



TABLE 1

**Soil Sample and Field Screening Information  
Guttersen 42-29 Wellhead. Weld County, CO**

Sample Information				
Sample ID	Depth	Sample Date	Latitude	Longitude
Units -->	ft-bgs	mm/dd/yyyy	Decimal Degree (NAD83)	
WH01@6	6	3/20/2024	40.198596	-104.454384
FLR01@4	4	3/20/2024	40.198605	-104.454384
WH01-S@4	4	3/20/2024	40.198579	-104.454385
WH01-E@4	4	3/20/2024	40.198587	-104.454370
WH01-W@4	4	3/20/2024	40.198592	-104.454404

Notes:

ft-bgs - feet below ground surface

WH - Wellhead

FLR - Flowline Riser



**TABLE 2**  
**Soil Analytical Results Summary Table - Organics**  
**Guttersen 42-29 Wellhead. Weld County, CO**

Sample Information				BTEXN + TMBs							TPH			
Sample ID	Depth	Sample Date	PID Field Screening	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphthalene	1,2,4-TMB	1,3,5-TMB	GRO	DRO	ORO	TPH
Units -->	ft-bgs	mm/dd/yyyy	ppm	mg/kg							mg/kg			
ECMC RSSL -->				1.2	490	5.8	58	2	30	27	500	500	500	500
ECMC GWSSL -->				0.0026	0.69	0.78	9.9	0.0038	0.0081	0.0087	500	500	500	500
WH01@6	6	3/20/2024	27.7	<0.00200	<0.00200	<0.00200	0.00698	<0.002	<0.00200	0.0148	1.18	292	492	785.18
FLR01@4	4	3/20/2024	24.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<0.00200	<0.00200	<0.200	70.1	225	295

Notes:

GRO - Gasoline Range Organics  
DRO - Diesel Range Organics  
ORO - Oil Range Organics  
TPH - Total Petroleum Hydrocarbons  
PID - Photo Ionization Detector  
TMB - Trimethylbenzene  
ft-bgs - feet below ground surface  
WH - Wellhead

ppm - parts per million  
ECMC - Energy and Carbon Management Commission  
BTEXN - Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene  
RSSL - Residential Soil Screening Level  
GWSSL - Groundwater Soil Screening Level  
< - indicates result is below the laboratory reporting limit  
mg/kg - milligrams per kilogram  
FLR - Flowline Riser  
Red- Above ECMC Table 915-1 Standards

**TABLE 3**  
**Soil Analytical Results Summary Table - PAHs**  
**Guttersen 42-29 Wellhead, Weld County, CO.**

Sample Information				PAHs													
Sample ID	Depth	Sample Date	PID Field Screening	Acenaphthene	Anthracene	Benz(a)-anthracene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-methylnaphthalene	2-methylnaphthalene	Pyrene
Units -->	ft-bgs	mm/dd/yyyy	ppm	mg/kg													
ECMC RSSL -->				360	1800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
ECMC GWSSL -->				0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
WH01@6	6	3/20/2024	27.7	<0.020	<0.020	0.032	<0.020	<0.020	0.036	<0.020	<0.020	<0.020	0.020	<0.020	0.003	0.006	<0.020
FLR01@4	4	3/20/2024	24.2	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	0.002	<0.020

Notes:

ft-bgs - feet below ground surface  
 PID - Photo Ionization Detector  
 ppm - parts per million  
 mg/kg - milligrams per kilogram  
 WH - Wellhead

ECMC - Energy and Carbon Management Commission  
 RSSL - Residential Soil Screening Level  
 GWSSL - Groundwater Soil Screening Level  
 < - indicates result is below the laboratory reporting limit  
 FLR - Flowline Riser  
 Red- Above ECMC Table 915-1 Standards

**TABLE 4**  
**Soil Analytical Results Summary Table - Inorganics**  
**Guttersen 42-29 Wellhead. Weld County, CO**

Sample Information				Soil Suitability for Reclamation				Metals in Soils									
Sample ID	Depth	Sample Date	PID Field Screening	EC	SAR	pH	Boron	Arsenic	Barium	Cadmium	Chromium (VI)	Copper	Lead	Nickel	Selenium	Silver	Zinc
Units -->	ft-bgs	mm/dd/yyyy	ppm	mmhos/cm	Unitless	Unitless	mg/l	mg/kg									
ECMC RSSL -->				<4	<6	6.0 - 8.3	2	0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC GWSSL -->				<4	<6	6.0 - 8.3	2	0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Highest Background/1.25x Highest Background				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH01@6	6	3/20/2024	27.7	0.438	1.37	8.40	<0.0990	0.857	22.7	<0.0875	<0.244	<8.75	5.14	2.27	<0.227	<0.0875	<32.4
FLR01@4	4	3/20/2024	24.2	0.517	3.00	8.44	<0.0991	0.856	21.1	<0.0939	<0.244	<9.39	7.34	1.77	<0.244	<0.0939	<34.7

Notes:

PID - Photo Ionization Detector  
 EC - Electrical Conductivity  
 SAR - Sodium adsorption ratio  
 ft-bgs - feet below ground surface  
 ppm - parts per million  
 mg/kg - milligrams per kilogram  
 NA - not applicable  
 WH - Wellhead

ECMC - Energy and Carbon Management Commission  
 RSSL - Residential Soil Screening Level  
 GWSSL - Groundwater Soil Screening Level  
 mmhos/cm - millimhos per centimeter  
 mg/l - milligrams per liter  
 < - indicates result is below the laboratory reporting limit  
 Red - Above ECMC Table 915-1 Standards  
 FLR - Flowline Riser