



Facility Closure Investigation and Environmental Summary

UPRC 13-06J Wellhead

ECMC Remediation Project #40189

Weld County, Colorado

Attachments:

Figure 1 – General Location Map

Figure 2 – Historic Release Location

Table 1 – Soil Sample and Field Screening Location Information

Table 2 – Soil Analytical Results Summary Table – Volatile Organics

Table 3 – Soil Analytical Results Summary Table – PAHs

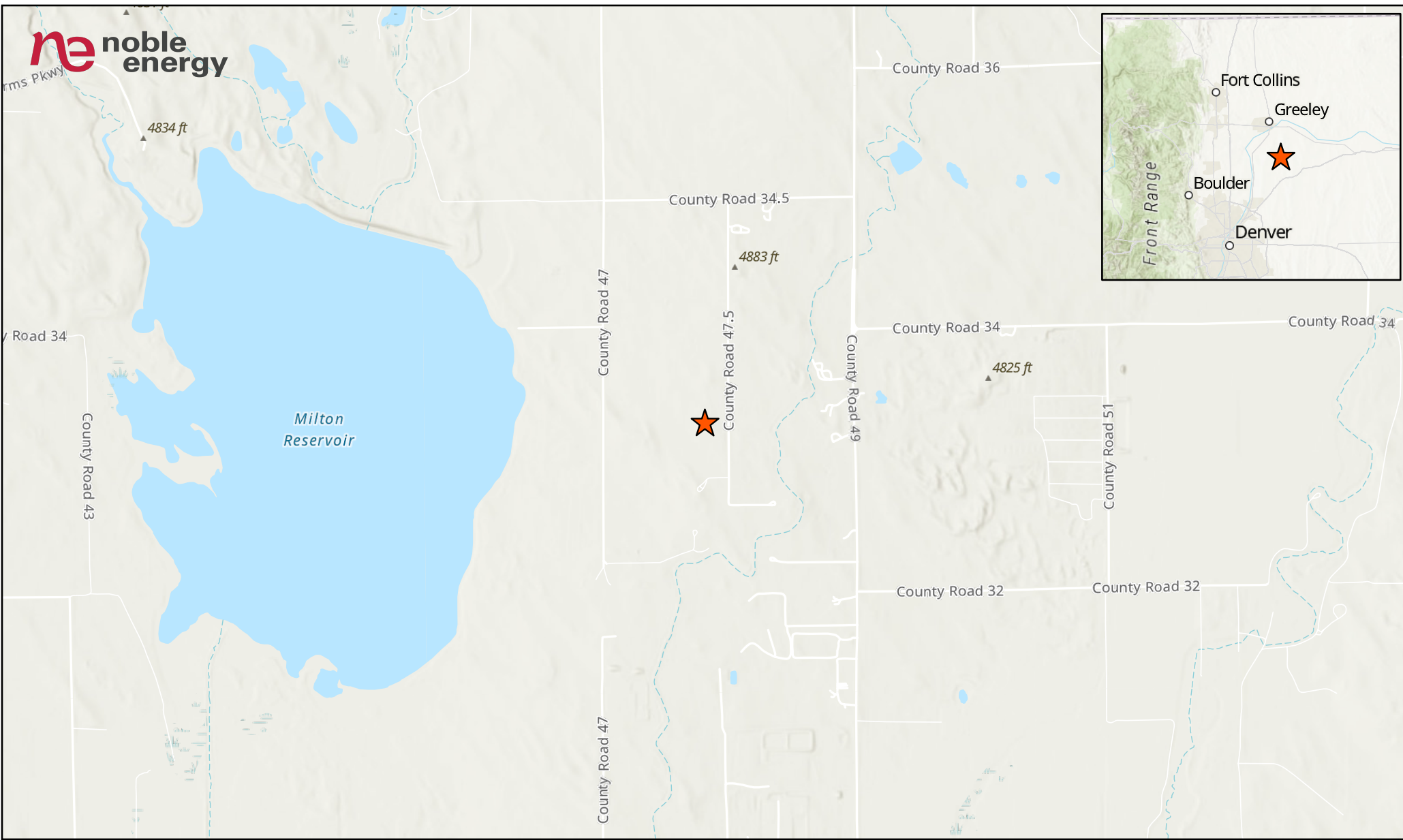
Table 4 – Soil Analytical Results Summary Table – Soil Suitability

Table 5 – Soil Analytical Results Summary Table – Metals

Attachment A: Photographic Log

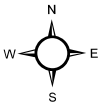
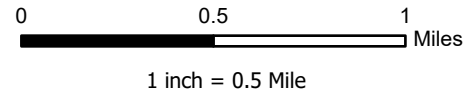
Attachment B: Facility Closure Checklists

FIGURES



LEGEND

 Site Location



Project No: 025-413

Map By: JW

Date: 09/03/2025

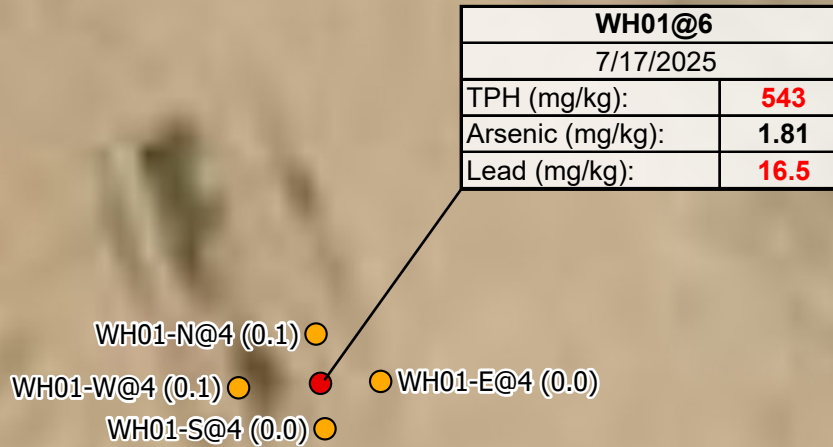
**UPRC 13-06J WELLHEAD
GENERAL LOCATION MAP**
NOBLE ENERGY
SE 1/4 NW 1/4 SECTION 13
T3N R65W, 6TH PM
WELD COUNTY, COLORADO



610 Garrison St., Unit T
Lakewood, CO 80215
303.378.4036

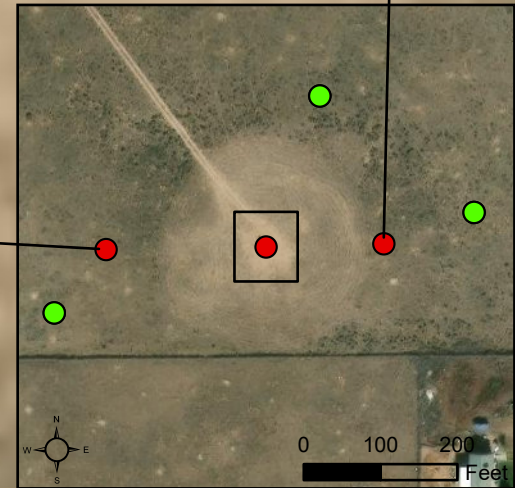
Figure

1



BKG02@4	
7/17/2025	
Arsenic (mg/kg):	1.84
BKG02@6	
7/17/2025	
Arsenic (mg/kg):	1.81

BKG01@4	
7/17/2025	
Arsenic (mg/kg):	1.94
Chromium (VI) (mg/kg):	0.09 J
BKG01@6	
7/17/2025	
Arsenic (mg/kg):	2.00

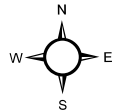
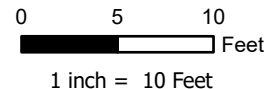


LABEL LEGEND
 XXXX@X: SAMPLE NAME @ DEPTH IN FEET
 WH: WELLHEAD SAMPLE
 BKG: BACKGROUND SAMPLE
 TPH: TOTAL PETROLEUM HYDROCARBONS
BOLD: ABOVE ECMC TABLE 915-1 STANDARDS
BOLD: ABOVE ECMC TABLE 915-1 GWSSL, REPRESENTATIVE OF BACKGROUND LEVELS

Legend

- Soil Sample
- Screening Location
- Proposed Background Sample

NOTES:
 - Sample Label (PID Result in ppm)
 - ppm = parts per million
 - PID = photoionization detector



Project No: 025-413	UPRC 13-06J WELLHEAD SOIL SAMPLE AND FIELD SCREENING LOCATIONS NOBLE ENERGY SE 1/4 NW 1/4 SECTION 13 T3N R65W, 6TH PM WELD COUNTY, COLORADO		610 Garrison St., Unit T Lakewood, CO 80215 303.378.4036	Figure
Map By: JW				2
Date: 09/03/2025				

TABLES

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
UPRC 13-06J WELLHEAD, WELD COUNTY, COLORADO
REM # 40189

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data Latitude/Longitude		VOC Concentration (ppm)
WH01@6	7/17/2025	6	40.227415	-104.613470	0.3
WH01-N@4	7/17/2025	4	40.227422	-104.613471	0.1
WH01-E@4	7/17/2025	4	40.227415	-104.613459	0.0
WH01-W@4	7/17/2025	4	40.227414	-104.613486	0.1
WH01-S@4	7/17/2025	4	40.227408	-104.613470	0.0
BKG01@4	7/17/2025	4	40.227410	-104.614218	0.0
BKG01@6	7/17/2025	6	40.227410	-104.614218	0.0
BKG02@4	7/17/2025	4	40.227420	-104.612921	0.0
BKG02@6	7/17/2025	6	40.227420	-104.612921	0.0

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

ppm - Parts per million

ft-bgs - feet below ground surface

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
UPRC 13-06J WELLHEAD, WELD COUNTY, COLORADO
REM # 40189

Sample ID	Sample Date	Depth (ft-bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
WH01@6	7/17/2025	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	543	<0.200	273	270

1. **Bold** faced values exceed the ECMC Table 915-1 limit(s)
 2. Red highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
 3. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
 4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg
- TPH-GRO = Total petroleum hydrocarbons - gasoline range organics
TPH-DRO = Total petroleum hydrocarbons - diesel range organics
TPH-ORO = Total petroleum hydrocarbons - oil range organics
ft-bgs - feet below ground surface
mg/kg - milligrams per kilogram

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
UPRC 13-06J WELLHEAD, WELD COUNTY, COLORADO
REM # 40189

Sample ID	Sample Date	Depth (ft-bgs)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
WH01@6	7/17/2025	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002

1. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
ft-bgs - feet below ground surface
mg/kg - milligrams per kilogram

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
UPRC 13-06J WELLHEAD, WELD COUNTY, COLORADO
REM # 40189

Sample ID	Sample Date	Depth (ft-bgs)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
WH01@6	7/17/2025	6	7.59	0.677	0.648	<0.100
BKG01@4	7/17/2025	4	7.36	0.0517	0.173	<0.0999
BKG01@6	7/17/2025	6	7.15	0.0617	0.180	<0.100
BKG02@4	7/17/2025	4	7.30	0.0562	0.174	<0.100
BKG02@6	7/17/2025	6	7.49	0.0489	0.221	<0.0997
Maximum Background Concentration			7.49	0.0617	0.221	-

1. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit

ft-bgs - feet below ground surface

EC - Electrical Conductivity

SAR - Sodium adsorption ratio

mmhos/cm - millimhos per centimeter

mg/L - milligrams per liter

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
UPRC 13-06J WELLHEAD, WELD COUNTY, COLORADO
REM # 40189

Sample ID	Sample Date	Depth (ft-bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
WH01@6	7/17/2025	6	1.81	<73.7	<0.341	<0.20*	<41.3	16.5	<23.4	<0.234	<0.719	<332
BKG01@4	7/17/2025	4	1.94	<79.0	<0.366	0.09 J	<44.3	<13.5	<25.1	<0.251	<0.771	<357
BKG01@6	7/17/2025	6	2.00	<78.5	<0.364	<0.20*	<44.1	<13.4	<24.9	<0.249	<0.766	<354
BKG02@4	7/17/2025	4	1.84	<76.1	<0.353	<0.20	<42.7	<13.0	<24.1	<0.241	<0.742	<343
BKG02@6	7/17/2025	6	1.81	<72.2	<0.335	<0.19*	<40.5	<12.3	<22.9	<0.229	<0.705	<326
1.25 X Maximum Background Concentration			2.50	-	-	0.113	-	-	-	-	-	-

1. **Bold** faced values exceed the ECMC Table 915-1 limit(s), but are within 1.25x background concentrations.
 2. **Bold** faced values exceed the ECMC Table 915-1 limit(s)
 3. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
 4. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
- * Indicates laboratory reporting or minimum detection limit in excess of SSL
- ft-bgs - feet below ground surface
mg/kg - milligrams per kilogram
J - The reported result is an estimated value.

**ATTACHMENT A
PHOTOGRAPHIC LOG**

UPRC 13-06J Historical Release Photographic Log



UPRC 13-06J Historical Release Photographic Log



UPRC 13-06J Historical Release Photographic Log



**ATTACHMENT B
FACILITY CLOSURE CHECKLISTS**

Chevron Rockies Business Unit

Field Qualitative Criteria for ECMC Reporting Associated with the Discovery of Potentially Impacted Material

If answered **Yes** to any of the questions listed below, this may suggest the presence of potentially impacted materials as outlined in ECMC Rule 912. Out of an abundance of caution, a "Yes" response will be reported to the ECMC within 24 hours after discovery, regardless of laboratory results. **Immediately notify the RBU Remediation Team.** Include a copy of this Field Qualitative Spill Criteria Checklist in the field Report.

Please answer the following questions when on-site:

1. Is there visible petroleum hydrocarbon staining in the soil?
 (Yes) / (No)
2. Does the soil sample from the stained area have a petroleum odor?
 (Yes) / (No)
3. Is there a petroleum hydrocarbon sheen on the nearby surface water?
 (Yes) / (No)
4. Does there appear to be a sheen of the surface of accumulated groundwater or seeps within the excavation indicative of petroleum?
 (Yes) / (No)
5. Is stained soil in contact with groundwater?
 (Yes) / (No)

Please Include relevant photos of the site conditions for items 1-5.

See attached photolog

UPRC 13-06J

Location name

Please Circle Facility Type: Well / Flowline / Production Facility / Other

Wellhead Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure	
Site Name & COGCC Facility Number: UPRC 13-06J, 249195		Date: 7/17/2025				Remediation Project #: 40189			
Associated Wells: NA		Age of Site: 9/4/1993 - spud date				Number of Photos Attached: 3			
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.227414, -104.613470						Estimated Facility Size (acres): ~0.01			
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Overall good									
USCS Soil Type: SM					Estimated Depth to Groundwater: Unknown as none encountered				
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) Yes, laboratory results confirmed presence of organic exceedances; size and extent unknown, TBD following remedial excavation									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None encountered or observed									
Wellhead(s)									
Well API	05-123-16997								
Age	9/4/1993 - spud date								
Condition of surface around wellhead	Good								
PID Readings	0.0 - 0.3 ppm								
Condition of subsurface (staining present)	Good								
PID Readings	0.0 - 0.3 ppm								
Sample taken? Location/Sample ID#	WH01@6								
Photo Number(s)	1-3								
Other observations regarding wellheads:									
Summary									
Was impacted soil identified? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards									
Total number of samples field screened: 5				Total number of samples collected: 5					
Highest PID Reading: 0.3 ppm				Total number of samples submitted to lab for analysis: 1					
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:				Estimated spill volume:					
Lateral extent:				Volume of soil removed:					
Is additional investigation required?									
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils									
Measured depth to groundwater:				Was remedial groundwater removal conducted? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Date Groundwater was encountered:				Commencement date of removal:					
Sheen on groundwater? <input type="checkbox"/> Yes <input type="checkbox"/> No				Volume of groundwater removed prior to sampling:					
Free product observed? <input type="checkbox"/> Yes <input type="checkbox"/> No				Volume of groundwater removed post sampling:					
Total number of samples collected:				Total Volume of groundwater removed:					
Total number of samples submitted to lab for analysis:									