













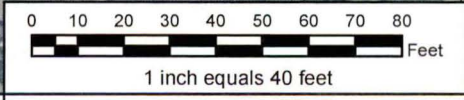


-  Proposed Well Locations
-  GW Monitoring Wells
-  Extraction Sump
-  2003 Air Sparge Wells
-  AS/VE Piping Trench
-  Catch Basins
-  Oil-Water Separator
-  Product Supply Lines
-  Sanitary Sewer
-  Communications
-  Electricity
-  Municipal Water
-  Stormwater
-  2014 Tax Parcel Boundaries



All data are approximate and should be used for relative location reference only.

2015 Aerial Photograph (GoogleEarth).

Prepared for:

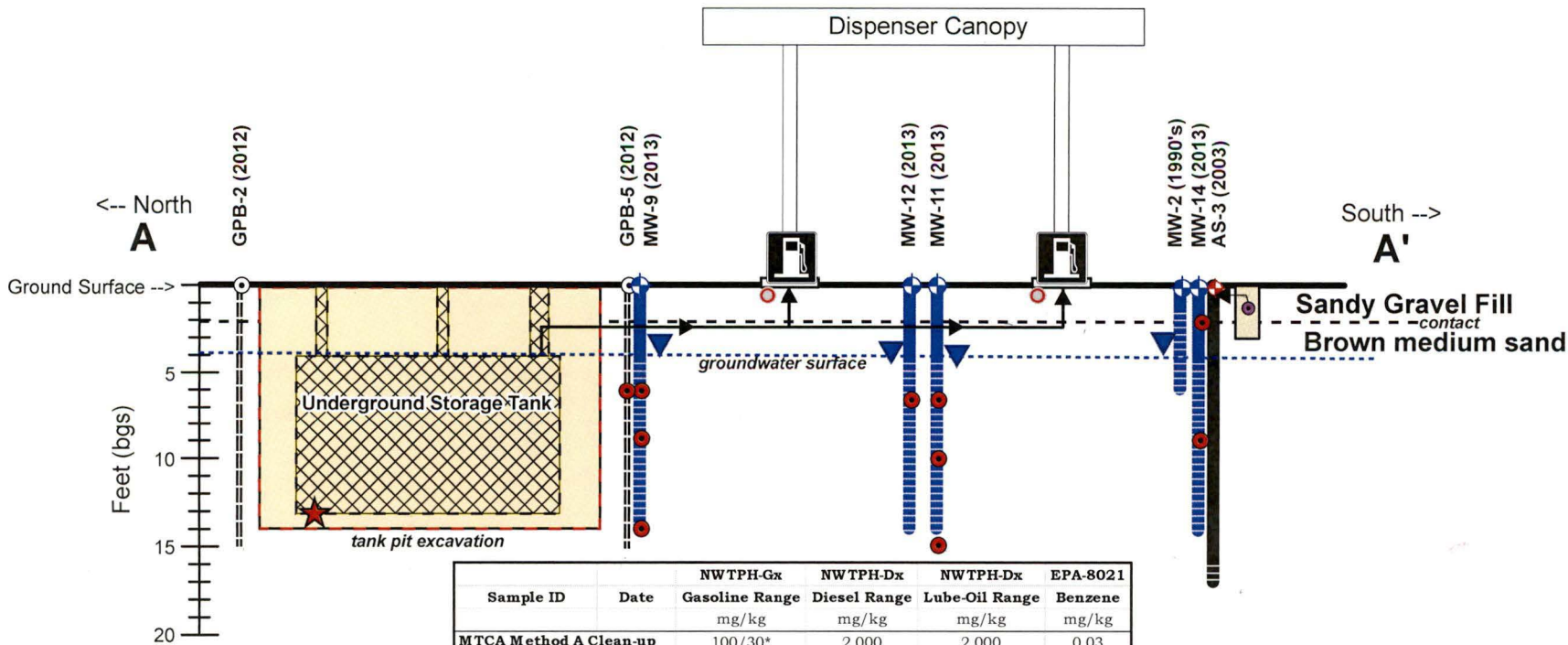
Kris's Mini Mart

Prepared by:

nwhatcom
ENVIRONMENTAL

Proposed Well Location Map

Kris's Mini Mart	Figure 1
05/05/16	



2x vertical exaggeration

▼ - DTW data collected on 5/23/2013

Sample ID	Date	NWTPH-Gx	NWTPH-Dx	NWTPH-Dx	EPA-8021
		Gasoline Range mg/kg	Diesel Range mg/kg	Lube-Oil Range mg/kg	Benzene mg/kg
MTCA Method A Clean-up Levels					
		100/30*	2,000	2,000	0.03
GPB-5 (6ft)	09/10/12	460	ND(<25)	ND(<50)	ND(<0.30)
B-9 (6 ft)	5/7/13	1300	ND(<220)	ND(<50)	ND(<0.60)
B-9 (9 ft)	5/7/13	92	ND(<25)	ND(<50)	ND(<0.06)
B-9 (14 ft)	5/7/13	ND(<3.0)	ND(<25)	ND(<50)	0.12
B-12 (6.5 ft)	5/9/13	2600	ND(<220)	ND(<50)	ND(<1.2)
B-11 (6.5 ft)	5/9/13	3000	ND(<220)	ND(<50)	ND(<1.5)
B-11 (10 ft)	5/9/13	59	ND(<25)	ND(<50)	ND(<0.03)
B-11 (15 ft)	5/9/13	ND(<3.0)	NA	NA	ND(<0.03)
B-14 (2 ft)	5/7/13	ND(<130)	2200	1400	ND(<0.30)
B-14 (6 ft)	5/7/13	ND(<3.0)	330	310	ND(<0.03)
B-14 (9 ft)	5/7/13	ND(<70)	2600	950	ND(<0.30)

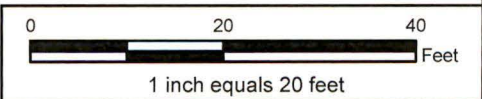
* - Cleanup level dependent on BTEX concentrations
 ND - indicates analyte was not detected at level above reporting limit (shown in parentheses)
 NA - indicates that the sample was Not Analyzed for the specified analyte
BOLD - indicates that the concentration in the sample exceeds the MTCA Method A target cleanup levels
italics - indicated that the laboratory reporting limit was raised above the MTCA Method A target cleanup level
 All samples collected using EPA Method 5035A

- ★ Location of Gx Release
- Soil Sample (>MTCA A)
- ↗ Piping (Fuel & Air)
- ⊙ GeoProbe Boring
- ⊕ GW Monitoring Well
- ⊕ Air Sparge Well
- ⊕ Air Sparge Line
- Electrical Line

All data are approximate and should be used for relative location reference only.

Prepared for:
Kris' Mini-Mart

Prepared by:
nwhatcom ENVIRONMENTAL



Cross-Section A - A'

Kris' Mini Mart
4/29/14

Figure 2

Boring Log

Project: Kris's Mini Mart
 Client: Narain Naidu/Colony Insurance
 Boring Number: **GPB-5**
 Location: South side of Tank Pit
 Date Completed: 9/10/2012

Sheet: 1 of 1
 Drilled by Cascade Drilling
 Logged by: Thomas Davis
 First Encountered Water: ~6.0 ft
 Total Depth: 15'

Depth/Description	Depth of Screening	PID (ppm)	Sheen	Sample
0 - 0.33' Asphalt	<i>see Note below</i>			
0.33 - 1' Sandy Gravel		0.0	NS	
1 - 15' Medium sand, brown, loose, moist to wet	@ 1'	0.0	NS	
		<i>began detecting odor at ~5.5' bgs</i>		
	@ 6'	428	MS	@ 6 ft
	@ 7'	50	VSS	
	@ 8'	12	NS	
	@ 9'	12	NS	
WATER SAMPLE COLLECTED	@ 10'	8	NS	
	@ 12'	5	NS	
	@ 15'	0.0	NS	@ 15 ft
<i>Note: PID used to field screen soil cores at intervals of approximately 0.5 ft</i>				

WHATCOM ENVIRONMENTAL SERVICES INC.

www.whatcomenvironmental.com

NS = No Sheen; VSS = Very Slight Sheen; SS = Slight Sheen; MS = Moderate Sheen; HS = Heavy Sheen

Boring Log

Project: Kris' Mini Mart
 Client: Narian Naidu
 Boring Number: B-9
 Location: South center of UST pit
 Date Completed: 5/7/2013

Sheet: 1 of 1
 Drilled by: EDI - Tom Adams
 Logged by: Thom Davis
 First Encountered Water: 4 ft
 Total Depth: 14 feet bgs

Depth/Description	Blow Count*	PID (ppm)	Sheen	Sample
0.0 to 0.25 ft: Asphalt				
0.25 to 1.25 ft: Sandy gravel fill material, brown, loose, moist	Cleared to 5' bgs with hand auger for utilities before drilling	0.0	NS	
1.25 to 5.0 ft: Medium to coarse sand, minor gravel, brown, loose, moist (wet below 4.0 ft)		6.7	VSS	
5.0 to 6.5 ft: Medium sand, brown, loose, wet		6-12-14	821	MS
7.5 to 9.0 ft: Medium sand, minor gravel, brown, loose, wet	9-14-24	860	SS	9.0'
12.5 to 14.0 ft: Medium sand, brown, loose, wet	14 and 50 for 6 in.	11.5	NS	14.0'

* - A California Split-Spoon sampler was used to collect samples and record Blow Counts (unless otherwise noted)

WHATCOM ENVIRONMENTAL SERVICES INC.
www.whatcomenvironmental.com

Boring Log

Project: Kris' Mini Mart

Sheet: 1 of 1

Client: Narian Naidu

Drilled by: EDI - Tom Adams

Boring Number: B-11

Logged by: Thom Davis

Location: East side; under canopy

First Encountered Water: 4.0 ft

Date Completed: 5/9/2013

Total Depth: 15 feet bgs

Depth/Description	Blow Count*	PID (ppm)	Sheen	Sample
0.0 to 0.67 ft: Concrete slab				
0.67 to 0.8 ft: Asphalt layer				
0.8 to 1.75 ft: Sandy gravel fill material, brown, loose, moist	Cleared to 5' bgs with hand auger for utilities before drilling	50 @ 1 ft	VSS	
		73 @ 1.3 ft	VSS	
1.75 to 2.75 ft: Sandy silt, dark, brown, firm, moist (organic layer)		9 @ 2 ft	VSS	
		2 @ 3.8 ft	VSS	
2.75 to 5.0 ft: Medium sand, brown, loose, moist (wet below 4 ft bgs)		300 @ 4.25 ft	SS	
		2,344 @ 5 ft	HS	
5.0 to 6.5 ft: Limited recovery. Medium sand, brown, loose, wet	5-6-9	2,705 @ 6.5 ft	HS	6.5'
10.0 to 11.5 ft: Limited recovery. Medium sand, brown, loose, wet	10-17-29	564 @ 10 ft	VSS	10'
15.0 to 16.5 ft: Medium sand, minor gravel, brown, loose, wet	9-15-17	2 @ 15 ft	NS	15'
<i>Regular split spoon sampler used to collect sample at this interval</i>				

* - A California Split-Spoon sampler was used to collect samples and record Blow Counts (unless otherwise noted)

WHATCOM ENVIRONMENTAL SERVICES INC.

www.whatcomenvironmental.com

NS = No Sheen; VSS = Very Slight Sheen; SS = Slight Sheen; MS = Moderate Sheen; HS = Heavy Sheen

Boring Log

Project: Kris' Mini Mart
 Client: Narian Naidu
 Boring Number: B-12
 Location: West side; under canopy
 Date Completed: 5/9/2013

Sheet: 1 of 1
 Drilled by: EDI - Tom Adams
 Logged by: Thom Davis
 First Encountered Water: 4 ft
 Total Depth: 15 feet bgs

Depth/Description	Blow Count*	PID (ppm)	Sheen	Sample	
0.0 to 0.67 ft: Concrete slab	Cleared to 5' bgs with hand auger for utilities before drilling				
0.67 to 0.8 ft: Asphalt layer					
0.8 to 2.0 ft: Sandy gravel fill material, brown, loose, moist					
2.0 to 2.6 ft: Sandy silt, dark, brown, firm, moist (organic layer)			1		
2.6 to 5.0 ft: Medium sand, brown, loose, moist (wet below 4 feet bgs)			350 @ 4 ft		
5.0 to 6.5 ft: Medium sand, brown, loose, wet	5-17-22	525 @ 5 ft	MS		
		550 @ 6 ft	MS		
		1,516 @ 6.5 ft	MS	6.5	
10.0 to 11.5 ft: Medium sand, brown, loose, wet	10-22-50 for 6"	250 @ 10 ft			
		165 @ 10.25 ft	SS		
		447 @ 11 ft	MS		
15.0 to 16.5 ft: No recovery. <i>Regular split spoon sampler used to collect sample at this interval</i>	9-11-17	No Recovery			
<i>Driller noted approximately 2.0 feet of heaving sands in boring before installing well.</i>					

* - A California Split-Spoon sampler was used to collect samples and record Blow Counts (unless otherwise noted)

WHATCOM ENVIRONMENTAL SERVICES INC.

www.whatcomenvironmental.com

NS = No Sheen; VSS = Very Slight Sheen; SS = Slight Sheen; MS = Moderate Sheen; HS = Heavy Sheen

Boring Log

Project: Kris' Mini Mart

Client: Narian Naidu

Boring Number: B-14

Location: South center of dispensers, near MW-2

Date Completed: 5/7/2013

Sheet: 1 of 1

Drilled by: EDI - Tom Adams

Logged by: Thom Davis

First Encountered Water: 5 ft

Total Depth: 14 feet bgs

Depth/Description	Blow Count*	PID (ppm)	Sheen	Sample
0.0 to 0.25 ft: Asphalt				
0.25 to 1.25 ft: Sandy gravel fill material, brown, loose, moist	Cleared to 5' bgs with hand auger for utilities before drilling	92		
		@ 1 ft		
		190	SS	2'
1.25 to 5.0 ft: Medium sand, brown, loose, moist		@ 2 ft		
		2		
		@ 4 ft		
5.0 to 6.5 ft: Medium sand, brown, loose, wet	0-0-1	3.8	SS	6'
		@ 6 ft		
7.5 to 9.0 ft: Medium sand, brown, loose, wet	3-3-3	302	MS	9'
12.5 to 14.0 ft: Medium sand, brown, loose, wet	9-36-50 for 4"	5	VSS	

* - A California Split-Spoon sampler was used to collect samples and record Blow Counts (unless otherwise noted)

WHATCOM ENVIRONMENTAL SERVICES INC.

www.whatcomenvironmental.com

NS = No Sheen; VSS = Very Slight Sheen; SS = Slight Sheen; MS = Moderate Sheen; HS = Heavy Sheen

Sym	Samp Loc	PID (ppm)	Depth (Feet)	Geologic Description	Air Sparge Well Piezometer	Design Specifications																																																												
						Elevations: (feet MSL) 1 _____ 2 _____ Coordinates: X _____ Y _____ Type of Casing: <input checked="" type="checkbox"/> PVC Sched. 40 Flush Thread <input type="checkbox"/> Stainless Steel <input type="checkbox"/> _____ Casing Diameter: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 3" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> _____ Screen Slot: <input type="checkbox"/> 0.008 <input checked="" type="checkbox"/> 0.010 <input type="checkbox"/> _____ Screen Style: <input checked="" type="checkbox"/> Machine Slot <input type="checkbox"/> Wire Wrap <input type="checkbox"/> _____ Sand Pack: Norton 10-20 Silica Sand Bentonite Seal: <input type="checkbox"/> 1/2" Pellets <input checked="" type="checkbox"/> Hole Plug <input type="checkbox"/> Slurry <input type="checkbox"/> 1/4" Pellets <input type="checkbox"/> _____ Grout Type: 3/8 Baroid _____ Weight: _____ Bore Hole Diameter: 1 1/2" Drill Rig: <input checked="" type="checkbox"/> Hollow Stem <input type="checkbox"/> Rotary <input type="checkbox"/> _____ Drilled By: Halocene Drilling- Matt Graham Logged By: Harold Cashman Completion Date: 5/29/03																																																												
						<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Date</th> <th>D-T-W</th> <th>MSL</th> <th>Date</th> <th>Field pH</th> <th>Field EC</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date	D-T-W	MSL	Date	Field pH	Field EC																																																						
Date	D-T-W	MSL	Date	Field pH	Field EC																																																													
						Comments: <u>Heavy sheen in cuttings</u> _____ _____ _____																																																												
						Whatcom Environmental Services																																																												
						AS-3																																																												
						Project: Sievers Location: 6000 Portal Way																																																												
				Depths in Feet from Ground Surface (Not to Scale)																																																														
				METHOD SS=Split Spoon C=Cuttings																																																														