite are rare, but include gastropods, cephalopods, and reef-building algae.

The Jefferson City Dolomite consists of light- to dark-tan, fine-grained, crystalline dolostone and considerable chert with some rare thin beds of sandstone, shale, and oolite. Few fossils are known from the formation. The Jefferson City Dolomite unconformably overlies the Roubidoux Formation. This lower contact is not exposed in Arkansas. The Jefferson City Formation has not been successfully differentiated from the Cotter Formation in Arkansas. The Jefferson City Dolomite is Early Ordovician in age.

To date, there has been no success in differentiating the Cotter Formation from the Jefferson City Formation in Arkansas, although the contact is considered disconformable. The thickness is about 340 feet near Cotter, but the interval may range up to 500 feet thick in places. The Cotter Dolomite is Early Ordovician in age (McFarland, 1998).

1.4 SITE GEOLOGY

Soils overlaying bedrock consist of brown to red clay with some silt and angular chert, and regolith consisting of red and brown clays and dolostone fragments. Bedrock consists of the Cotter Dolomite. The depth to bedrock varies across the site. Depth to bedrock north of the tank hold ranged from 25 to 28.5 feet. Depth to bedrock south of the tank hold ranged from 55 to depths greater than 60 feet.

1.5 REGIONAL HYDROGEOLOGY

Surrounding properties depend upon the Cotter Dolomite/Jefferson City Formation for groundwater. Water wells range in yield from 1 to 50 gpm. Well yields are dependent on secondary porosity.

1.6 SITE HYDROGEOLOGY

Shallow groundwater occurs under confined conditions in the regolith overlaying dolostone bedrock at depths between 45 to 50 feet below ground level. During the February 2, 2017 groundwater sampling event, the potentiometric surface ranged from 19.25 to 38.65 feet below top of casing. The direction of groundwater flow is towards the northwest, while the topography decreases in elevation to the southeast. It is probable that the confined groundwater is in contact with groundwater present in the Cotter Dolostone via fractures and solutional conduits.

The closest well utilizing the Cotter Dolostone as potable water is located on the Phillip Eversole property. The Eversole well is 635 feet from the site tank hold. The total depth of the Eversole well equals 305 feet. The well is constructed of 42 feet of 6-inch steel casing penetrating the bedrock, which occurs at a depth of 26 feet. The well beneath the steel casing consists of open hole in bedrock.

2.0 INITIAL SITE CHARACTERIZATION ACTIVITIES

On October 13, 2015, EPC, Inc. (EPC) advanced six soil borings to depths ranging from 13 to 25 feet. Soils encountered were described in the Initial Site Characterization Report (ISCR), dated November 16, 2015, as "very dry firm tight clay with intermittent intervals of chert. Dry to slightly moist silt-clay was observed in Boring (B-3) at 18 to 20 feet bgs. Boring (B-5) also indicated slightly moist conditions at 18 to 20 feet bgs."

As part of the ISCR, EPC submitted one sample from each boring for laboratory analysis for benzene, toluene, ethylbenzene, total xylenes, MTBE, naphthalene by Method 8260B; and total petroleum hydrocarbons - gasoline range organics (TPH-GRO) and total petroleum hydrocarbons - diesel range organics (TPH-DRO) by Method 8015B. Based on the analytical results, only one sample collected from B-3 at a depth of 20 feet, contained hydrocarbon concentrations. The analytical results of the sample follow: benzene (0.183 mg/Kg), toluene (0.902 mg/Kg),

ethylbenzene (2.60 mg/Kg), total xylenes (12.53 mg/Kg), naphthalene (1.06 mg/Kg), TPH-GRO (108 mg/Kg), and TPH-DRO (37.3 mg/Kg).

Free product was present in all four tank hold observation wells at a maximum thickness of 0.27 feet.

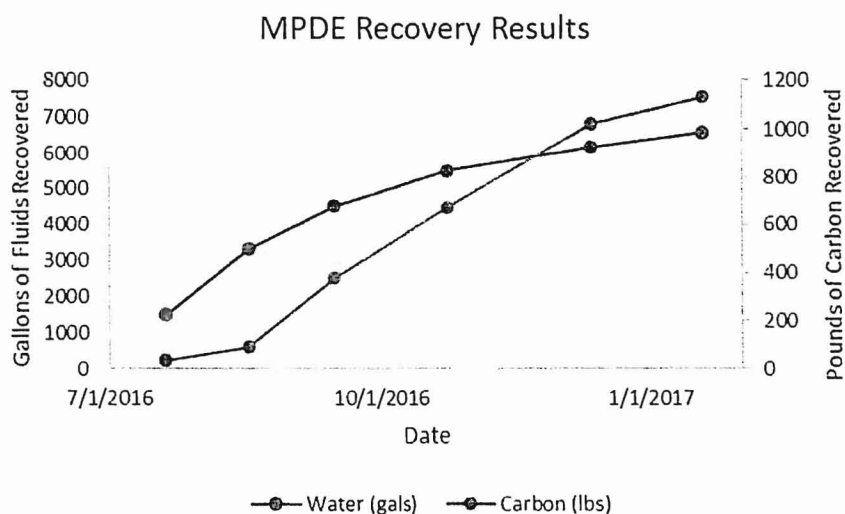
3.0 MOBILE DUAL PHASE RECOVERY EVENTS

Six 8 hour mobile dual phase recovery events (MDPE) were conducted to remove free total fluids from the four tank hold observation wells. A diagram of the tank hold is offered as Figure 4. The results of the six events are presented below.

Table 1
MOBILE DUAL PHASE RECOVERY EVENTS - TANK HOLD OBSERVATION WELLS

Tank Hold Observation Well	20-Jul-16		17-Aug-16		15-Sep-16		24-Oct-16		12-Dec-16		19-Jan-16	
	Free Product Thickness (ft)		Free Product Thickness (ft)		Free Product Thickness (ft)		Free Product Thickness (ft)		Free Product Thickness (ft)		Free Product Thickness (ft)	
	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final
OW-1	0.25	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OW-2	0.13	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OW-3	0.35	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00
OW-4	0.32	0.00	0.00	0.00	0.01	0.00	0.00	0.00	DRY	DRY	DRY	DRY

The water present in the tank hold was removed during the initial MDPE events exposing the backfill to vapor extraction. Upon dewatering the backfill, vapor concentrations increased.



The results of the six 8-hour MDPE events was successful in removing the majority of free product present in the tank hold.

4.0 SITE ASSESSMENT ACTIVITIES

4.1 SOIL INVESTIGATION

From January 9th to January 16th, 2017, soil samples were collected from the zone immediately above bedrock, the depth immediately above the confined water table, or the highest photoionization detector (PID). Each soil sample was subdivided into two portions. One portion was used for field screening using a PID. The second portion was containerized in a 2 oz. laboratory prepared glass jar, sealed with a plastic lid and Teflon liner, and then placed in a pre-iced cooler. The seven soil samples were submitted to the laboratory for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), MTBE, and naphthalene via EPA Method 8260B; and TPH-GRO and TPH-DRO via EPA Method 8015C.

4.2 MONITORING WELL INSTALLATION

Seven soil borings were advanced into native soils using an auger drilling rig. The boring auger flight outside diameter equaled 7-5/8 inches with an 8-1/4 inch bit. The proposal called for auger drilling to the top of bedrock (maximum approved depth of 40 feet), and if it appeared that the well would not yield sufficient water for sampling, a 4-inch tri-cone bit would be advanced within the auger flights, and the bedrock would be penetrated approximately 3 feet by air rotary prior to setting the monitoring well.

The first boring, designated monitoring well MW-1, was positioned 27 feet northwest of the tank hold. Bedrock was encountered at a depth of 25.5 feet below ground surface. Observed soil moisture content was deemed not sufficient to produce groundwater. The boring was advanced into bedrock to a depth of 28.5 feet bgs and the monitoring well was constructed. To date, the well has not yielded any groundwater.

The second boring, designated monitoring well MW-2, was placed 65 feet southeast of MW-1 and 15 feet southeast of the tank hold. Observed soil moisture content indicated the presence of groundwater at a depth of 50 feet bgs. Weathered bedrock was encountered at a depth of 58 feet. The augers were advanced into bedrock an additional 2 feet and the boring was terminated at a depth of 60 feet bgs.

Upon retrieval of the 5-foot barrel sampler, 7 feet of wet clay was forced into the auger flights due to the confined groundwater's hydrostatic head. The auger flights were extracted from the boring and the clay was removed from the auger flights. A plastic bottom plug was placed inside the auger bit and the boring was over-drilled to 60 feet. Once the over-drilling was complete, potable water was added to the auger flights to overcome the groundwater's hydrostatic head. Then the bottom plug was knocked out using drilling rod and the PVC screen and riser pipe was placed inside the flights. The augers were slowly raised as the sand filter pack was backfilled within the auger flights.

A weighted tape was used to measure the depth to sand and prevent bridging within the auger flights. The well was constructed using 20 feet of screen and 40 feet of riser pipe. Upon completion of backfilling with filter pack, coated bentonite pellets were added to seal the filter pack.

The third boring, designated MW-3, was advanced using hollow stem augers until rock was encountered at a depth of 44 feet. Upon encountering rock, the method of drilling was switched to air rotary. Rather than encountering bedrock, the driller stated that he believed that the air rotary bit was pushing a large rock down rather than penetrating bedrock. At a depth of 50 feet the large rock was pushed aside. Another large rock was encountered at a depth of 53 feet. Dolostone bedrock was encountered at a depth of 55 feet. The boring was advanced to a depth of 60 feet into weathered bedrock. Upon extraction of the air rotary tri-cone bit it was found that the boring collapsed and clay had entered the auger flights to a depth of 39 feet. The auger flights were removed and the clay was removed from the augers. Then a plastic plug was placed in the auger bit and the boring was over-drilled to a depth of 60 feet. The well was set with 20 feet of screen and 40 feet of riser.

The fourth, fifth, and sixth borings, designated MW-4, MW-5, and MW-6, were advanced using hollow stem augers to a depth of 60 feet. Bedrock was not encountered. The wells were set with 20 feet of screen and 40 feet of riser inside the auger flights.

Upon installation of the monitoring wells screen and piping, the annulus was backfilled with sand filter pack above the screened interval. Two to four feet of bentonite pellets was placed on top of the sand pack and hydrated. The remaining annulus was sealed with a portland cement containing 4 to 6% bentonite powder. The top of casings were fitted with water tight well caps and locks. Surface completions consisted of flush mounted bolt-down manholes set in 20-inch x 20-inch concrete pads.

The seventh boring, designated B-7, was placed between MW-1 and the tank hold. Bedrock was encountered at a depth of 28 feet below ground surface. Observed soil moisture content was not sufficient to produce groundwater. The boring was advanced to a depth of 58 feet below ground level. A clay seam was encountered from 40 to 41 feet. A saturated clay seam was encountered at a depth of 53 feet. The boring was terminated at a depth of 58 feet in saturated clay. Upon extraction of the air rotary bit it was found that clay had moved up the boring to a depth of 40 feet. Approximately 2 feet of water was present above the clay. A grab groundwater sample was collected. Afterwards, 4 feet of bentonite was added to the boring to plug the boring. Once hydrated, the remainder of the boring was filled with bentonite grout to a depth of about 6 inches. The remaining void was backfilled with cement.

The soil borings / monitoring wells were installed by Anderson Engineering Consultants, Inc. of Little Rock.

4.3 MONITORING WELL DEVELOPMENT

On January 16, 2017, the five monitoring wells containing groundwater were developed using a Waterra HydroLift II pump until the water column appeared free of sediment. The tubing used to pump each well was discarded after use. Approximately 145 gallons of development water were stored in 55 gallon drums.

4.4 GROUNDWATER GAUGING AND SAMPLING

On January 18, 2017, a grab groundwater sample was collected from boring B-7. The sample was collected from standing water, which entered the boring after its collapse.

On February 2, 2017, after the monitoring wells were gauged, a low flow, electric driven bladder pump and LDPE tubing was used to purge and sample the five monitoring wells containing groundwater. Groundwater samples were collected when temperature, turbidity, redox potential, pH, conductivity, and dissolved oxygen parameters stabilized and the groundwater was relatively free of sediment. The groundwater samples were collected prior to entering the groundwater field parameter probe chamber at the completion of the purging process. One duplicate sample was collected during the sampling event.

A groundwater sample was also collected from the Eversole well. The water was sampled from the private well after purging for 5 minutes.

Upon collection, the groundwater samples were placed in a pre-iced cooler prior to shipment to the laboratory for analyses. The groundwater samples, duplicate, and one trip blank were submitted to the laboratory for analysis of benzene, toluene, ethyl-benzene, total xylenes (BTEX), MTBE, 1,2DCA, and naphthalene via EPA Method 8260B; EDB by EPA Method 8011; and TPH-GRO and TPH-DRO via EPA Method 8015C.

5.5 PROFESSIONAL SURVEY

During the groundwater sampling event, Brian Keen, Arkansas Registered Professional Surveyor No. 1509, surveyed the northings, eastings, and surface and well top of casing (TOC) elevations. The Eversole well location and elevation were also surveyed.

6.0 RESULTS

6.1 SOIL ANALYTICAL RESULTS

Soil samples were collected during installation of the monitoring wells. The soil sample collected from B-7 (27-28 ft) yielded the greatest hydrocarbon response. The boring yielded <0.495 mg/kg benzene, <0.248 mg/kg toluene, 2.90 mg/kg ethylbenzene, 14.0 mg/kg total xylenes, <0.495 mg/kg

MTBE, <2.48 mg/kg naphthalene, 377 mg/kg TPH-GRO, and 312 mg/kg TPH-DRO. The results are offered as Table 2 and Figure 5.

6.2 GROUNDWATER GAUGING RESULTS

Groundwater elevation calculations measured from top of casing in the five monitoring wells ranged from 741.93 feet MSL in MW-3 (depth to groundwater equaled 38.52 feet below TOC) to 759.12 feet MSL in MW-5 (depth to groundwater equaled 19.25 feet below TOC).

The potentiometric surface map is offered as Figure 6. Groundwater gradient equaled 0.253 towards the northwest (the opposite direction of the topographical gradient).

6.3 GROUNDWATER ANALYTICAL RESULTS

On January 18, 2017, a grab groundwater sample was collected from boring B-7 using a bailer. The sample was collected from groundwater that entered the boring after its collapse. Concentrations of benzene (0.0769 mg/L), TPH-GRO (2.26 mg/L), and TN-DRO (41.6 mg/L).

Groundwater samples were collected from the monitoring wells on February 2, 2017. Detectable TPH-DRO hydrocarbon constituents were present in monitoring wells MW-2, MW-3, MW-4, and MW-6. The greatest TPH-DRO concentration is present in monitoring well MW-3 (0.389 mg/L). Concentrations of 1,2-DCA and EDB were not present above detectable levels.

The results of the groundwater sampling events are offered as Table 4 and Figures 7.

7.0 INVESTIGATION DERIVED WASTE MANAGEMENT

Soil cuttings generated during the soil boring process were placed in twenty-two 55-gallon drums. The soil cuttings were disposed of at the Rolling Meadows Landfill located at 1420 Hamrie Road, Hazen, Arkansas.

Water generated by well development and sampling were placed in three 55-gallon drums. The water was taken to the Ramco Environmental facility for recycling at 20 Terraconway Drive, Conway, Arkansas.

5.0 CONCLUSIONS

Due to the presence of private drinking water wells in proximity to the site, the unexpected direction of groundwater flow, and the dissolved benzene concentration in the grab sample collected from boring B-7 (most downgradient groundwater sampling point), it is recommended that groundwater quality and bedrock lithology within the Cotter Formation be evaluated.

FIGURE 1
VICINITY MAP

Flash Market #354
6906 Highway 412
Glencoe, Arkansas
ID#: 25001616

SEMS Inc.



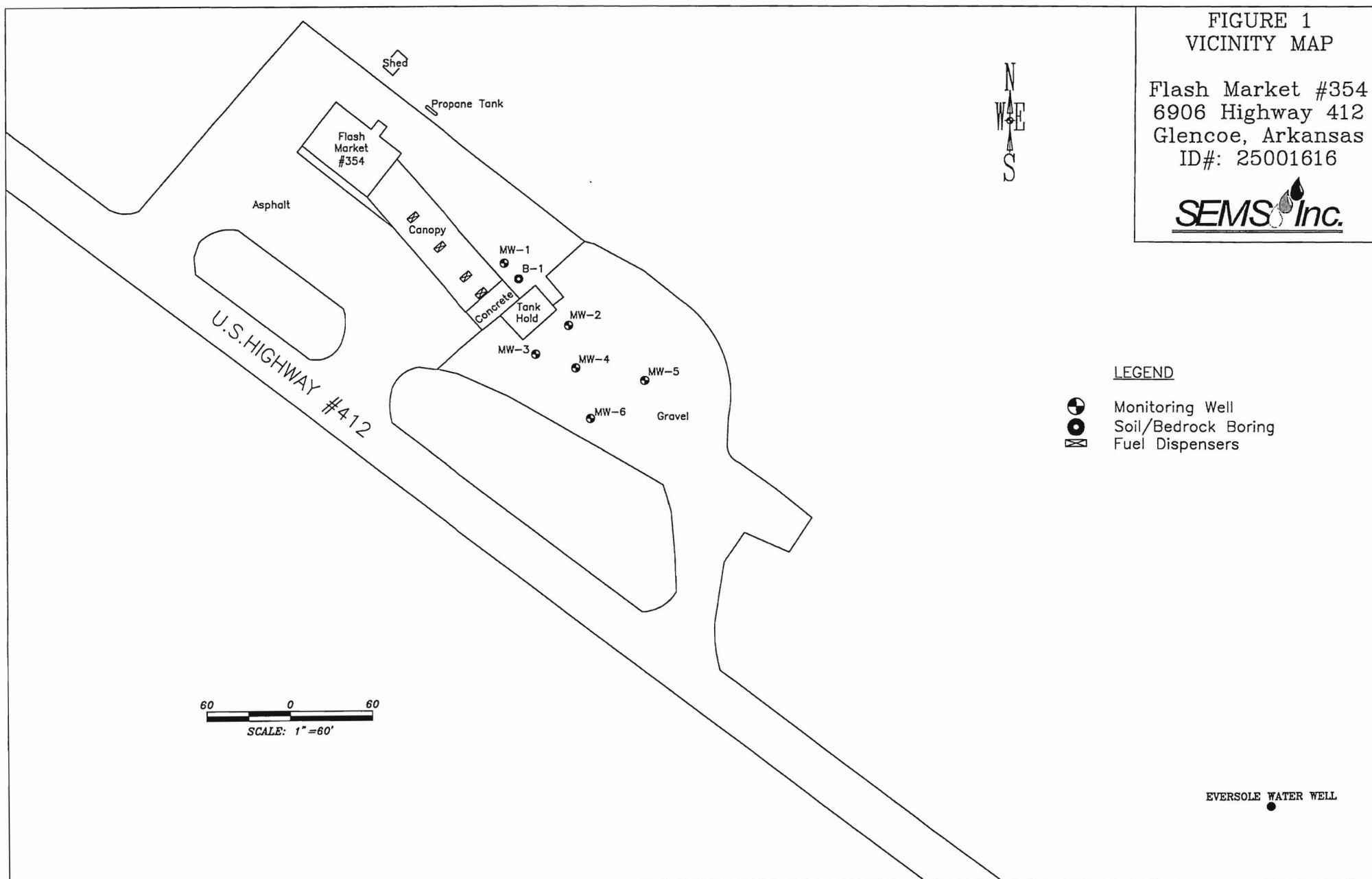
LEGEND

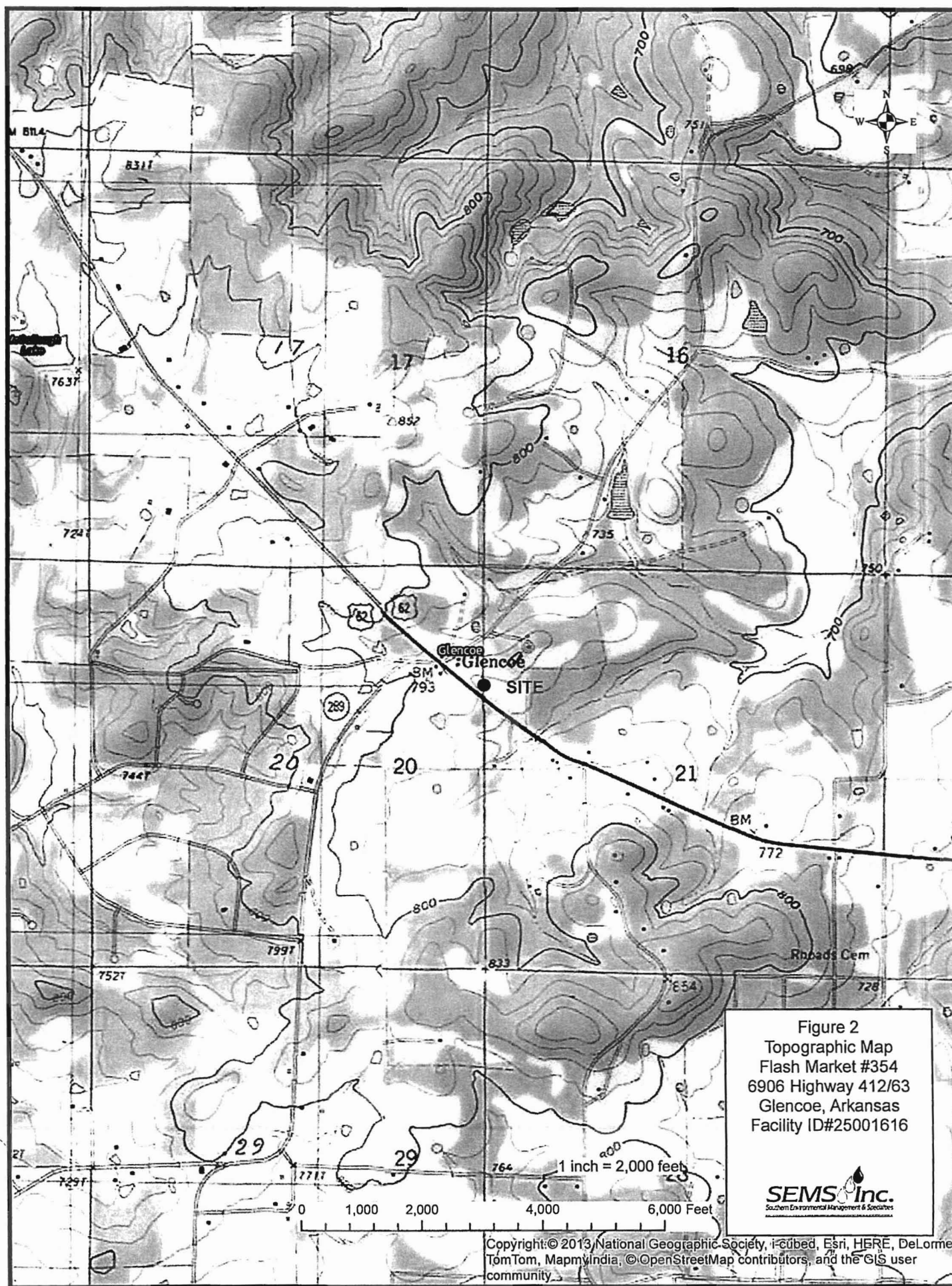


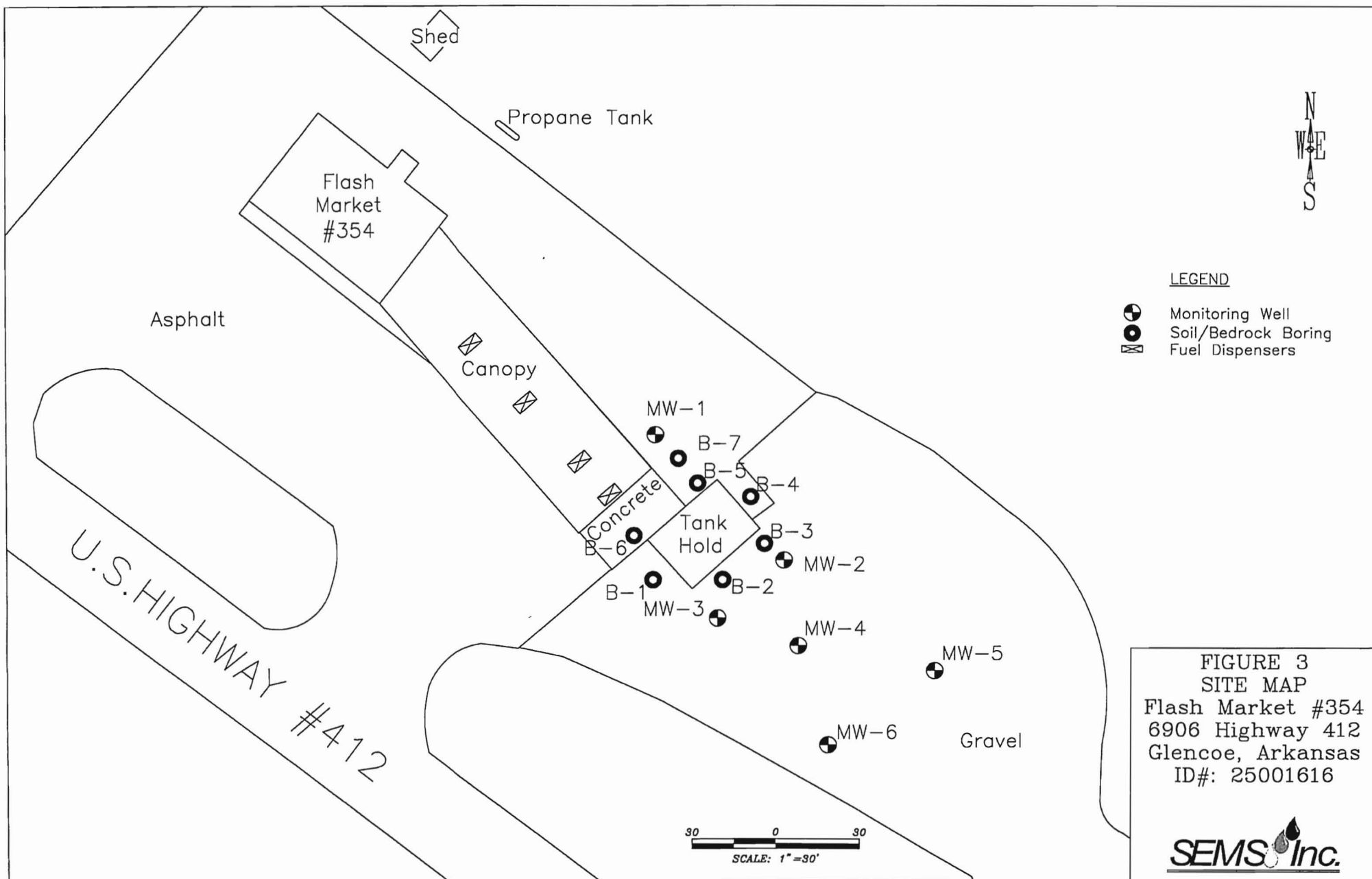
Monitoring Well
Soil/Bedrock Boring
Fuel Dispensers

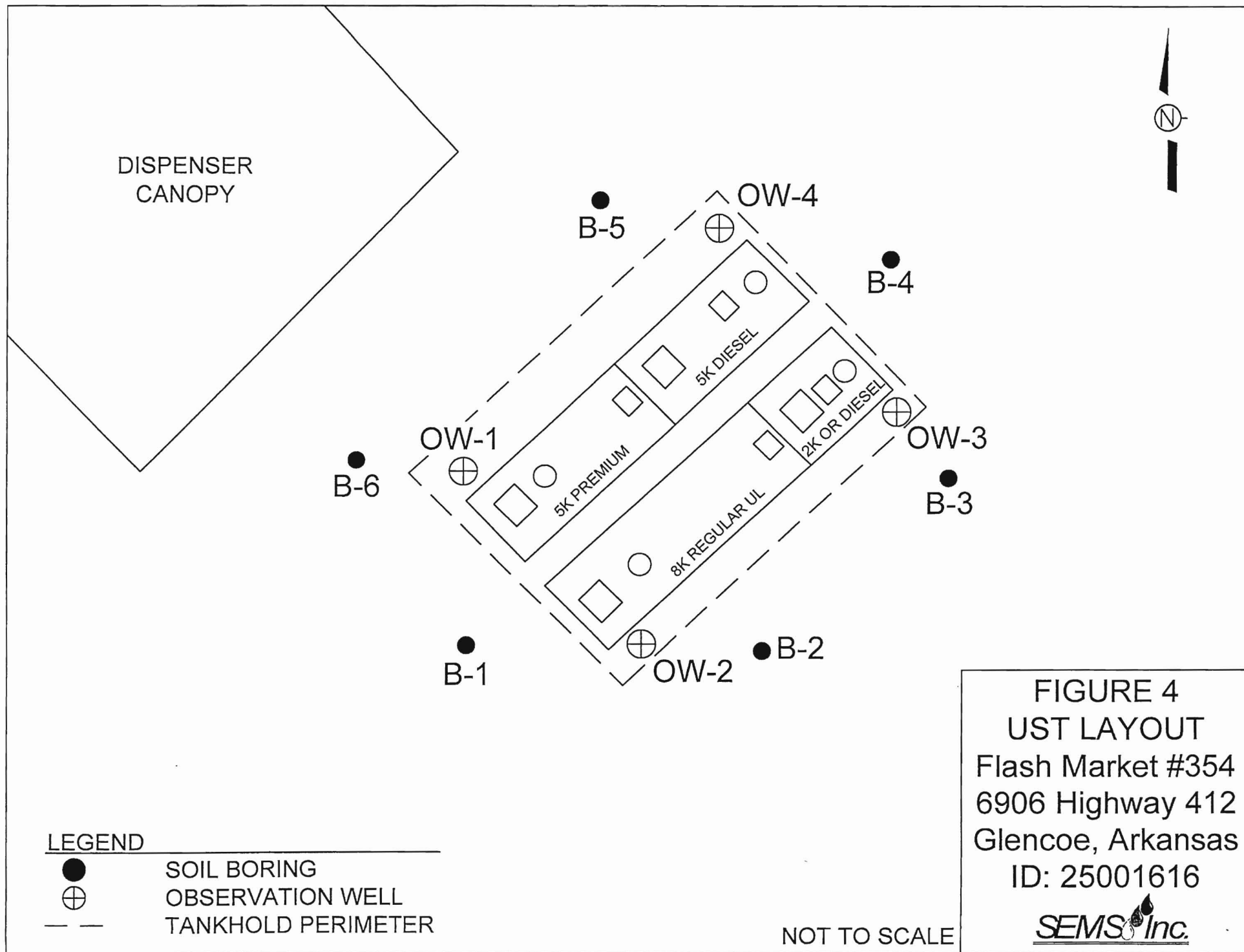
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SCALE: 1" = 60'

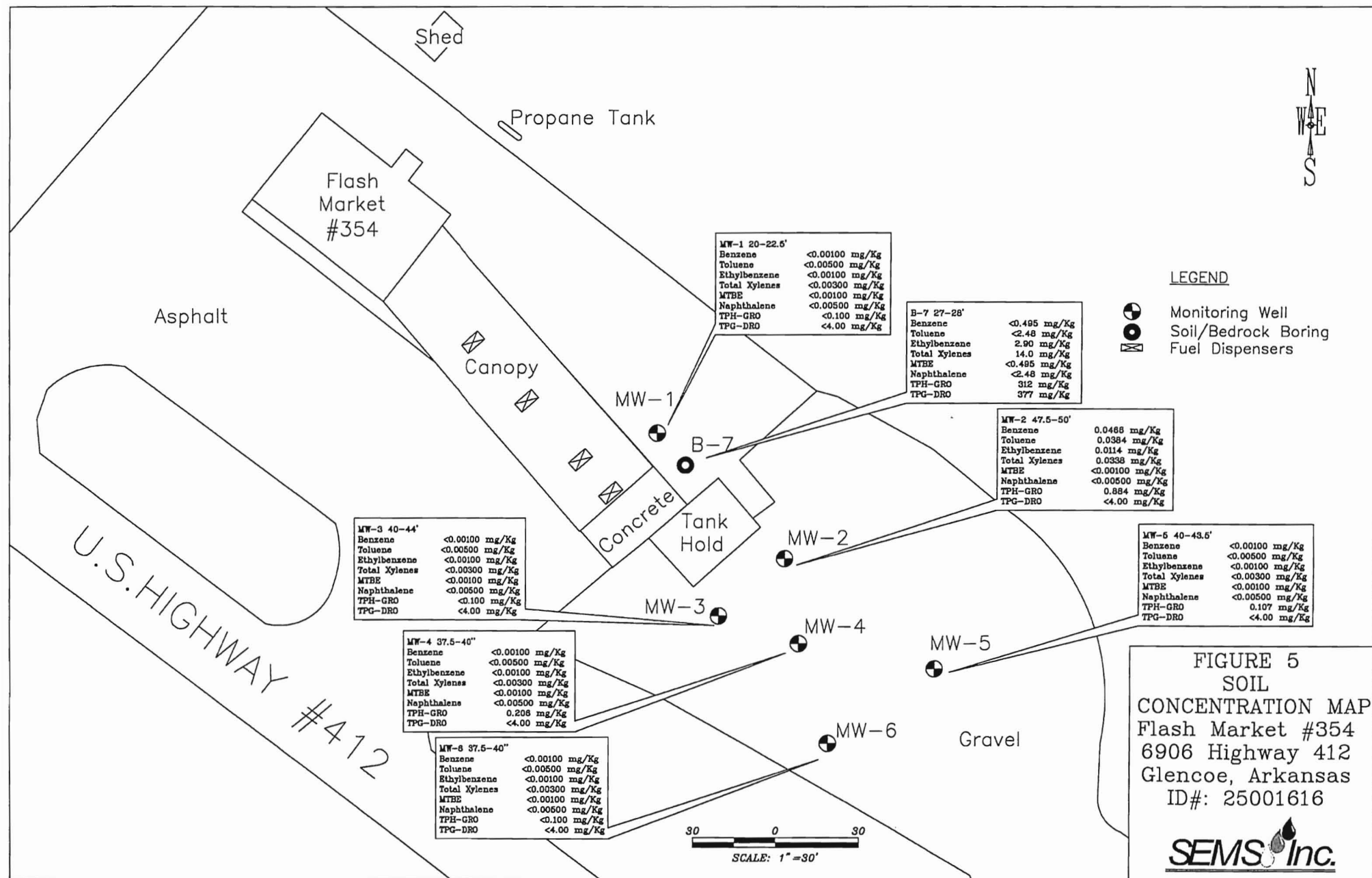
EVERSOLE WATER WELL











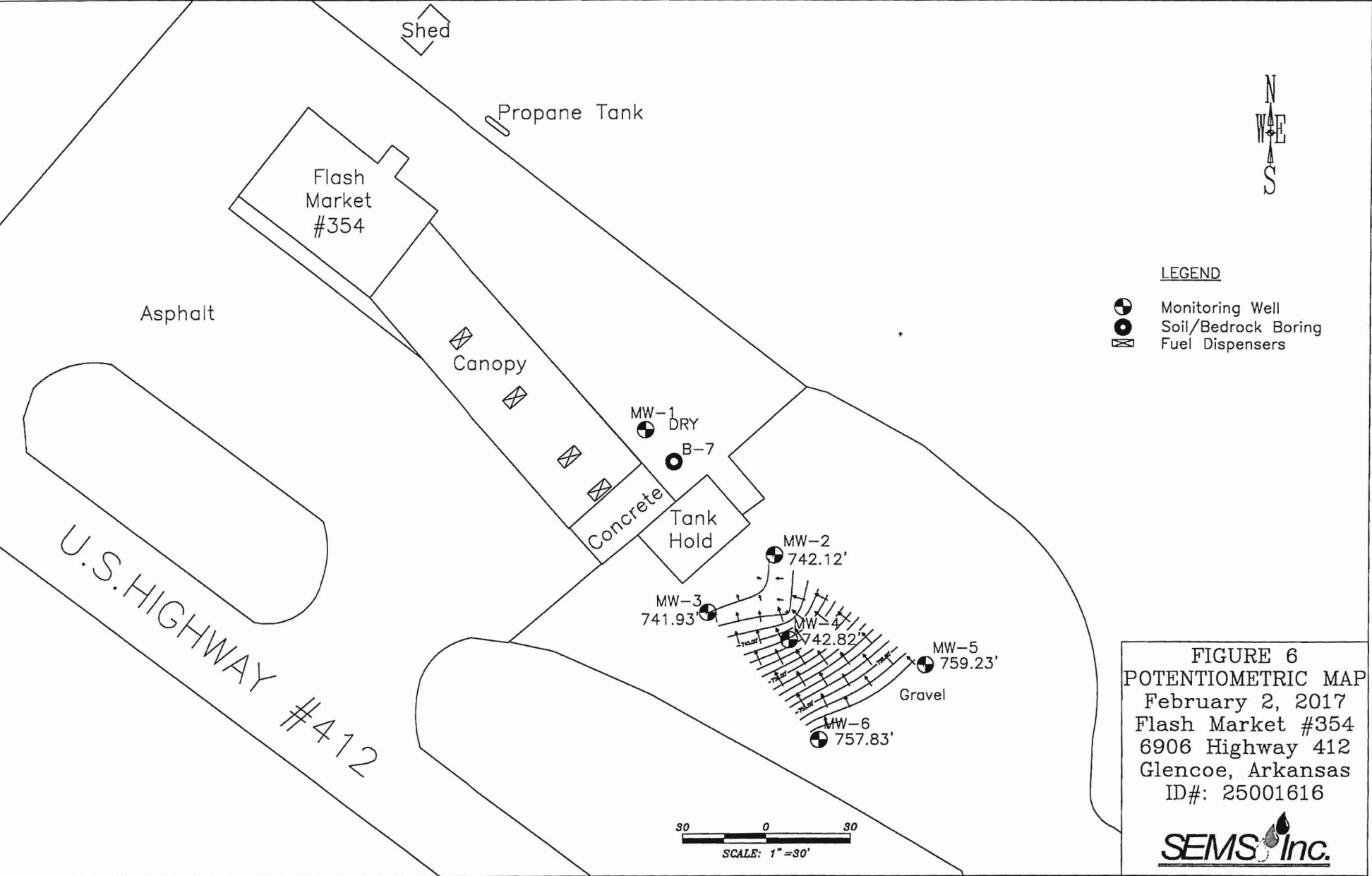


FIGURE 6
POTENTIOMETRIC MAP
February 2, 2017
Flash Market #354
6906 Highway 412
Glencoe, Arkansas
ID#: 25001616





LEGEND

- Monitoring Well
- Soil/Bedrock Boring
- Fuel Dispensers

B-7	
Benzene	0.0769 mg/L
Toluene	<0.0100 mg/L
Ethylbenzene	<0.0100 mg/L
Total Xylenes	<0.0300 mg/L
MTBE	<0.0100 mg/L
Naphthalene	<0.0500 mg/L
TPH-GRO	2.26 mg/L
TPG-DRO	41.6 mg/L
EDB	-----
1,2-DCA	-----

MW-2	
Benzene	<0.00100 mg/L
Toluene	<0.00100 mg/L
Ethylbenzene	<0.00100 mg/L
Total Xylenes	<0.00300 mg/L
MTBE	<0.00100 mg/L
Naphthalene	<0.00500 mg/L
TPH-GRO	<0.100 mg/L
TPG-DRO	0.219 mg/L
EDB	<0.0000100 mg/L
1,2-DCA	<0.00100 mg/L

MW-5	
Benzene	<0.00100 mg/L
Toluene	<0.00100 mg/L
Ethylbenzene	<0.00100 mg/L
Total Xylenes	<0.00300 mg/L
MTBE	<0.00100 mg/L
Naphthalene	<0.00500 mg/L
TPH-GRO	<0.100 mg/L
TPG-DRO	0.199 mg/L
EDB	<0.0000100 mg/L
1,2-DCA	<0.00100 mg/L

MW-3	
Benzene	<0.00100 mg/L
Toluene	<0.00100 mg/L
Ethylbenzene	<0.00100 mg/L
Total Xylenes	<0.00300 mg/L
MTBE	<0.00100 mg/L
Naphthalene	<0.00500 mg/L
TPH-GRO	<0.100 mg/L
TPG-DRO	0.389 mg/L
EDB	<0.0000100 mg/L
1,2-DCA	<0.00100 mg/L

MW-4	
Benzene	<0.00100 mg/L
Toluene	<0.00100 mg/L
Ethylbenzene	<0.00100 mg/L
Total Xylenes	<0.00300 mg/L
MTBE	<0.00100 mg/L
Naphthalene	<0.00500 mg/L
TPH-GRO	<0.100 mg/L
TPG-DRO	<0.100 mg/L
EDB	<0.0000100 mg/L
1,2-DCA	<0.00100 mg/L

MW-6	
Benzene	<0.00100 mg/L
Toluene	<0.00100 mg/L
Ethylbenzene	<0.00100 mg/L
Total Xylenes	<0.00300 mg/L
MTBE	<0.00100 mg/L
Naphthalene	<0.00500 mg/L
TPH-GRO	<0.100 mg/L
TPG-DRO	0.109 mg/L
EDB	<0.0000100 mg/L
1,2-DCA	<0.00100 mg/L

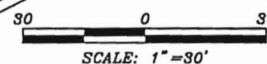


FIGURE 7
GROUNDWATER
CONCENTRATION MAP
Flash Market #354
6906 Highway 412
Glencoe, Arkansas
ID#: 25001616

SEMS Inc.