From: Mark Penzkover <mark@endpointcorporation.com>
Sent: Wednesday, May 13, 2020 3:02 PM
To: Stoltz, Carrie R - DNR
Cc: Wade Wollermann; Remington Oil
Subject: PECFA Cost Cap Adjustment Request for Remington Oil Tomahawk Site
Attachments: Cost Cap Request Letter_Remington Oil Tomahawk_Final_05-13-2020.pdf; PECFA Invoice Cost Cap Request_Remington Oil_Tomahawk_05-12-2020.xlsx; Table 2 - GW Analytical_Draft_Feb_2015.xlsx

Follow Up Flag: Follow up
Due By: Thursday, May 14, 2020 8:30 AM
Flag Status: Completed

Carrie:

Following up on yesterday's NOV conference call, attached is the PECFA Cost Cap Adjustment Request information. Also attached is the requested historical groundwater data. If you have any questions or require additional information in order to approve the proposed PECFA work scope, please let me know. As soon as I receive notification of the approved PECFA cost cap adjustment from you, I'll send Remington Oil a formal proposal for the approved work scope and, upon execution of the *Client Agreement* and associated *Task Order* by Remington Oil, I will get the field work for the groundwater sampling scheduled. If all goes smoothly, we will probably conduct the groundwater sampling either May 22nd or May 26th. Thanks and take care.

Mark J.K. Penzkover, P.E.
Endpoint Solutions Corp.
6871 S. Lover's Lane
Franklin, WI 53132
414-897-3237 (cell phone)
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May 13, 2020

Ms. Carrie Stoltz, Hydrogeologist
Wisconsin Department of Natural Resources
107 Sutliff Avenue
Rhinelander, WI 54501

Subject: Request for PECFA Cost Cap Adjustment
Former Remington Oil Bulk Plant, Tomahawk, Wisconsin
PECFA #: 54487-1227-24-A BRRTS #: 03-35-258251

Dear Ms. Stoltz:

Following up on the May 12, 2020 Notice of Violation teleconference, Endpoint Solutions Corp. (Endpoint) is submitting this Request PECFA Cost Cap Adjustment on behalf of Remington Oil (Responsible Party) for the above referenced site (the "Site"). The following sections summarize Endpoint's recommended scope for this Site and associated costs.

DESCRIPTION OF PROPOSED SERVICES

The following work scope was discussed and conditionally approved by you verbally during the May 12, 2020 conference call.

Groundwater Sampling. Endpoint will perform an additional groundwater sampling event from the twelve (12) existing wells. Groundwater samples will be tested for PVOCs and Naphthalene. The analytical results of this sampling round will be submitted to WDNR for review and a preliminary evaluation of regulatory closure feasibility. Attached to this letter is a summary of the historical groundwater sampling results.

Regulatory Closure Request. If the groundwater conditions from the proposed sampling event indicates that the Site may be eligible for regulatory closure, with concurrence from WDNR, Endpoint will prepare and submit a Case Closure Packet with all applicable required information.

Monitoring Well Network Abandonment. If regulatory closure is granted, Endpoint will abandon the existing monitoring well network in compliance with NR 141.

Administrative items. Items include WDNR correspondence (the recent NOV conference call and correspondence after the groundwater sampling event), change order request, invoicing, and PECFA Claim preparation and submittal.

USUAL & CUSTOMARY PRICING

Utilizing *U&C Cost Schedule #27* (January 2020 through June 2020), Endpoint has prepared the pricing below for the proposed work scope summarized in the previous section. A copy of the overall pricing spreadsheet is attached to this letter.

Task #1 - Groundwater Monitoring					
Code	**Task Description**	**Unit**	**Unit Cost**	**Quantity**	**Subtotal**
GS05	Sample Collection	Well	$ 74.62	12.00	$ 895.44
GS25	Primary Mob/Demob	Site	$ 690.92	1.00	$ 690.92
WD05	Consultant Coordination	Site	$ 141.24	1.00	$ 141.24
WD10	GW Sample and/or Purge	Drum	$ 43.37	6.00	$ 260.22
WD25	Primary Mob/Demob	Site	$ 316.47	1.00	$ 316.47
MDT21	Drum, 55 gal. DOT steel	Each	$ 56.78	6.00	$ 340.68
W4	PVOC + Naphthalene	SAMPLE	$ 31.26	12.00	$ 375.12
					$ 3,020.09

Task #2 - Closure Request					
Code	**Task Description**	**Unit**	**Unit Cost**	**Quantity**	**Subtotal**
CR05	Primary Closure Request	EACH	$ 2,781.00	1.00	$ 2,781.00
CR15	Continuing Obligation Submittal (Source Property)	EACH	$ 522.58	1.00	$ 522.58
CR30	PE review and certification of closure packet	Site	$ 1,129.60	1.00	$ 1,129.60
					$ 4,433.18

Task #3 - Well Abandonment					
Code	**Task Description**	**Unit**	**Unit Cost**	**Quantity**	**Subtotal**
WAB05	Coordination	Site	$ 162.86	1.00	$ 162.86
WAB10	Water column < 30 ft	Ft	$ 2.60	160.00	$ 416.00
WAB15	Water column > 30 ft	Ft	$ 9.08	10.00	$ 90.80
WAB20	Bentonite Pellets (50lb bag - 1/4" pellet)	Bag	$ 11.14	15.00	$ 167.10
WAB30	Primary Mob/Demob	Site	$ 398.48	1.00	$ 398.48
WAB40	Well Abandonment (2 inch)	Ft	$ 5.74	170.00	$ 975.80
WAB35	Well Abandonment Mob/Demob	Site	$ 453.81	1.00	$ 453.81
					$ 2,664.85

Task #4 - Administration					
Code	**Task Description**	**Unit**	**Unit Cost**	**Quantity**	**Subtotal**
RC05	Regulatory Correspondence	UPDATE	$ 132.81	2.00	$ 265.62
CS05	Claim Submittal	Claim	$ 603.48	1.00	$ 603.48
SI05	Standardized Invoice	Invoice	$ 18.17	2.00	$ 36.34
COR05	Change Order Request (cost cap exceedance requests)	hange Ord	$ 393.23	1.00	$ 393.23
					$ 1,298.67

$ 11,416.79

CLOSING

For the proposed work scope, we request an adjustment of the deferred cost cap in the amount of **$11,416.79**. Endpoint is prepared to commence with this scope of work immediately upon receiving authorization from WDNR. If you have any questions or comments regarding the scope of work or the associated cost estimate, please do not hesitate to contact us at 414-858-1205.

Sincerely,

Endpoint Solutions

Mark J.K. Penzkover, P.E.
Principal

cc: Mr. Dean Sorano, Remington Oil Co., Inc.

Attachments: Historical Groundwater Analytical Results Summary
PECFA Cost Cap Pricing Spreadsheet

Usual and Customary Standardized Invoice #27
January 2020 - June 2020

RR-113a-E

PECFA #: 54487-1227-24-A
BRRTS #: 03-35-258251
Site Name: Remington Oil
Site Address: Tomahawk, WI

Vendor Name: Endpoint Solutions
Invoice #:
Invoice Date:
Check #:

U&C Total $ 11,416.79
Variance to U&C Total $ -
Grand Total $ 11,416.79

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
1	GW Sampling		GS05	Sample Collection	Well	$ 74.62	12	$ 895.44
1	GW Sampling		GS06	Sample Collection in well w/LNAPL	Well	$ 90.07		$ -
1	GW Sampling		GS10	Incremental Sample Collection (natural attenuation)	Well	$ 49.10		$ -
1	GW Sampling		GS15	Incremental Sample Collection (cadmium & lead)	Well	$ 27.04		$ -
1	GW Sampling		GS20	Measure Water Levels (for wells not being sampled)	Well	$ 15.14		$ -
1	GW Sampling		GS25	Primary Mob/Demob	Site	$ 690.92	1	$ 690.92
1	GW Sampling		GS30	Temporary Well Abandonment	Well	$ 27.80		$ -
2	O & M Reporting		OMR05	Semi-Annual GW Monitoring (Form 4400-194)	Report	$ 848.44		$ -
2	O & M Reporting		OMR10	Semi-Annual GW Monitoring (Form 4400-194) with LNAPL Removal per RR-628	Report	$ 1,071.66		$ -
3	LNAPL Assessment & Removal		LAR06	LNAPL Sample Collection (1 per site, unless otherwise direct	Site	$ 70.30		$ -
3	LNAPL Assessment & Removal		LAR10	Primary Mob/Demob	Site	$ 569.88		$ -
4	Waste Disposal	Consultant	WD05	Consultant Coordination	Site	$ 141.24	1	$ 141.24
4	Waste Disposal	Commodity	WD10	GW Sample and/or Purge	Drum	$ 43.37	6	$ 260.22
4	Waste Disposal	Commodity	WD15	Drill Cuttings	Drum	$ 111.39		$ -
4	Waste Disposal	Commodity	WD17	Landfill Environmental Fee (provide documentation)	ACTUAL COST			
4	Waste Disposal	Commodity	WD20	Free Product	Drum	$ 122.32		$ -
4	Waste Disposal	Commodity	WD25	Primary Mob/Demob	Site	$ 316.47	1	$ 316.47
5	Closure Request		CR05	Primary Closure Request	Submittal	$ 2,781.00	1	$ 2,781.00
5	Closure Request		CR15	Continuing Obligation Packet Submittal (For Source Property	Packet	$ 522.58	1	$ 522.58
5	Closure Request		CR20	Continuing Obligation Packet Submittal (For off-site Propertie	Per Additional Property	$ 229.39		$ -
5	Closure Request		CR25	Closure Request Following SIR	Submittal	$ 1,287.50		$ -
5	Closure Request		CR30	PE review and certification of closure packet	Site	$ 1,129.60	1	$ 1,129.60
6	Letter Report/Addendum		LRA05	Letter Report/Addendum	Letter	$ 1,070.47		$ -

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
7	Regulatory Correspondence		RC05	Regulatory Correspondence	Letter/Status Update	$ 132.81	2	$ 265.62
8	Well Abandonment	Consultant	WAB05	Coordination	Site	$ 162.86	1	$ 162.86
8	Well Abandonment	Consultant	WAB10	Water column < 30 ft	Ft	$ 2.60	160	$ 416.00
8	Well Abandonment	Consultant	WAB15	Water column > 30 ft (requires pumping [s. NR 141.25 (2) (d)]	Ft	$ 9.08	10	$ 90.80
8	Well Abandonment	Consultant	WAB20	Bentonite Pellets (50lb bag - 1/4" pellet)	Bag	$ 11.14	15	$ 167.10
8	Well Abandonment	Consultant	WAB25	Portland Cement (94lb bag)	Bag	$ 8.44		$ -
8	Well Abandonment	Consultant	WAB30	Primary Mob/Demob	Site	$ 398.48	1	$ 398.48
8	Well Abandonment	Consultant	WAB31	Primary Mob/Demob w/ vapor point abandonment	Site	$ 563.48		$ -
8	Well Abandonment	Consultant	WAB32	Vapor Point Abandonment	Point	$ 81.58		$ -
8	Well Abandonment	Commodity	WAB35	Well Abandonment Mob/Demob	Site	$ 453.81	1	$ 453.81
8	Well Abandonment	Commodity	WAB40	Well Abandonment (2 inch)	Ft	$ 5.74	170	$ 975.80
8	Well Abandonment	Commodity	WAB45	Well Abandonment (4 inch)	Ft	$ 6.71		$ -
8	Well Abandonment	Commodity	WAB50	Well Abandonment (6 inch)	Ft	$ 8.22		$ -
9	Investigation Workplan Preparation		IWP05	Investigation Workplan Preparation	Report	$ 1,495.18		$ -
10	Initial Site Survey	Consultant	IS05	Coordination of Initial Site Survey (features + well elevations)	Survey	$ 120.70		$ -
10	Initial Site Survey	Consultant	IS10	Subsequent Surveys	Well	$ 113.45		$ -
10	Initial Site Survey	Commodity	IS15	Initial Survey	Survey	$ 1,206.85		$ -
11	Potable Well Field Reconnaissance		PWFR05	Potable Well Field Reconnaissance	Site	$ 601.01		$ -
12	Direct Push	Consultant	DP05	0 - 24 ft bgs W/ Continuous Soil Sampling	Ft	$ 5.52		$ -
12	Direct Push	Consultant	DP10	> 24 ft bgs W/ Continuous Soil Sampling	Ft	$ 6.17		$ -
12	Direct Push	Consultant	DP15	GW Profiling (No Soil Sampling)	Ft	$ 2.38		$ -
12	Direct Push	Consultant	DP20	GW Sample Collection	Each	$ 37.18		$ -
12	Direct Push	Consultant	DP25	Temporary Well Installation	Each	$ 51.40		$ -
12	Direct Push	Consultant	DP30	Primary Mob/Demob	Site	$ 563.31		$ -
12	Direct Push	Commodity	DP35	0 - 24 ft bgs W/ Continuous Soil Sampling	Ft	$ 7.14		$ -
12	Direct Push	Commodity	DP40	> 24 ft bgs W/ Continuous Soil Sampling	Ft	$ 9.30		$ -
12	Direct Push	Commodity	DP45	GW Profiling (no soil sampling)	Ft	$ 6.71		$ -
12	Direct Push	Commodity	DP50	GW Sample Collection (cost for tubing)	Ft	$ 0.43		$ -
12	Direct Push	Commodity	DP55	Expendable Drive Point	Each	$ 14.92		$ -
12	Direct Push	Commodity	DP60	Borehole Abandonment	Ft	$ 1.30		$ -
12	Direct Push	Commodity	DP65	Concrete Penetration	Each	$ 20.70		$ -

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
12	Direct Push	Commodity	DP70	GW Sample Collection	Each	$ 40.45		$ -
12	Direct Push	Commodity	DP75	Temporary Well Installation	Ft	$ 5.41		$ -
12	Direct Push	Commodity	DP80	Mob/Demob (Includes decon)	Site	$ 578.66		$ -
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR05	0 - 25 ft bgs	Ft	$ 5.56		$ -
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR10	26 - 50 ft bgs	Ft	$ 5.84		$ -
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR15	51 - 75 ft bgs	Ft	$ 7.52		$ -
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR20	Primary Mob/Demob	Site	$ 652.34		$ -
13.b	Drilling In Unconsolidated Soils - Without Soil And/Or GW Sampling	Consultant	DR25	Consultant Oversight	Ft	$ 1.63		$ -
13.b	Drilling In Unconsolidated Soils - Without Soil And/Or GW Sampling	Consultant	DR30	Primary Mob/Demob	Site	$ 555.68		$ -
13.c	Drilling In Bedrock	Consultant	DR35	Consultant Oversight	Ft	$ 6.39		$ -
13.c	Drilling In Bedrock	Consultant	DR40	Primary Mob/Demob	Site	$ 652.34		$ -
13.d	Drilling In Unconsolidated Soils - With Soil Sampling	Commodity	DR45	0 - 25 ft bgs	Ft	$ 17.20		$ -
13.d	Drilling In Unconsolidated Soils - With Soil Sampling	Commodity	DR50	26 - 50 ft bgs	Ft	$ 18.93		$ -
13.d	Drilling In Unconsolidated Soils - With Soil Sampling	Commodity	DR55	51 - 75 ft bgs	Ft	$ 22.18		$ -
13.e	Drilling In Unconsolidated Soils - Without Soil And/Or GW Sampling	Commodity	DR60	Drilling in Unconsolidated Soils	Ft	$ 12.33		$ -
13.f	Drilling In Bedrock	Commodity	DR65	Drilling in Bedrock	Ft	$ 34.18		$ -
13.f	Drilling In Bedrock	Commodity	DR70	Bedrock Drilling Setup Charge	Each	$ 166.88		$ -
13.f	Drilling In Bedrock	Commodity	DR75	Air Compressor	Day	$ 439.20		$ -
14	Monitoring Well Installation	Consultant	MWI05	0 - 25 ft bgs	Ft	$ 4.01		$ -
14	Monitoring Well Installation	Consultant	MWI10	26 - 75 ft bgs	Ft	$ 2.81		$ -
14	Monitoring Well Installation	Commodity	MWI15	2 inch PVC Casing	Ft	$ 17.20		$ -
14	Monitoring Well Installation	Commodity	MWI20	Well Development	Well	$ 152.06		$ -
14	Monitoring Well Installation	Commodity	MWI25	Mob/Demob (For development of grout or slurry sealed wells	Site	$ 603.49		$ -
15	Misc. Drilling Activities & Supplies		MDT05	Drill Rig Mob/Demob	Mob/Demob	$ 1,059.72		$ -
15	Misc. Drilling Activities & Supplies		MDT10	Well Cover/flushmount	Each	$ 208.73		$ -
15	Misc. Drilling Activities & Supplies		MDT15	Stickup Well Cover	Each	$ 168.83		$ -

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
15	Misc. Drilling Activities & Supplies		MDT20	Bumper Guard Posts	Each	$ 71.38		$ -
15	Misc. Drilling Activities & Supplies		MDT21	Drum, 55 gal. DOT steel	Each	$ 56.78	6	$ 340.68
15	Misc. Drilling Activities & Supplies		MDT25	Commodity Service Provider Per Diem (drilling and direct push)	Person	$ 209.38		$ -
15	Misc. Drilling Activities & Supplies		MDT30	Well Repair	Well	$ 86.95		$ -
15	Misc. Drilling Activities & Supplies		MDT35	Borehole Abandonment	Foot	$ 5.62		$ -
15	Misc. Drilling Activities & Supplies		MDT40	Concrete Penetration	Each	$ 75.06		$ -
15	Misc. Drilling Activities & Supplies		MDT41	Private Utility Locate	ACTUAL COST			$ -
15	Misc. Drilling Activities & Supplies		MDT45	Padlocks	Each	$ 8.22		$ -
16	Hand Auger Boring		HA05	Hand Augering	Boring	$ 92.69		$ -
16	Hand Auger Boring		HA10	Primary Mob/Demob	Site	$ 611.12		$ -
17	Surface Soil/Sediment/Water Sampling		SSWS05	Sampling	Sample Location	$ 22.18		$ -
17	Surface Soil/Sediment/Water Sampling		SSWS10	Primary Mob/Demob	Site	$ 497.70		$ -
19	Hydraulic Conductivity Testing		HCT05	Hydraulic Conductivity Testing	Well	$ 60.35		$ -
19	Hydraulic Conductivity Testing		HCT10	Primary Mob/Demob	Site	$ 718.07		$ -
20	Soil Boring/Monitoring Well Permits		SBMWP05	Soil Boring/Monitoring Well Permit	Permit	$ 253.50		$ -
20	Soil Boring/Monitoring Well Permits		SBMWP10	Permit Fee (copy of permit & fee receipt required)	Permit Fee			
21	Access Agreements		AA05	Access Agreements	Property	$ 414.00		$ -
22	Soil Investigation Report		SIR05	Soil Investigation Report	Report	$ 3,430.85		$ -
23	Soil And GW Investigation Report		SGIR05	Soil and GW Investigation Report	Report	$ 5,114.31		$ -
24	Limited Soil Excavation	Consultant	LSE05	Consultant Oversight for Limited Soil Excavation	Ton	$ 5.09		$ -
24	Limited Soil Excavation	Consultant	LSE10	Primary Mob/Demob	Site	$ 915.11		$ -
24	Limited Soil Excavation	Commodity	LSE13	Laboratory (see task 24 total on Lab Schedule)	Lab Schedule		0	$ -
24	Limited Soil Excavation	Commodity	LSE15	Limited Soil Excavation	Ton	$ 61.80		$ -
24	Limited Soil Excavation	Commodity	LSE16	Landfill Environmental Fee (provide documentation)	ACTUAL COST			
25	Remediation System Shut Down		SSD05	Permanent	Site	$ 1,128.33		$ -
25	Remediation System Shut Down		SSD10	Temporary	Site	$ 339.16		$ -
25	Remediation System Shut Down		SSD15	Primary Mob/Demob	Site	$ 520.91		$ -
27	Claim Submittal		CS05	Claim Submittal	Claim	$ 603.48	1	$ 603.48
28	Standardized Invoice		SI05	Standardized Invoice	Invoice	$ 18.17	2	$ 36.34
30	Meeting With Regulators		MR05	Meeting with Regulators	Meeting	$ 359.71		$ -
31	Consultant Overnight Per Diem		COPD05	Overnight	Night	$ 125.09		$ -

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
33	Schedule Of Laboratory Maximums	Commodity		Laboratory (see task 33 total on Lab Schedule)	Lab Schedule			$ 375.12
34	Consultant Incremental Mob/Demob		IMD05	Incremental Mob/Demob	Site	$ 295.80		$ -
35	Cap Maintenance Plan		CMP05	Cap Maintenance Plan	Plan	$ 329.64		$ -
36	Change Order Request		COR05	Change Order Request (cost cap exceedance requests)	Change Order	$ 393.23	1	$ 393.23
37	Vapor Point Installation & Sampling		VIS05	Initial Installation & Sampling	Point	$ 510.26		$ -
37	Vapor Point Installation & Sampling		VIS06	Installation Equipment	Day	$ 170.00		$ -
37	Vapor Point Installation & Sampling		VIS10	Mob/Demob	Event	$ 643.95		$ -
37	Vapor Point Installation & Sampling		VIS15	Subsequent Vapor Sampling	Point	$ 369.07		$ -

Variance
Variance

Usual and Customary Standardized Invoice #27
January 2020- June 2020

RR-0113a-E

TOTAL LAB CHARGES	######	TASK 33	12	#####	TASK 24	0	$ -

MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS	MAX COST	SAMPLES	TOTAL	MAX COST	SAMPLES	TOTAL
AIR	A1	Benzene	SAMPLE	$ 46.29		$ -			
AIR	A2	BETX	SAMPLE	$ 50.94		$ -			
AIR	A3	GRO	SAMPLE	$ 47.48		$ -			
AIR	A4	VOC's	SAMPLE	$ 74.09		$ -			
WATER	W1	GRO/PVOC	SAMPLE	$ 30.07		$ -			
WATER	W2	PVOC	SAMPLE	$ 27.80		$ -			
WATER	W3	PVOC + 1,2 DCA	SAMPLE	$ 45.10		$ -			
WATER	W4	PVOC + Naphthalene	SAMPLE	$ 31.26	12	$ 375.12			
WATER	W5	VOC	SAMPLE	$ 74.09		$ -			
WATER	W6	PAH	SAMPLE	$ 75.17		$ -			
WATER	W7	Lead	SAMPLE	$ 12.76		$ -			
WATER	W8	Cadmium	SAMPLE	$ 13.96		$ -			
WATER	W9	Hardness	SAMPLE	$ 12.76		$ -			
WATER	W10	BOD, Total	SAMPLE	$ 24.34		$ -			
WATER	W11	Nitrate	SAMPLE	$ 11.58		$ -			
WATER	W12	Total Kjeldahl	SAMPLE	$ 20.88		$ -			
WATER	W13	Ammonia	SAMPLE	$ 17.42		$ -			
WATER	W14	Sulfate	SAMPLE	$ 10.50		$ -			
WATER	W15	Iron	SAMPLE	$ 10.50		$ -			
WATER	W16	Manganese	SAMPLE	$ 10.50		$ -			
WATER	W17	Alkalinity	SAMPLE	$ 10.50		$ -			
WATER	W18	methane	SAMPLE	$ 47.48		$ -			
WATER	W19	Phosphorous	SAMPLE	$ 18.60		$ -			
WATER	W20	VOC Method 524.2	SAMPLE	$ 181.59		$ -			
WATER	W21	EDB Method 504	SAMPLE	$ 98.31		$ -	MAX COST	SAMPLES	TOTAL
SOILS	S1	GRO	SAMPLE	$ 25.52		$ -	$ 25.52		$ -
SOILS	S2	DRO	SAMPLE	$ 31.26		$ -	$ 31.26		$ -
SOILS	S3	GRO/PVOC	SAMPLE	$ 28.98		$ -	$ 28.98		$ -
SOILS	S4	PVOC	SAMPLE	$ 26.60		$ -	$ 26.60		$ -
SOILS	S5	PVOC + 1,2 DCA + Naphthalene	SAMPLE	$ 50.94		$ -	$ 50.94		$ -
SOILS	S6	PVOC + Naphthalene	SAMPLE	$ 37.10		$ -	$ 37.10		$ -
SOILS	S7	VOC	SAMPLE	$ 74.09		$ -	$ 74.09		$ -
SOILS	S8	SPLP Extraction VOC only	SAMPLE	$ 52.13		$ -	$ 52.13		$ -
SOILS	S9	PAH	SAMPLE	$ 75.17		$ -	$ 75.17		$ -
SOILS	S10	Lead	SAMPLE	$ 12.76		$ -	$ 12.76		$ -

MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS	MAX COST	SAMPLES	TOTAL	MAX COST	SAMPLES	TOTAL
SOILS	S11	Cadmium	SAMPLE	$ 15.04		$ -		**TASK 24 TOTAL**	**$ -**
SOILS	S12	Free Liquid	SAMPLE	$ 11.58		$ -			
SOILS	S13	Flash Point	SAMPLE	$ 26.60		$ -			
SOILS	S14	Grain Size - dry	SAMPLE	$ 44.02		$ -			
SOILS	S15	Grain Size - wet	SAMPLE	$ 59.05		$ -			
SOILS	S16	Bulk Density	SAMPLE	$ 13.96		$ -			
SOILS	S17	Permeability	SAMPLE	$ 42.83		$ -			
SOILS	S18	Nitrogen as Total Kjeldahl	SAMPLE	$ 20.88		$ -			
SOILS	S19	Nitrogen as Ammonia	SAMPLE	$ 17.42		$ -			
SOILS	S20	% Organic Matter	SAMPLE	$ 30.07		$ -			
SOILS	S21	TOC as NPOC	SAMPLE	$ 59.05		$ -			
SOILS	S22	Soil Moisture Content	SAMPLE	$ 7.03		$ -			
SOILS	S23	Air Filled Porosity	SAMPLE	$ 26.60		$ -			
SOILS	S24	% Total Solids	SAMPLE	$ 7.03		$ -			
SOILS	S25	Field Capacity	SAMPLE	$ 28.98		$ -			
SOILS	S26	TCLP Lead	SAMPLE	$ 85.65		$ -			
SOILS	S27	Cation Exchange (Ca, MG, & K)	SAMPLE	$ 27.80		$ -			
SOILS	S28	TCLP Cadmium	SAMPLE	$ 85.65		$ -			
SOILS	S29	TCLP Benzene	SAMPLE	$ 85.65		$ -			
LNAPL	LFPS01	Viscosity + Density Interfacial tension I (LNAPL/water [dyne/cm]) Interfacial tension II (LNAPL/air [dyne/cm]) Interfacial tension III (water/air) [dyne/cm])	SAMPLE	$ 578.17		$ -			
					TASK 33 TOTAL	**$ 375.12**			

Revised 7/1/2019

Usual and Customary Standardized Invoice #27
January 2020- June 2020

RR-0113a-E

LABOR RATES FOR U & C SCHEDULE		SCHEDULE 26	SCHEDULE 27
		7/2019 to 12/2019	1/2020 to 6/2020
LABOR CATEGORY	**DESCRIPTION**	**Maximum Reimbursable Hourly Labor Rate (Effective July 1)**	**Maximum Reimbursable Hourly Labor Rate (Effective January 1)**
PRINCIPAL	Administrative and/or professional head of organization. Typically has a financial interest in the company. Direct professional staff; serve as technical expert or coordinator of complex sites. This rate has not been used in the computation of maximum reimbursable amounts for tasks defined as part of the usual and customary cost schedule.	$ 138.06	$ 138.06
SENIOR PROFESSIONAL	Senior technical leader. Develops technical and budgetary approach to work orders. Duties include aquifer characterization, review of technical reports and remedial action plans, modeling. Provides project supervision and management. Performs design and investigation work in technically complex situations often requiring innovative applications. Fieldwork is limited to performing or overseeing extremely complex activities.This maximum reimbursable rate has not been used in the computation of reimbursable amounts for tasks defined as part of field activities. This rate should be used for Professional Engineer oversight to meet Wis. Admin. Code ch. NR 712	$ 112.96	$ 112.96
PROJECT MANAGER	Has responsibility for managing entire project, including estimating costs within the project, controlling the project budget and ensuring that PECFA statute and rules are followed. May be involved in the development of approaches to site remediation, data analysis and interpretation, and report review. Coordinates and communicates with agency personnel, consultants and claimant. Not expected to conduct field. This maximum reimbursable rate has not been used in the computation of reimbursable amounts for tasks defined as part of field activities.	$ 112.96	$ 112.96
STAFF PROFESSIONAL	Implements field work for on-site investigation and remediation activities including site characterization, drilling supervision, monitoring well installation and sampling activities. Assists in modeling, hydrogeologic data analysis, and report preparation. Consults with higher level professional staff.	$ 94.13	$ 94.13
FIELD PROFESSIONAL	Ability to conduct hydrogeological investigations relating to leaking UST's and must be experienced in overseeing a wide variety of drilling operations, monitor well installations, sample logging and collection and data acquisition and interpretation and have the ability to design, perform and interpret aquifer tests.	$ 81.58	$ 81.58
FIELD TECHNICIAN	Performs assigned fieldwork and routine labor tasks. Assists in equipment installation and maintenance, and subcontractor oversight. Assists with well development, sampling and monitoring, static water level measurements and free product removal. Assists with field supervision of subcontractors.	$ 62.76	$ 62.76
DRAFTING	Technically familiar with basic engineering principles and construction methodologies. Works independently; work product reviewed by Professional Engineer. Proficient with AutoCAD or other forms of Computer Aided Design Drafting.	$ 69.03	$ 69.03
WORD PROCESSOR	Operates computer for word processing and spreadsheet entry. Assists technical and senior personnel with report production, correspondence preparation, and data entry.	$ 43.93	$ 43.93
CLERICAL	Performs general office work, typing, filing, and document reproduction.	$ 43.93	$ 43.93

NOTES:

1) These labor rates include the cost of equipment and supplies used to complete office and field tasks and which are not included on the usual and customary equipment schedule. Separate costs for field and office equipment and supplies that do not appear on the usual and customary equipment schedule are not reimbursable.

2) Reimbursement is based on the maximum rate allowed for a task, not the rate of the individual performing the work. For example, the maximum reimbursement rate for performing monitoring well sampling activities is an amount that cooresponds with a Field Technician rate. However, there is no injunction against an individual with a higher reimbursable rate performing the task. (In other words, any individual that qualifies to perform a given task may perform that task, but reimbursement will be based on the hourly or unit rate for the task, not the pay rate of the individual performing the work.)

3) Owners/operators who are or have personnel qualified to perform any of the tasks defined herein and who use their employees to perform these tasks will only be reimbursed for their cost to perform the task. (i.e., Wis. Admin. Code § NR 747.30(1)(e)(4) applies.)

4) These labor categories - FIELD PROFESSIONAL, STAFF PROFESSIONAL, SENIOR PROFESSIONAL include the following disciplines: Hydrogeologist, Geologist, Scientist and Engineer

revised 1/1/2020

Task #1 - Groundwater Monitoring					
Code	**Task Description**	**Unit**	**Unit Cost**	**Quantity**	**Subtotal**
GS05	Sample Collection	Well	$ 74.62	12.00	$ 895.44
GS25	Primary Mob/Demob	Site	$ 690.92	1.00	$ 690.92
WD05	Consultant Coordination	Site	$ 141.24	1.00	$ 141.24
WD10	GW Sample and/or Purge	Drum	$ 43.37	6.00	$ 260.22
WD25	Primary Mob/Demob	Site	$ 316.47	1.00	$ 316.47
MDT21	Drum, 55 gal. DOT steel	Each	$ 56.78	6.00	$ 340.68
W4	PVOC + Naphthalene	SAMPLE	$ 31.26	12.00	$ 375.12
					$ 3,020.09

Task #2 - Closure Request					
Code	**Task Description**	**Unit**	**Unit Cost**	**Quantity**	**Subtotal**
CR05	Primary Closure Request	EACH	$ 2,781.00	1.00	$ 2,781.00
CR15	Continuing Obligation Submittal (Source Property)	EACH	$ 522.58	1.00	$ 522.58
CR30	PE review and certification of closure packet	Site	$ 1,129.60	1.00	$ 1,129.60
					$ 4,433.18

Task #3 - Well Abandonment					
Code	**Task Description**	**Unit**	**Unit Cost**	**Quantity**	**Subtotal**
WAB05	Coordination	Site	$ 162.86	1.00	$ 162.86
WAB10	Water column < 30 ft	Ft	$ 2.60	160.00	$ 416.00
WAB15	Water column > 30 ft	Ft	$ 9.08	10.00	$ 90.80
WAB20	Bentonite Pellets (50lb bag - 1/4" pellet)	Bag	$ 11.14	15.00	$ 167.10
WAB30	Primary Mob/Demob	Site	$ 398.48	1.00	$ 398.48
WAB40	Well Abandonment (2 inch)	Ft	$ 5.74	170.00	$ 975.80
WAB35	Well Abandonment Mob/Demob	Site	$ 453.81	1.00	$ 453.81
					$ 2,664.85

Task #4 - Administration					
Code	**Task Description**	**Unit**	**Unit Cost**	**Quantity**	**Subtotal**
RC05	Regulatory Correspondence	UPDATE	$ 132.81	2.00	$ 265.62
CS05	Claim Submittal	Claim	$ 603.48	1.00	$ 603.48
SI05	Standardized Invoice	Invoice	$ 18.17	2.00	$ 36.34
COR05	Change Order Request (cost cap exceedance requests)	hange Ord	$ 393.23	1.00	$ 393.23
					$ 1,298.67

$ 11,416.79

Table 2
Groundwater Analytical Results
Remington Oil Bulk Plant
Tomahawk, Wisconsin

			MW-100						MW-200						MW-300						MW-400						MW-800					
All units expressed in ug/l	ES	PAL	10/18/2006	09/30/2011	09/26/2012	12/20/2012	06/03/2014	09/30/2014	10/18/2006	09/30/2011	09/26/2012	12/20/2012	06/03/2014	09/30/2014	10/18/2006	09/30/2011	09/26/2012	12/20/2012	06/03/2014	09/30/2014	10/18/2006	09/30/2011	09/26/2012	12/20/2012	06/03/2014	09/30/2014	10/18/2006	09/30/2011	09/26/2012	12/20/2012	06/03/2014	09/30/2014
VOCs and *PVOCs																																
*Benzene	5	0.5	**97 J**	<24.5	<23	**41 J**	<13.5	<12	**530**	**32 J**	**25.4 J**	**52 J**	**22.9 J**	<12	**3,900**	**440**	**590**	**720**	**540**	**840**	**4,700**	**850**	**1,950**	**2,500**	**2,650**	**1,780**	<47	<24.5	<23	**8.5 J**	*4.0 J*	<2.4
Bromobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NS	NS	<110	NA	0	NA	NA	NA	<110	NA	NA	NA	NA	NA	<110	NA	NA	NA	NA	NA	<110	NA	NA	NA	NA	NA	<110	NA	NA	NA	NA	NA
tert-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NS	NS	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EDB (1,2-Dibromoethane)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
*Ethylbenzene	700	140	**2,690**	**1,860**	**1,870**	**2,460**	*690*	**1,340**	**2,860**	**1,960**	**1,750**	**2,280**	**2,440**	**2,730**	**2,260**	**1,760**	**2,230**	**2,570**	**1,690**	**1,880**	**2,260**	**1,960**	**1,960**	**2,350**	**1,850**	**2,080**	*680*	*279*	*276*	*330*	*267*	*195*
Hexachlorobutadiene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyltoluene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
*Methyl-tert-butyl-ether	60	12	<0.52	<23.5	<28.5	<28.5	<18.5	<11.5	NA	<23.5	<28.5	<28.5	<18.5	<11.5	NA	<23.5	<28.5	<28.5	<18.5	<11.5	NA	<23.5	<28.5	<28.5	<18.5	<11.5	NA	<23.5	<28.5	<5.7	<3.7	<2.3
Naphthalene	100	10	**560 J**	**420**	**280 J**	**490**	NA	**316**	**690**	**550**	**430**	**650**	NA	**750**	**260 J**	**390**	**380**	**460**	NA	**400**	**260 J**	**370**	**235 J**	**440**	NA	**310**	<220	<100	<115	*89*	NA	*56*
n-Propylbenzene	NS	NS	194 J	NA	NA	NA	NA	NA	288	NA	NA	NA	NA	NA	100 J	NA	NA	NA	NA	NA	100 J	NA	NA	NA	NA	NA	98 J	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1,2-Tetrachloroethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
*Toluene	800	160	**8,100**	**3,500**	**3,500**	**5,500**	**3,600**	**3,400**	**10,800**	**5,200**	**4,800**	**6,200**	**5,000**	**4,200**	**9,600**	**2,280**	**1,690**	**1,130**	*550*	**910**	**9,600**	**3,140**	**6,200**	**5,600**	**7,500**	**10,200**	**1,070**	*440*	*360*	*410*	*390*	*215*
1,2,4-Trichlorobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene (TCE)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
*Total Trimethylbenzenes	480	96	**1,790**	**1,287**	**1,132**	**1,740**	*343*	**873 J**	**2,730**	**2,420**	**2,420**	**3,250**	**2,940**	**2,890**	**1,115 J**	**1,389**	**1,440**	**1,750**	**1,201**	**1,274**	**1,115 J**	**1,417**	**1,357**	**1,600**	**1,346**	**1,287**	**1,124 J**	*338 J*	**930**	**847**	*415*	*350*
Vinyl Chloride			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
*Total Xylenes	2,000	400	**13,200**	**9,310**	**8,870**	**11,500**	**2,980**	**6,280**	**13,700**	**9,460**	**8,270**	**10,590**	**12,700**	**13,100**	**11,200**	**7,430**	**8,790**	**10,090**	**6,750**	**6,600**	**11,200**	**9,050**	**8,490**	**10,250**	**8,890**	**9,190**	**3,480**	*1,220*	*1,480*	*1,530*	*1,200*	*846*
Lead	15	1.5	*9.4*	NA	NA	NA	NA	NA	*14*	NA	NA	NA	NA	NA	<0.7	NA	NA	NA	NA	NA	1.3 J	NA	NA	NA	NA	NA	*9.7*	NA	NA	NA	NA	NA
PAHs																																
Acenaphthene	NS	NS	5.0 J	1.22 J	NA	NA	NA	NA	<3.2	1.37 J	NA	NA	NA	NA	<1.6	1.24 J	NA	NA	NA	NA	<1.6	<0.01	NA	NA	NA	NA	<1.6	0.49	NA	NA	NA	NA
Acenaphthylene	NS	NS	<2.4	<0.7	NA	NA	NA	NA	<2.4	<1.4	NA	NA	NA	NA	<1.2	<0.7	NA	NA	NA	NA	<1.2	<0.014	NA	NA	NA	NA	<1.2	0.195 J	NA	NA	NA	NA
Anthracene	3,000	600	<2.6	<0.45	NA	NA	NA	NA	<2.6	<0.9	NA	NA	NA	NA	<1.3	<0.45	NA	NA	NA	NA	<1.3	<0.009	NA	NA	NA	NA	<1.3	<0.09	NA	NA	NA	NA
Benzo(a)anthracene	NS	NS	<2.4	<0.7	NA	NA	NA	NA	<2.4	<1.4	NA	NA	NA	NA	<1.2	<0.7	NA	NA	NA	NA	<1.2	<0.014	NA	NA	NA	NA	<1.2	0.148 J	NA	NA	NA	NA
Benzo(a)pyrene	0.2	0.02	<1.6	<0.55	NA	NA	NA	NA	<1.6	<1.1	NA	NA	NA	NA	<0.80	<0.55	NA	NA	NA	NA	<0.80	<0.011	NA	NA	NA	NA	<0.80	<0.11	NA	NA	NA	NA
Benzo(b)fluoranthene	0.2	0.02	<1.8	<0.65	NA	NA	NA	NA	<1.8	<1.3	NA	NA	NA	NA	<0.90	<0.65	NA	NA	NA	NA	<0.90	<0.013	NA	NA	NA	NA	<0.90	<0.13	NA	NA	NA	NA
Benzo(g,h,i)perylene	NS	NS	<2	<0.75	NA	NA	NA	NA	<2	<1.5	NA	NA	NA	NA	<1.0	<0.75	NA	NA	NA	NA	<1.0	<0.015	NA	NA	NA	NA	<1.0	<0.15	NA	NA	NA	NA
Banzo(k)fluoranthene	NS	NS	<1.8	<0.75	NA	NA	NA	NA	<1.8	<1.5	NA	NA	NA	NA	<0.90	<0.75	NA	NA	NA	NA	<0.90	<0.015	NA	NA	NA	NA	<0.90	<0.15	NA	NA	NA	NA
Chrysene	0.2	0.02	<2.2	<0.65	NA	NA	NA	NA	<2.2	<1.3	NA	NA	NA	NA	<1.1	<0.65	NA	NA	NA	NA	<1.1	<0.013	NA	NA	NA	NA	<1.1	<0.13	NA	NA	NA	NA
Dibenzo(a,h)anthracene	NS	NS	<1.8	<0.8	NA	NA	NA	NA	<1.8	<1.6	NA	NA	NA	NA	<0.90	<0.8	NA	NA	NA	NA	<0.90	<0.016	NA	NA	NA	NA	<0.90	<0.16	NA	NA	NA	NA
Fluoranthene	400	80	<2.2	<0.6	NA	NA	NA	NA	<2.2	<1.2	NA	NA	NA	NA	<1.1	<0.6	NA	NA	NA	NA	<1.1	<0.012	NA	NA	NA	NA	<1.1	<0.12	NA	NA	NA	NA
Fluorene	400	80	10	1.52	NA	NA	NA	NA	<3	2.22 J	NA	NA	NA	NA	<1.5	1.28	NA	NA	NA	NA	<1.5	<0.008	NA	NA	NA	NA	<1.5	0.57	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NS	NS	<3	<0.75	NA	NA	NA	NA	<3	<1.5	NA	NA	NA	NA	<1.5	<0.75	NA	NA	NA	NA	<1.5	<0.015	NA	NA	NA	NA	<1.5	<0.15	NA	NA	NA	NA
1-Methyl naphthalene	NS	NS	186	67	NA	NA	NA	NA	148	154	NA	NA	NA	NA	41	72	NA	NA	NA	NA	23	<0.009	NA	NA	NA	NA	18	25.2	NA	NA	NA	NA
2-Methyl naphthalene	NS	NS	356	102	NA	NA	NA	NA	320	290	NA	NA	NA	NA	69	112	NA	NA	NA	NA	44	<0.013	NA	NA	NA	NA	11	30.7	NA	NA	NA	NA
Naphthalene	100	10	**607**	**360**	NA	NA	NA	NA	**647**	**500**	NA	NA	NA	NA	**290**	**320**	NA	NA	NA	NA	**195**	<0.015	NA	NA	NA	NA	*50*	*50*	NA	NA	NA	NA
Phenanthrene	NS	NS	20	1.61 J	NA	NA	NA	NA	4.5 J	3.5	NA	NA	NA	NA	<1.1	<0.5	NA	NA	NA	NA	<1.1	<0.01	NA	NA	NA	NA	<1.1	0.45	NA	NA	NA	NA
Pyrene	250	50	<2	<0.65	NA	NA	NA	NA	<2	<1.3	NA	NA	NA	NA	<1.0	<0.65	NA	NA	NA	NA	<1.0	<0.013	NA	NA	NA	NA	<1.0	0.145 J	NA	NA	NA	NA

Notes:
PVOC - Petroleum Volatile Organic Compounds
PAHs - Polynuclear Aromatic Hydrocarbons
µg/L - micrograms per liter
NA - Not Analyzed or Not Sampled
WAC - Wisconsin Administrative Code
ES - WAC Chapter NR140 Enforcement Standard
PAL - WAC Chapter NR140 Preventive Action Limit
ITALICS - Detected concentration exceeds PAL
BOLD - Detected concentration exceeds ES
NS - No Established Standard
J - Analyte detected between the limit of detection (LOD) and the Limit of Quantification (LOQ). Result is an estimate.

Table 2
Groundwater Analytical Results
Remington Oil Bulk Plant
Tomahawk, Wisconsin

			MW-900						MW-1200				MW-1300				PZ-300				SP-1				SP-2				MW 1400		MW 1500		W001
All units expressed in ug/l	ES	PAL	10/18/2006	09/30/2011	09/26/2012	12/20/2012	06/03/2014	09/30/2014	09/26/2012	12/20/2012	06/03/2014	09/30/2014	09/26/2012	12/20/2012	06/03/2014	09/30/2014	09/26/2012	12/20/2012	06/03/2014	09/30/2014	09/26/2012	12/20/2012	06/03/2014	09/30/2014	09/26/2012	12/20/2012	06/03/2014	09/30/2014	06/03/2014	09/30/2014	06/03/2014	09/30/2014	06/03/2014
VOCs and *PVOCs																																	
*Benzene	5	0.5	<0.47	<0.5	**10**	**8.6**	*2.67*	<0.24	**97**	**228**	**91**	**27.4**	<0.5	*2.73*	0.34 J	<0.24	**5.7 J**	**11.4**	*1.8*	<0.24	<0.5	**480**	**690**	**560**	<0.5	**400**	**490**	**490**	< 0.24	<0.24	< 0.24	<0.24	< 0.24
Bromobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.32	NA	< 0.32	NA	< 0.32
Bromodichloromethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA	< 0.37	NA	< 0.37
Bromoform			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.35	NA	< 0.35	NA	< 0.35
n-Butylbenzene	NS	NS	1.73 J	NA	NA	NA	NA	NA	8.4	NA	NA	NA	<0.9	NA	NA	NA	<9	NA	NA	NA	<0.9	NA	NA	NA	<0.9	NA	NA	NA	< 0.35	NA	< 0.35	NA	< 0.35
tert-Butylbenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.36	NA	< 0.36	NA	< 0.36
sec-Butylbenzene	NS	NS	NA	NA	NA	NA	NA	NA	*2.43 J*	NA	NA	NA	<1	NA	NA	NA	<10	NA	NA	NA	<1	NA	NA	NA	<1	NA	NA	NA	< 0.33	NA	< 0.33	NA	<0.33
Carbon Tetrachloride			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.33	NA	< 0.33	NA	< 0.33
Chlorobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.24	NA	< 0.24	NA	< 0.24
Chloroethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.63	NA	< 0.63	NA	< 0.63
Chloroform			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	< 0.28	NA	< 0.28
Chloromethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.81	NA	< 0.81	NA	< 0.81
2-Chlorotoluene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	NA	< 0.21	NA	< 0.21
4-Chlorotoluene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	NA	< 0.21	NA	< 0.21
1,2-Dibromo-3-chloropropane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.88	NA	< 0.88	NA	< 0.88
Dibromochloromethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.22	NA	< 0.22	NA	< 0.22
1,4-Dichlorobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.3	NA	< 0.3	NA	< 0.3
1,3-Dichlorobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	< 0.28	NA	< 0.28
1,2-Dichlorobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.36	NA	< 0.36	NA	< 0.36
Dichlorodifluoromethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.44	NA	< 0.44	NA	< 0.44
1,2-Dichloroethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.41	NA	< 0.41	NA	< 0.41
1,1-Dichloroethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.3	NA	< 0.3	NA	< 0.3
1,1-Dichloroethene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.4	NA	< 0.4	NA	< 0.4
cis-1,2-Dichloroethene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.38	NA	< 0.38	NA	< 0.38
trans-1,2-Dichloroethene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.35	NA	< 0.35	NA	< 0.35
1,2-Dichloropropane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.32	NA	< 0.32	NA	< 0.32
2,2-Dichloropropane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.36	NA	< 0.36	NA	< 0.36
1,3-Dichloropropane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.33	NA	< 0.33	NA	< 0.33
Di-isopropyl ether			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.23	NA	< 0.23	NA	< 0.23
EDB (1,2-Dibromoethane)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.44	NA	< 0.44	NA	< 0.44
*Ethylbenzene	700	140	1.13 J	<0.78	0.56 J	0.93 J	<0.82	<0.55	115	*186*	49	23.9	<0.78	<0.46	<0.82	<0.55	23.7 J	32	<0.82	<0.55	<0.78	38	41	38	<0.78	69	112	*147*	< 0.55	<0.55	< 0.55	<0.55	< 0.55
Hexachlorobutadiene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	NA	< 1.5	NA	< 1.5
Isopropylbenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.3	NA	< 0.3	NA	< 0.3
Isopropyltoluene	NS	NS	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	0	NA	NA	NA	0	NA	NA	NA	0	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NS	NS	NA	NA	NA	NA	NA	NA	31.2	NA	NA	NA	<0.92	NA	NA	NA	126	NA	NA	NA	<0.92	NA	NA	NA	<0.92	NA	NA	NA	< 0.31	NA	< 0.31	NA	< 0.31
Methylene chloride			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	< 0.5	NA	0.5
*Methyl-tert-butyl-ether	60	12	NA	<0.8	<0.57	<0.57	<0.37	<0.23	<0.8	<5.7	<0.37	<2.3	<0.8	<0.57	<0.37	<0.23	<8	<0.57	<0.37	<0.23	<0.8	1.26 J	<3.7	<2.3	<0.8	3.6	4.2	<2.3	< 0.23	<0.23	< 0.23	<0.23	< 0.23
Naphthalene	100	10	<2.2	<2.1	<2.3	<2.3	NA	<1.7	*28.4*	*47 J*	NA	<17	<2.1	<2.3	NA	<1.7	<21	**20**	NA	<1.7	<2.1	<2.3	NA	<17	<2.1	5.0 J	NA	<17	< 1.7	<1.7	< 1.7	<1.7	< 1.7
n-Propylbenzene	NS	NS	3.4	NA	NA	NA	NA	NA	24.2	NA	NA	NA	<0.59	NA	NA	NA	10.5 J	NA	NA	NA	<0.59	NA	NA	NA	<0.59	NA	NA	NA	< 0.25	NA	< 0.25	NA	< 0.25
1,1,2,2-Tetrachloroethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.45	NA	< 0.45	NA	< 0.45
1,1,1,2-Tetrachloroethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.33	NA	< 0.33	NA	< 0.33
Tetrachloroethene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.33	NA	< 0.33	NA	< 0.33
*Toluene	800	160	<0.59	<0.53	<0.48	<0.48	<0.8	<0.69	*500*	**930**	*303*	*166*	<0.53	<0.48	<0.8	<0.69	<5.3	1.3 J	<0.8	<0.69	0.62 J	20.1	25.4 J	20.1 J	13.1	21.7	35	52	< 0.69	<0.69	< 0.69	<0.69	< 0.69
1,2,4-Trichlorobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.98	NA	< 0.98	NA	< 0.98
1,2,3-Trichlorobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.8	NA	< 1.8	NA	< 1.8
1,1,1-Trichloroethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.33	NA	< 0.33	NA	< 0.33
1,1,2-Trichloroethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.34	NA	< 0.34	NA	< 0.34
Trichloroethene (TCE)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.33	NA	< 0.33	NA	< 0.33
Trichlorofluoromethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.71	NA	< 0.71	NA	< 0.71
*Total Trimethylbenzenes	480	96	22.4	13.3	2.17 J	3.8	<3.52	<3.6	*263*	*372*	*97.1 J*	35 J	<1.5	<1.57	<1.69	<3.6	64 J	27.3	<1.69	<3.6	<1.5	12.4	20.7 J	<36	1.52 J	50	*115.6*	*127.8*	<3.6	<3.6	<3.6	<3.6	<3.6
Vinyl Chloride			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	NA	< 0.18	NA	<0.18
*Total Xylenes	2,000	400	6.22	2.05 J	1.18 J	3.45 J	<2.7 J	<1.32	*600*	*905*	247	122	<1.9	<1.45	<2.41	<1.32	62	16.0	<2.41	<1.32	<1.9	139.0	165.0	152.0	1.2 J	178	370	*491*	<1.32	<1.32	<1.32	<1.32	<1.32
Lead	15	1.5	<0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PAHs																																	
Acenaphthene	NS	NS	0.040 J	0.013 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NS	NS	0.030 J	<0.014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	3,000	600	0.058	<0.009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NS	NS	0.035 J	0.016 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.2	0.02	0.019 J	<0.011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.2	0.02	*0.022 J*	<0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NS	NS	0.041	<0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Banzo(k)fluoranthene	NS	NS	<0.009	<0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	0.2	0.02	0.041	<0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	NS	NS	<0.009	<0.016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	400	80	0.11	<0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	400	80	0.05	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NS	NS	<0.015	<0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyl naphthalene	NS	NS	1.0	0.216	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl naphthalene	NS	NS	0.09	0.062	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	100	10	1.4	0.154	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NS	NS	0.068	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	250	50	0.24	0.032 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
PVOC - Petroleum Volatile Organic Compounds
PAHs - Polynuclear Aromatic Hydrocarbons
µg/L - micrograms per liter
NA - Not Analyzed or Not Sampled
WAC - Wisconsin Administrative Code
ES - WAC Chapter NR140 Enforcement Standard
PAL - WAC Chapter NR140 Preventive Action Limit
ITALICS - Detected concentration exceeds PAL
BOLD - Detected concentration exceeds ES
NS - No Established Standard
msl - mean sea level
J - Analyte detected between the limit of detection (LOD) and the Limit of Quantification (LOQ). Result is an estimate.

Table 1
Groundwater Monitoring Results
MW-100
Remington Oil Bulk Plant
Tomahawk, Wisconsin

All units expressed in ug/l	ES	PAL	10/18/2006	09/30/2011	06/03/2014	09/30/2014
PVOCs						
Benzene	5	0.5	**97 J**	<24.5		
n-Butylbenzene	NS	NS	<110	NA		
Ethylbenzene	700	140	**2,690**	**1,860**		
Methyl-tert-butyl-ether	60	12	<0.52	<23.5		
Naphthalene	100	10	**560 J**	**420**		
n-Propylbenzene	NS	NS	**194 J**	NA		
Toluene	800	160	**8,100**	**3,500**		
Total Trimethylbenzenes	480	96	**1,790**	**1,287**		
Total Xylenes	2,000	400	**13,200**	**9,310**		
Lead	15	1.5	**9.4**	NA		
PAHs						
Acenaphthene	NS	NS	**5.0 J**	**1.22 J**		
Acenaphthylene	NS	NS	<2.4	<0.7		
Anthracene	3,000	600	<2.6	<0.45		
Benzo(a)anthracene	NS	NS	<2.4	<0.7		
Benzo(a)pyrene	0.2	0.02	<1.6	<0.55		
Benzo(b)fluoranthene	0.2	0.02	<1.8	<0.65		
Benzo(g,h,i)perylene	NS	NS	<2	<0.75		
Banzo(k)fluoranthene	NS	NS	<1.8	<0.75		
Chrysene	0.2	0.02	<2.2	<0.65		
Dibenzo(a,h)anthracene	NS	NS	<1.8	<0.8		
Fluoranthene	400	80	<2.2	<0.6		
Fluorene	400	80	**10**	**1.52**		
Indeno(1,2,3-cd)pyrene	NS	NS	<3	<0.75		
1-Methyl naphthalene	NS	NS	**186**	**67**		
2-Methyl naphthalene	NS	NS	**356**	**102**		
Naphthalene	40	8	**607**	**360**		
Phenanthrene	NS	NS	**20**	**1.61 J**		
Pyrene	250	50	<2	<0.65		
Water Elevation (msl)			0.00	0.00		
FP Thickness (feet)			0.00	0.00		

PVOC - Petroleum Volatile Organic Compounds
PAH - Polynuclear Aromatic Hydrocarbons
µg/L - micrograms per liter
NA - Not Analyzed
LNAPL - Light Non-Aqueous Phase Liquid
WAC - Wisconsin Administrative Code
ES - WAC Chapter NR140 Enforcement Standard
PAL - WAC Chapter NR140 Preventive Action Limit
BOLD - Detected concentration exceeds PAL
BOLD - Detected concentration exceeds ES
NS - No Established Standard
msl - mean sea level
J - Analyte detected between the limit of detection (LOD) and the Limit of Quantification (LOQ). Result is an estimate.

Table 1
Groundwater Monitoring Results
MW-200
Remington Oil Bulk Plant
Tomahawk, Wisconsin

All units expressed in ug/l	ES	PAL	10/18/2006	09/30/2011	06/03/2014	09/30/2014
PVOCs						
Benzene	5	0.5	**530**	**32 J**		
n-Butylbenzene	NS	NS	<110	NA		
sec-Butylbenzene	NS	NS	NA	NA		
Ethylbenzene	700	140	**2,860**	**1,960**		
Isopropyltoluene	NS	NS	NA	NA		
p-Isopropyltoluene	NS	NS	NA	NA		
Methyl-tert-butyl-ether	60	12	NA	<23.5		
Naphthalene	100	10	**690**	**550**		
n-Propylbenzene	NS	NS	**288**	NA		
Toluene	800	160	**10,800**	**5,200**		
Total Trimethylbenzenes	480	96	**2,730**	**2,420**		
Total Xylenes	2,000	400	**13,700**	**9,460**		
Lead	15	1.5	**14**	NA		
PAHs						
Acenaphthene	NS	NS	<3.2	**1.37 J**		
Acenaphthylene	NS	NS	<2.4	<1.4		
Anthracene	3,000	600	<2.6	<0.9		
Benzo(a)anthracene	NS	NS	<2.4	<1.4		
Benzo(a)pyrene	0.2	0.02	<1.6	<1.1		
Benzo(b)fluoranthene	0.2	0.02	<1.8	<1.3		
Benzo(g,h,i)perylene	NS	NS	<2	<1.5		
Banzo(k)fluoranthene	NS	NS	<1.8	<1.5		
Chrysene	0.2	0.02	<2.2	<1.3		
Dibenzo(a,h)anthracene	NS	NS	<1.8	<1.6		
Fluoranthene	400	80	<2.2	<1.2		
Fluorene	400	80	<3	**2.22 J**		
Indeno(1,2,3-cd)pyrene	NS	NS	<3	<1.5		
1-Methyl naphthalene	NS	NS	**148**	**154**		
2-Methyl naphthalene	NS	NS	**320**	**290**		
Naphthalene	40	8	**647**	**500**		
Phenanthrene	NS	NS	**4.5 J**	**3.5**		
Pyrene	250	50	<2	<1.3		
Water Elevation (msl)			0.00	0.00		
FP Thickness (feet)			0.00	0.00		

PVOC - Petroleum Volatile Organic Compounds
PAH - Polynuclear Aromatic Hydrocarbons
µg/L - micrograms per liter
NA - Not Analyzed
LNAPL - Light Non-Aqueous Phase Liquid
WAC - Wisconsin Administrative Code
ES - WAC Chapter NR140 Enforcement Standard
PAL - WAC Chapter NR140 Preventive Action Limit
BOLD - Detected concentration exceeds PAL
BOLD - Detected concentration exceeds ES
NS - No Established Standard
msl - mean sea level
J - Analyte detected between the limit of detection (LOD) and the Limit of Quantification (LOQ). Result is an estimate.

Table 1
Groundwater Monitoring Results
MW-300
Remington Oil Bulk Plant
Tomahawk, Wisconsin

All units expressed in ug/l	ES	PAL	10/18/2006	09/30/2011	06/03/2014	09/30/2014
PVOCs						
Benzene	5	0.5	**<u>3,900</u>**	**<u>440</u>**	540	
n-Butylbenzene	NS	NS	<110	NA		
sec-Butylbenzene	NS	NS	NA	NA		
Ethylbenzene	700	140	**<u>2,260</u>**	**<u>1,760</u>**	1690	
Isopropyltoluene	NS	NS	NA	NA		
p-Isopropyltoluene	NS	NS	NA	NA		
Methyl-tert-butyl-ether	60	12	NA	<23.5	<18.5	
Naphthalene	100	10	**<u>260 J</u>**	**<u>390</u>**		
n-Propylbenzene	NS	NS	**100 J**	NA		
Toluene	800	160	**<u>9,600</u>**	**<u>2,280</u>**	550	
Total Trimethylbenzenes	480	96	**<u>1,115 J</u>**	**<u>1,389</u>**	1201	
Total Xylenes	2,000	400	**<u>11,200</u>**	**<u>7,430</u>**	6750	
Lead	15	1.5	<0.7	NA		
PAHs						
Acenaphthene	NS	NS	<1.6	**1.24 J**		
Acenaphthylene	NS	NS	<1.2	<0.7		
Anthracene	3,000	600	<1.3	<0.45		
Benzo(a)anthracene	NS	NS	<1.2	<0.7		
Benzo(a)pyrene	0.2	0.02	<0.80	<0.55		
Benzo(b)fluoranthene	0.2	0.02	<0.90	<0.65		
Benzo(g,h,i)perylene	NS	NS	<1.0	<0.75		
Banzo(k)fluoranthene	NS	NS	<0.90	<0.75		
Chrysene	0.2	0.02	<1.1	<0.65		
Dibenzo(a,h)anthracene	NS	NS	<0.90	<0.8		
Fluoranthene	400	80	<1.1	<0.6		
Fluorene	400	80	<1.5	1.28		
Indeno(1,2,3-cd)pyrene	NS	NS	<1.5	<0.75		
1-Methyl naphthalene	NS	NS	**41**	**72**		
2-Methyl naphthalene	NS	NS	**69**	**112**		
Naphthalene	40	8	**<u>290</u>**	**<u>320</u>**		
Phenanthrene	NS	NS	<1.1	<0.5		
Pyrene	250	50	<1.0	<0.65		
Water Elevation (msl)			0.00	0.00		
FP Thickness (feet)			0.00	0.00		

PVOC - Petroleum Volatile Organic Compounds
PAH - Polynuclear Aromatic Hydrocarbons
µg/L - micrograms per liter
NA - Not Analyzed
LNAPL - Light Non-Aqueous Phase Liquid
WAC - Wisconsin Administrative Code
ES - WAC Chapter NR140 Enforcement Standard
PAL - WAC Chapter NR140 Preventive Action Limit
BOLD - Detected concentration exceeds PAL
<u>BOLD</u> - Detected concentration exceeds ES
NS - No Established Standard
msl - mean sea level
J - Analyte detected between the limit of detection (LOD) and the Limit of Quantification (LOQ). Result is an estimate.

Table 1
Groundwater Monitoring Results
MW-400
Remington Oil Bulk Plant
Tomahawk, Wisconsin

All units expressed in ug/l	ES	PAL	10/18/2006	09/30/2011	06/03/2014	09/30/2014
PVOCs						
Benzene	5	0.5	**4,700**	**850**	2650	
n-Butylbenzene	NS	NS	<110	NA		
sec-Butylbenzene	NS	NS	NA	NA		
Ethylbenzene	700	140	**2,260**	**1,960**	1850	
Isopropyltoluene	NS	NS	NA	NA		
p-Isopropyltoluene	NS	NS	NA	NA		
Methyl-tert-butyl-ether	60	12	NA	<23.5	<18.5	
Naphthalene	100	10	**260 J**	**370**		
n-Propylbenzene	NS	NS	**100 J**	NA		
Toluene	800	160	**9,600**	**3,140**	7500	
Total Trimethylbenzenes	480	96	**1,115 J**	**1,417**	1346	
Total Xylenes	2,000	400	**11,200**	**9,050**	8890	
Lead	15	1.5	**1.3 J**	NA		
PAHs						
Acenaphthene	NS	NS	<1.6	<0.01		
Acenaphthylene	NS	NS	<1.2	<0.014		
Anthracene	3,000	600	<1.3	<0.009		
Benzo(a)anthracene	NS	NS	<1.2	<0.014		
Benzo(a)pyrene	0.2	0.02	<0.80	<0.011		
Benzo(b)fluoranthene	0.2	0.02	<0.90	<0.013		
Benzo(g,h,i)perylene	NS	NS	<1.0	<0.015		
Banzo(k)fluoranthene	NS	NS	<0.90	<0.015		
Chrysene	0.2	0.02	<1.1	<0.013		
Dibenzo(a,h)anthracene	NS	NS	<0.90	<0.016		
Fluoranthene	400	80	<1.1	<0.012		
Fluorene	400	80	<1.5	<0.008		
Indeno(1,2,3-cd)pyrene	NS	NS	<1.5	<0.015		
1-Methyl naphthalene	NS	NS	**23**	<0.009		
2-Methyl naphthalene	NS	NS	**44**	<0.013		
Naphthalene	40	8	**195**	<0.015		
Phenanthrene	NS	NS	<1.1	<0.01		
Pyrene	250	50	<1.0	<0.013		
Water Elevation (msl)			0.00	0.00		
FP Thickness (feet)			0.00	0.00		

PVOC - Petroleum Volatile Organic Compounds
PAH - Polynuclear Aromatic Hydrocarbons
µg/L - micrograms per liter
NA - Not Analyzed
LNAPL - Light Non-Aqueous Phase Liquid
WAC - Wisconsin Administrative Code
ES - WAC Chapter NR140 Enforcement Standard
PAL - WAC Chapter NR140 Preventive Action Limit
BOLD - Detected concentration exceeds PAL
BOLD - Detected concentration exceeds ES
NS - No Established Standard
msl - mean sea level
J - Analyte detected between the limit of detection (LOD) and the Limit of Quantification (LOQ). Result is an estimate.

Table 1
Groundwater Monitoring Results
MW-800
Remington Oil Bulk Plant
Tomahawk, Wisconsin

All units expressed in ug/l	ES	PAL	10/18/2006	09/30/2011	06/03/2014	09/30/2014
PVOCs						
Benzene	5	0.5	<47	<24.5	4.0 J	
n-Butylbenzene	NS	NS	<110	NA		
sec-Butylbenzene	NS	NS	NA	NA		
Ethylbenzene	700	140	**680**	**279**	267	
Isopropyltoluene	NS	NS	NA	NA		
p-Isopropyltoluene	NS	NS	NA	NA		
Methyl-tert-butyl-ether	60	12	NA	<23.5	<3.7	
Naphthalene	100	10	**<220**	<100		
n-Propylbenzene	NS	NS	**98 J**	NA		
Toluene	800	160	**1,070**	**440**	390	
Total Trimethylbenzenes	480	96	**1,124 J**	**338 J**	415	
Total Xylenes	2,000	400	**3,480**	**1,220**	1200	
Lead	15	1.5	**9.7**	NA		
PAHs						
Acenaphthene	NS	NS	<1.6	**0.49**		
Acenaphthylene	NS	NS	<1.2	**0.195 J**		
Anthracene	3,000	600	<1.3	<0.09		
Benzo(a)anthracene	NS	NS	<1.2	**0.148 J**		
Benzo(a)pyrene	0.2	0.02	<0.80	<0.11		
Benzo(b)fluoranthene	0.2	0.02	<0.90	<0.13		
Benzo(g,h,i)perylene	NS	NS	<1.0	<0.15		
Banzo(k)fluoranthene	NS	NS	<0.90	<0.15		
Chrysene	0.2	0.02	<1.1	<0.13		
Dibenzo(a,h)anthracene	NS	NS	<0.90	<0.16		
Fluoranthene	400	80	<1.1	<0.12		
Fluorene	400	80	<1.5	0.57		
Indeno(1,2,3-cd)pyrene	NS	NS	<1.5	<0.15		
1-Methyl naphthalene	NS	NS	**18**	**25.2**		
2-Methyl naphthalene	NS	NS	**11**	**30.7**		
Naphthalene	40	8	**50**	**50**		
Phenanthrene	NS	NS	<1.1	**0.45**		
Pyrene	250	50	<1.0	**0.145 J**		
Water Elevation (msl)			0.00	0.00		
FP Thickness (feet)			0.00	0.00		

PVOC - Petroleum Volatile Organic Compounds
PAH - Polynuclear Aromatic Hydrocarbons
µg/L - micrograms per liter
NA - Not Analyzed
LNAPL - Light Non-Aqueous Phase Liquid
WAC - Wisconsin Administrative Code
ES - WAC Chapter NR140 Enforcement Standard
PAL - WAC Chapter NR140 Preventive Action Limit
BOLD - Detected concentration exceeds PAL
BOLD - Detected concentration exceeds ES
NS - No Established Standard
msl - mean sea level
J - Analyte detected between the limit of detection (LOD) and the Limit of Quantification (LOQ). Result is an estimate.

Table 1
Groundwater Monitoring Results
MW-900
Remington Oil Bulk Plant
Tomahawk, Wisconsin

All units expressed in ug/l	ES	PAL	10/18/2006	09/30/2011	06/03/2014	09/30/2014
PVOCs						
Benzene	5	0.5	<0.47	<0.5		
n-Butylbenzene	NS	NS	**1.73 J**	NA		
sec-Butylbenzene	NS	NS	NA	NA		
Ethylbenzene	700	140	**1.13 J**	<0.78		
Isopropyltoluene	NS	NS	NA	NA		
p-Isopropyltoluene	NS	NS	NA	NA		
Methyl-tert-butyl-ether	60	12	NA	<0.8		
Naphthalene	100	10	<2.2	<2.1		
n-Propylbenzene	NS	NS	**3.4**	NA		
Toluene	800	160	<0.59	<0.53		
Total Trimethylbenzenes	480	96	**22.4**	**13.3**		
Total Xylenes	2,000	400	**6.22**	**2.05 J**		
Lead	15	1.5	<0.7	NA		
PAHs						
Acenaphthene	NS	NS	**0.040 J**	**0.013 J**		
Acenaphthylene	NS	NS	**0.030 J**	<0.014		
Anthracene	3,000	600	**0.058**	<0.009		
Benzo(a)anthracene	NS	NS	**0.035 J**	0.016 J		
Benzo(a)pyrene	0.2	0.02	**0.019 J**	<0.011		
Benzo(b)fluoranthene	0.2	0.02	**0.022 J**	<0.013		
Benzo(g,h,i)perylene	NS	NS	**0.041**	<0.015		
Banzo(k)fluoranthene	NS	NS	<0.009	<0.015		
Chrysene	0.2	0.02	0.041	<0.013		
Dibenzo(a,h)anthracene	NS	NS	<0.009	<0.016		
Fluoranthene	400	80	**0.11**	<0.012		
Fluorene	400	80	**0.1**	**0.03**		
Indeno(1,2,3-cd)pyrene	NS	NS	<0.015	<0.015		
1-Methyl naphthalene	NS	NS	**1.0**	**0.216**		
2-Methyl naphthalene	NS	NS	**0.09**	**0.062**		
Naphthalene	40	8	**1.4**	**0.154**		
Phenanthrene	NS	NS	**0.068**	<0.01		
Pyrene	250	50	**0.24**	**0.032 J**		
Water Elevation (msl)			0.00	0.00		
FP Thickness (feet)			0.00	0.00		

PVOC - Petroleum Volatile Organic Compounds
PAH - Polynuclear Aromatic Hydrocarbons
µg/L - micrograms per liter
NA - Not Analyzed
LNAPL - Light Non-Aqueous Phase Liquid
WAC - Wisconsin Administrative Code
ES - WAC Chapter NR140 Enforcement Standard
PAL - WAC Chapter NR140 Preventive Action Limit
BOLD - Detected concentration exceeds PAL
BOLD - Detected concentration exceeds ES
NS - No Established Standard
msl - mean sea level
J - Analyte detected between the limit of detection (LOD) and the Limit of Quantification (LOQ). Result is an estimate.