6720 South Macadam Avenue, Suite 300 Portland, Oregon 97219 503.670.1108



August 22, 2023

Mr. Kyle Satterthwaite ACTenviro, Inc. 13600 SE Ambler Road Clackamas, Oregon 97015

Re: Service Request—Transport and Recovery of Oil-Water Mixture Collected from the T-50 Trench System, NW Natural Gasco Site, 7900 NW St. Helens Road, Portland, Oregon 97210 (Gasco Site)

Dear Mr. Satterthwaite,

On behalf of NW Natural, Anchor QEA, LLC, is coordinating the disposal of an oil-water mixture generated by NW Natural at the above-referenced Gasco property. The oil-water mixture was generated during pumping of the T-50 trench system and is stored in 55-gallon steel drums staged on the Gasco property.

On January 20, 2023, Anchor QEA collected a representative sample of the oil-water mixture for laboratory testing. The sample was tested by Apex Laboratories, LLC, for analysis of the following:

- Corrosivity as pH (U.S. Environmental Protection Agency [EPA] 9045D)
- Resource Conservation and Recovery Act (RCRA) eight total metals (EPA 6020B)
- Volatile organic compounds (EPA 8260D)
- Polychlorinated biphenyls (EPA 8082A)
- Semivolatile organic compounds (EPA 8270E)
- Flashpoint (EPA 1010M)
- Heat of combustion (D-240)

Tabulated analytical results are included in the attached Table 1. A completed Waste Material Profile Sheet is included as Attachment A. The laboratory analytical report is included as Attachment B.

The oil-water mixture is related to the remediation of legacy contamination resulting from manufactured gas plant activities that historically occurred on the subject property, and therefore, the recovered materials are exempt from toxicity characteristic criteria as specified under 40 *Code of Federal Regulations* (CFR) 261.24. As indicated in Attachment A, the recovered liquid does not exhibit ignitable, corrosive, or reactive hazardous characteristics (40 CFR 261.21, 22, or 23), nor is it mixed with a listed hazardous waste. Based on the preceding information, the recovered oil-water mixture is not a RCRA hazardous waste. Although it is not a hazardous waste, and with the exception of manifesting and associated paperwork, NW Natural requires that the recovered liquid be managed

as if it were a hazardous waste, with fuel blending and energy recovery to occur only at a RCRA hazardous waste-permitted facility.

The accumulation of the oil-water mixture product is ongoing, and NW Natural intends to schedule periodic pickups under the attached waste profile to limit quantities stored on site. NW Natural will update the attached waste profile and analytical testing results when required by the receiving facility.

Please contact me if you have any questions.

Thank you,

Benjamin a. une

Ben Uhl, RG Senior Geologist

cc: Robert Wyatt (NW Natural); Patty Dost (Pearl Legal Group); Jen Mott and Tim Stone (Anchor QEA, LLC); Rob Ede (Hahn and Associates, Inc.); and Wesley Thomas (Oregon Department of Environmental Quality)

Attachments

Table 1Analytical Testing ResultsAttachment AWaste Material Profile SheetAttachment BLaboratory Reports and Chain-of-Custody Documentation

Table

Table 1 Analytical Testing Results

	Sample Number: T-50-DNAPL-01202023			
Analyte	Re	sult		
Conventionals				
Soil pH	7.3	pH_S		
pH Temperature (°C)	24.3	pH_S		
Flash Point (°F)	> 150			
	15,256			
	6.97			
Barium	0.522	U		
Cadmium	0.104	U		
Chromium	0.522	U		
Lead	0.104	U		
Mercury	0.0418	U		
Selenium	0.522	U		
Silver	0.104	U		
Polychlorinated Biphenyls (mg/kg)				
Aroclor 1016	0.385	U		
Aroclor 1221	0.385	U		
Aroclor 1232	0.385	U		
Aroclor 1242	0.385	U		
Aroclor 1248	0.385	U		
Aroclor 1254	0.385	U		
Aroclor 1260	0.385	U		
Volatile Organic Compounds (mg/kg)				
Acetone	1,000	0		
Acrylonitrile	100	U		
Benzene	1,060			
Bromobenzene	25	0		
Bromodichloromethano	50	<u>U</u>		
Bromotorm	100	<u>U</u>		
Bromomethane	1,000	<u> </u>		
2-Butanone (MEK)	500	U		
n-Butylbenzene	50	U		
sec-Butylbenzene	56	J		
tert-Butylbenzene	50	U		
Carbon disulfide	500	U		
Carbon tetrachloride	50	U		
Chlorobenzene	25	U		
Chloroethane	500	U		
Chloroform	50	U		
Chloromethane	250	U		
2-Chlorotoluene	50	U		
4-Chlorotoluene	50	U		
Dibromochloromethane	100	U		
1,2-Dibromo-3-chloropropane	250	U		
1,2-Dibromoethane (EDB)	50	U		
Dibromomethane	50	U		
1,2-Dichlorobenzene	25	0		
1,3-Dichlorobenzene	25	0		
1,4-Dichlorobenzene	25	<u> </u>		
	100	<u>U</u>		
1.2-Dichloroethane (EDC)	25	<u>U</u>		
1 1-Dichloroethene	25	<u> </u>		
cis-1.2-Dichloroethene	25	<u> </u>		
trans-1.2-Dichloroethene	25	U		
1,2-Dichloropropane	25	U		
1,3-Dichloropropane	50	 U		
2,2-Dichloropropane	50	U		
1,1-Dichloropropene	50	U		
cis-1,3-Dichloropropene	50	U		
trans-1,3-Dichloropropene	50	U		
Ethylbenzene	1,690			
Hexachlorobutadiene	100	U		
2-Hexanone	1,000	U		
Isopropylbenzene	158			
4-Isopropyltoluene	72	J		
Methylene chloride	500	U		

Transport and Recovery of Oil-Water Mixture Collected from the T-50 Trench System NW Natural Gasco Site

Page 1 of 3 August 2023

Table 1 Analytical Testing Results

	Sample Number: T-50-DNAPL-01202023			
Analyte		Result		
4-Methyl-2-pentanone (MiBK)	500	U		
Methyl tert-butyl ether (MTBE)	50	U		
Naphthalene	26,200			
n-Propylbenzene	66			
Styrene	50	U		
1,1,1,2- letrachloroethane	25	0		
1, 1, 2, 2- I etrachloroethane	50	U		
	25 E0	U		
12.2 Trichlorobonzono	250	0		
1.2.3- Trichlorobenzene	250	<u>_</u>		
1.1.1_Trichloroethane	250	<u>U</u>		
112-Trichloroethane	25	<u>U</u>		
Trichloroethene (TCE)	25	U		
Trichlorofluoromethane	100	U		
1.2.3-Trichloropropane	50	U		
1.2.4-Trimethylbenzene	640			
1,3,5-Trimethylbenzene	214			
Vinyl chloride	25	U		
m,p-Xylene	347			
o-Xylene	387			
Semivolatile Organic Compounds (mg/kg)				
Acenaphthene	17,200			
Acenaphthylene	808	U, R-02		
Anthracene	7,580			
Benz(a)anthracene	3,670			
Benzo(a)pyrene	3,990			
Benzo(b)fluoranthene	3,340			
Benzo(k)fluoranthene	1,210	M-05		
Benzo(g,h,i)perylene	2,570			
Chrysene	4,980			
Dibenz(a,h)anthracene	202			
Fluoranthene	18,300			
Fluorene	9,270			
Indeno(1,2,3-cd)pyrene	2,130			
1-Methylnaphthalene	15,300			
2-Methylnaphthalene	22,800			
Naphthalene	23,500			
Phenanthrene	61,800			
Pyrene	21,600			
Carbazole	2,200			
Dibenzofuran	1,480			
2-Chlorophenol	192	0		
4-Chloro-3-methylphenol	385	<u> </u>		
2,4-Dichlorophenol	192	<u> </u>		
	192	<u> </u>		
2,4-Dinitrophenoi	962	U		
4,6-Dinitro-2-methylphenol	962	0		
2 4 Mothylphonol(s)	90.2	0		
2-Nitronhenol	385	<u> </u>		
4-Nitrophenol	1 730	U R-02		
Pentachlorophenol (PCP)	385			
Phenol	76.9	U		
2.3.4.6-Tetrachlorophenol	192	U		
2.3.5.6-Tetrachlorophenol	192	U		
2,4,5-Trichlorophenol	192	U		
Nitrobenzene	385	U		
2,4,6-Trichlorophenol	192	U		
Bis(2-ethylhexyl) phthalate	577	U		
Butyl benzyl phthalate	385	U		
Diethylphthalate	385	U		
Dimethylphthalate	385	U		
Di-n-butylphthalate	385	U		
Di-n-octyl phthalate	385	U		
N-Nitrosodimethylamine	96.2	U		
N-Nitroso-di-n-propylamine	96.2	U		
N-Nitrosodiphenylamine	769	U, R-02		

Transport and Recovery of Oil-Water Mixture Collected from the T-50 Trench System NW Natural Gasco Site

Page 2 of 3 August 2023

Table 1 Analytical Testing Results

Analyta	Sample T-50-DNAF	Number: PL-01202023
Analyte Bis(2-Chloroethovy) methane	96.2	
Bis(2-Chloroethyl) ether	96.2	<u> </u>
2 2'-Oxybis(1-Chloropropage)	96.2	<u> </u>
	68.5	<u> </u>
Hexachlorobutadiene	96.2	<u> </u>
Hexachlorocyclopentadiene	192	<u> </u>
Hexachloroethane	96.2	<u> </u>
	76.9	<u> </u>
1 2 4-Trichlorobenzene	96.2	<u> </u>
4-Bromonhenyl nhenyl ether	96.2	<u> </u>
4-Chlorophenyl phenyl ether	96.2	<u> </u>
Aniline	192	<u> </u>
4-Chloroaniline	96.2	<u> </u>
2-Nitroaniline	769	<u> </u>
3-Nitroaniline	769	U
4-Nitroaniline	769	U
2.4-Dinitrotoluene	923	U. R-02
2,6-Dinitrotoluene	385	U
Benzoic acid	4,810	U
Benzyl alcohol	192	U
Isophorone	96.2	U
Azobenzene (1,2-DPH)	192	U
Bis(2-Ethylhexyl) adipate	962	U
3,3'-Dichlorobenzidine	769	U, Q-52
1,2-Dinitrobenzene	962	U
1,3-Dinitrobenzene	962	U
1,4-Dinitrobenzene	962	U
Pyridine	192	U
1,2-Dichlorobenzene	96.2	U
1,3-Dichlorobenzene	96.2	U
1,4-Dichlorobenzene	96.2	U

Notes:

Bold: detected analyte

J: Estimated result. Result detected below the lowest point of the calibration curve but above the specified MDL.

M-05: Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.

pH_S: Method recommends preparation as soon as possible. See Sample Preparation Information section of Apex Laboratories report for details.

Q-52: Due to known erratic recoveries, the result and reporting levels for this analyte are reported as estimated values. This analyte may not have passed all QC requirements for this method.

R-02: The reporting limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.

U: Analyte is not detected above the MDL.

--: not applicable

BTU: British Thermal Unit

lb: pound

MDL: method detection limit

mg/kg: milligram per kilogram

QC: quality control

Transport and Recovery of Oil-Water Mixture Collected from the T-50 Trench System NW Natural Gasco Site

Page 3 of 3 August 2023 Attachment A Waste Material Profile Sheet

CloanHa	rhore	WASTE MA	IER	IAL PRO	FILE	SHEE	:			
		Clean Harbors	Prof	ile No. CH2	25696	646				
A. GENERAL INFORMAT GENERATOR EPA ID #/F GENERATOR CODE (Ass ADDRESS 7900 NW S CUSTOMER CODE (Ass ADDRESS 13600 Sc	FION REGISTRATION # signed by Clean Harbor St Helens Rd gned by Clean Harbors outheast Ambler Ro	OR0000204701 (s) NW9414 AD26983 Dad	GENER CITY CUSTO CITY	ATOR NAME: Portland MER NAME: Clackamas	<i>NW Nat</i> STATE/F <i>Advanc</i> STATE/P	ural PROVINCE PHONE: (50 ed Chemical ROVINCE	OR ZIP/POS 3) 286-1785 I Transport OR ZIP/POS	TAL COE	972 [.] 970.	10 15
B. WASTE DESCRIPTION										
PROCESS GENERATING	WASTE: Oil-D	NAPL and water mixture	generat	ed from T-50 durii	ng site re	mediation ef	forts related to	former		
IS THIS WASTE CONTAIN	MGP ED IN SMALL PACKAG	<pre>operations GING CONTAINED WITHIN A L</pre>	ARGER	SHIPPING CONTAINI	ER? No	,				
C. PHYSICAL PROPERT	ES (at 25C or 77F)									
PHYSICAL STATE SOLID WITHOUT FR POWDER MONOLITHIC SOLID LIQUID WITH NO SC LIQUID/SOLID MIXT	EE LIQUID DLIDS JRE	NUMBER OF PHASES/LA	AYERS TOF MID BO ⁻	80.00 DLE 0.00 TTOM 20.00		VISCOSITY (1 - 100 (€ ✓ 101 - 500 501 - 10,1 > 10,000	If liquid present) e.g. Water) 0 (e.g. Motor Oil) 000 (e.g. Molasses))	COLOR <u>Dark/Bla</u> <u>k/Browi</u>	<u>nc</u> n
% FREE LIQUID % SETTLED SOLID % TOTAL SUSPENDE SLUDGE GAS/AEROSOL	D SOLID	ODOR NONE MILD STRONG Describe:		BOILING POINT °F <= 95 (<= 95 - 100 101 - 129 ✓ >= 130 (>	= (°C) =35) (35-38) 9 (38-54) >54)	MELTING PC < 141 140-: > 200	DINT °F (°C) 0 (<60) 200 (60-93) 0 (>93)	TOTAI CARB	- ORGANIC ON <= 1% 1-9% >= 10%	2
FLASH POINT °F (°C) < 73 (<23) 73 - 100 (23-38) 101 -140 (38-60) ✓ 141 -200 (60-93) > 200 (>93)	<pre>pH <= 2 2.1 - 6.9 7 (Neutral) ✓ 7.1 - 12.4 >= 12.5 the complete composition </pre>	SPECIFIC GRAVITY < 0.8 (e.g. Gasoline)) Chloride)	ASH ✓ < 0.1 0.1 - 1.0 1.1 - 5.0 5.1 - 20.0	t l	> 20 Unknown	BTU/LB (MJ/kg) < 2,000 (< 2,000-5,00 ▼ 5,000-10,0 > 10,000 (Actual:	:4.6) 00 (4.6-1 000 (11.6 (>23.2)	1.6) 23.2)	ic used
D. COMPOSITION (LIST)	the complete composition the supply an MSDS_Ple	on of the waste, include any ine ase do not use abbreviations)	ert compo	nents and/or debris. R	anges for in	ndividual comp	onents are accepta	ble. If a t	rade name	is used,
CHEMICAL 1,2,4-TRIMETHYLBE 1,3,5-TRIMETHYLBE 1-METHYLNAPHTH	ENZENE ENZENE ALENE						MIN 0.0000000 0.0000000 0.0000000	640.0 214.0 153	MAX 0000000 0000000 00.0000	UOM PPM PPM PPM
2-METHYLNAPHTH	ALENE						0.0000000	228	000.000	PPM
4-ISOPROPYLTOLU ACENAPHTHENE	ENE						0.0000000	72. 172	000000000000000000000000000000000000000	PPM PPM
ANTHRACENE							0.0000000	758	0.00000	РРМ
ARSENIC BENZ(A)ANTHRACI	ENE						0.0000000	6.9 367	9700000 0.00000	PPM PPM
BENZENE							10.0000000	106	00	РРМ
DOES THIS WASTE CON >12" LONG, METAL REIN PIECES OF CONCRETE 3 If yes, describe, inclu	TAIN ANY HEAVY GAU FORCED HOSE >12" L >3")? uding dimensions:	JGE METAL DEBRIS OR OTH ONG, METAL WIRE >12" LON	ER LARG IG, META	E OBJECTS (EX., ME L VALVES, PIPE FIT	ETAL PLAT TINGS, CO	E OR PIPING	>1/4" THICK OR IFORCING BAR OI	۲۲ ۲	ES 🔽	NO
DOES THIS WASTE CO	NTAIN ANY METALS IN	N POWDERED OR OTHER FIN	NELY DIV	IDED FORM?				YI	es 🗸	NO
DOES THIS WASTE CO FLUIDS, MICROBIOLOG POTENTIALLY INFECTI	NTAIN OR HAS IT COI GICAL WASTE, PATHO OUS MATERIAL?	NTACTED ANY OF THE FOLL LOGICAL WASTE, HUMAN OF	owing; / R animai	ANIMAL WASTES, HU _ DERIVED SERUMS	JMAN BLO OR PROT	OD, BLOOD P EINS OR ANY	RODUCTS, BODY OTHER	YI	ES 🔽	NO
l acknowledge th based on my kno	at this waste material is wledge of the material.	neither infectious nor does it constructions select the answer below that a	ontain an applies:	y organism known to b	be a threat t	to human healt	h. This certification	is		
The waste was n Chemical disinfe	ever exposed to potenti ction or some other forn	ally infectious material. n of sterilization has been applie	ed to the	waste.			>	NA NA	YES	NO NO

CleanHarborc Clea	n Harbors I	Profile No. CH2569646			
I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLE	AN HARBORS BATTE	ERY PACKAGING REQUIREMENTS.	▼ NA	YES	NO
I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WAST	E IS DOUBLE BAGGE	D AND WETTED.	V NA	YES	NO
SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE.	G13	SPECIFY THE FORM CODE ASSOCIATE	ED WITH THE WAS	STE. W205	



Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited

E. CONSTITUENTS

Are these values based on testing or knowledge? Knowledge 🗹 Testing

If constituent concentrations are based on analytical testing, analysis must be provided. Please attach document(s) using the link on the Submit tab.

approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers. **REGULATED METALS** RCRA REGULATORY TCLF TOTAL UOM NOT APPLICABLE LEVEL (mg/l) mg/ PPM D004 ARSENIC 5.0 6.9700000 D005 BARIUM 100.0 ~ D006 CADMIUM 1.0 ~ D007 CHROMIUM 5.0 ~ D008 LEAD 5.0 V 0.2 D009 MERCURY D010 SELENIUM 1.0 Ý ~ D011 SILVER 5.0 **VOLATILE COMPOUNDS** OTHER CONSTITUENTS MAX UOM NOT APPLICABLE D018 **BENZENE** 0.5 1060.0000 0.5 BROMINE ~ D019 CARBON TETRACHLORIDE Ŷ CHLORINE D021 CHLOROBENZENE 100.0 6.0 Ý FLUORINE CHLOROFORM D022 IODINE Ý 0.5 D028 1,2-DICHLOROETHANE Ŷ SULFUR D029 1,1-DICHLOROETHYLENE 0.7 v POTASSIUM METHYL ETHYL KETONE D035 200.0 Ŷ 0.7 SODIUM D039 TETRACHLOROETHYLENE V AMMONIA D040 TRICHLOROETHYLENE 0.5 Ŷ CYANIDE AMENABLE D043 VINYL CHLORIDE 0.2 Ŷ CYANIDE REACTIVE SEMI-VOLATILE COMPOUNDS Ŷ CYANIDE TOTAL o-CRESOL D023 200.0 SULFIDE REACTIVE Ý D024 200.0 m-CRESOL D025 p-CRESOL 200.0 HOCs PCBs 200.0 CRESOL (TOTAL) D026 ~ NONE ~ NONE 7.5 1,4-DICHLOROBENZENE D027 < 1000 PPM < 50 PPM 0.13 D030 2,4-DINITROTOLUENE >= 1000 PPM >=50 PPM HEXACHLOROBENZENE D032 0.13 IF PCBS ARE PRESENT, IS THE 0.5 **HEXACHLOROBUTADIENE** D033 WASTE REGULATED BY TSCA 40 CFR 761? 3.0 D034 HEXACHLOROETHANE NITROBENZENE D036 2.0 YES NO ~ PENTACHLOROPHENOL 100.0 D037 PYRIDINE 5.0 D038 D041 2,4,5-TRICHLOROPHENOL 400.0 D042 2,4,6-TRICHLOROPHENOL 2.0 PESTICIDES AND HERBICIDES ENDRIN D012 0.02 LINDANE 0.4 D013 METHOXYCHLOR D014 10.0 D015 TOXAPHENE 0.5 D016 2,4-D 10.0 D017 2,4,5-TP (SILVEX) 1.0 0.03 D020 CHLORDANE HEPTACHLOR (AND ITS EPOXIDE) D031 0.008 ADDITIONAL HAZARDS DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED? 🖌 NO YES (If yes, explain) CHOOSE ALL THAT APPLY DEA REGULATED SUBSTANCES **EXPLOSIVE** FUMING Image: A second s OSHA REGULATED CARCINOGENS POLYMERIZABLE RADIOACTIVE NONE OF THE ABOVE REACTIVE MATERIAL



F. REGULATORY STAT	US
YES 🖌 NO	USEPA HAZARDOUS WASTE?
YES NO	DO ANY STATE WASTE CODES APPLY?
	X004
	Texas Waste Code
YES 🗸 NO	DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?

YE	S	V NO	IS THIS WASTE PROHIE	3ITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?
			LDR CATEGORY:	Subject to a variance or exemption
			VARIANCE IN 0.	40 CFR 261.24 excludes MGP waste from RCRA regs, however, the Generator requires this waste stream to be managed at a RCRA Permitted Subtitle C Facility.
YE	S	✓ NO	IS THIS A UNIVERSAL V	VASTE?
YE	S	✓ NO	IS THE GENERATOR OI DESIGNATION?	THE WASTE CLASSIFIED AS A VERY SMALL QUANTITY GENERATOR (VSQG) OR A STATE EQUIVALENT
YE	S	V NO	IS THIS MATERIAL GOI	NG TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II))?
YE	S	✓ NO	DOES TREATMENT OF	THIS WASTE GENERATE A F006 OR F019 SLUDGE?
YE	S	V NO	IS THIS WASTE STREA 268.3(C)?	IN PROHIBITED FROM INCINERATION BASED ON THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR
YE	S	V NO	IS THIS WASTE STREA	M "USED OIL" WHICH IS TO BE MANAGED UNDER 40 CFR PART 279 - STANDARDS FOR THE MANAGEMENT OF USED OIL?
YE	S	NO	DOES THIS WASTE CO	NTAIN VOC'S IN CONCENTRATIONS >=500 PPM?
YE	S	V NO	DOES THE WASTE COM	ITAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?
YE	S	✔ NO	DOES THIS WASTE CO	NTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 76.6 KPA (11.1 PSIA)?
✔ YE	S	NO	IS THIS CERCLA REGU	LATED (SUPERFUND) WASTE ?
YE	S	V NO	IS THE WASTE SUBJEC	T TO ONE OF THE FOLLOWING NESHAP RULES?
			Hazardous Organic	NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)
VA NA		YES	NO IF THIS IS A US	EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?
		YES	NO Does the waste NESHAP rules	stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?

YES NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?

 What is the TAB quantity for your facility?
 Megagram/year (1 Mg = 2,200 lbs)

 The basis for this determination is: Knowledge of the Waste Or Test Data

✔ Testing

Knowledge

G. DOT/TDG INFORMATION

DOT/TDG PROPER SHIPPING NAME:

Describe the knowledge :

H. TRANSPORTATION REC ESTIMATED SHIPMENT FR	QUIREMENTS EQUENCY ONE TIME W	EKLY MONTHLY ✔ QUARTERLY YEARLY	OTH	ER		
CONT.	AINERIZED	BULK LIQUID		BULK SOLIE)	
<u>1-1</u> CONTAINERS/S	SHIPMENT	GALLONS/SHIPMENT: 0 Min -0 Max	GAL.	SHIPMENT UOM:	TON	YARD
STORAGE CAPACITY: CONTAINER TYPE:	5			TONS/YARDS/SHIPMENT:	<u>0 Min - 0 Max</u>	
PORTABLE TOTE TANK	BOX CARTON CASE					
CUBIC YARD BOX	✓ DRUM					
OTHER: I. SPECIAL REQUEST	DRUM SIZE: 55					

COMMENTS OR REQUESTS: FB1 or FB2, Approve into ETW and Kimball

GENERATOR'S CERTIFICATION

I certify that I am authors amples submitted are deems necessary, to r

ment as an authorized agent. I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge. I also certify that any all waste. If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors

 NAME (PRINT)
 TITLE
 DATE

 Robert J. Wyatt
 Director, Legacy Environmental Program
 August 14, 2023



Addendum

D. COMPOSITION			
CHEMICAL	MIN	 MAX	UOM
BENZO(A)PYRENE	0.00000 00	 3990.0 000000	РРМ
BENZO(B)FLUORANTHENE	0.00000 00	 3340.0 000000	PPM
BENZO(G,H,I)PERYLENE	0.00000 00	 2570.0 000000	PPM
BENZO(K)FLUORANTHENE	0.00000 00	 1210.0 000000	РРМ
CARBAZOLE	0.00000 00	 2200.0 000000	РРМ
CHRYSENE	0.00000 00	 4680.0 000000	РРМ
DIBENZ(A,H)ANTHRACENE	0.00000 00	 202.00 00000	РРМ
DIBENZOFURAN	0.00000 00	 1480.0 000000	PPM
ETHYLBENZENE	0.00000 00	 1690.0 000000	РРМ
FLUORANTHENE	0.00000 00	 18300. 000000 0	РРМ
FLUORENE	0.00000 00	 9270.0 000000	РРМ
INDENO (1,2,3-CD)PYRENE	0.00000 00	 2130.0 000000	РРМ
ISOPROPYLBENZENE	0.00000 00	 158.00 00000	РРМ
N-PROPYLBENZENE	0.00000 00	 66.000 0000	РРМ
NAPHTHALENE	2.00000 00	 26200. 000000 0	РРМ
PETROLEUM HYDROCARBONS	85.0000 000	 95.000 0000	%
PYRENE	0.00000 00	 21600. 000000 0	РРМ
SEC-BUTYLBENZENE	0.00000 00	 56.000 0000	РРМ
WATER	5.00000 00	 15.000 0000	%
XYLENE	0.00000 00	 734.00 00000	PPM

F. REGULATORY STATUS

Attachment B Laboratory Reports and Chain-of-Custody Documentation



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Wednesday, February 8, 2023

Ben Uhl Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219

RE: A3A0810 - Gasco-T-50 DNAPL - 000029-02.84 T-(01.001K)

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3A0810, which was received by the laboratory on 1/20/2023 at 11:40:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <u>dthomas@apex-labs.com</u>, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

	Cooler Rec	eipt Information	
	(See Cooler Red	ceipt Form for details)	
Cooler #1	0.8 degC	eceived 2/3/23@1 ⁻	0.5 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

6720 SW Macadam Ave. Suite 125	Project Number: 000029-02.84 T-(01.001K)	<u>Report ID:</u>
Portland, OR 97219	Project Manager: Ben Uhl	A3A0810 - 02 08 23 0645

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION							
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received			
T-50-DNAPL-01202023	A3A0810-01	Liquid	01/20/23 10:15	01/20/23 11:40			

Apex Laboratories



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project:Gasco-T-50 DNAPLProject Number:000029-02.84 T-(01.001K)Project Manager:Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

ANALYTICAL SAMPLE RESULTS

	V	olatile Organ	ic Compoun	ds by EPA 8	260D			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
T-50-DNAPL-01202023 (A3A0810-01)				Matrix: Lic	ļuid	Batch:	23A0903	V-16
Acetone	ND	1000	2000	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Acrylonitrile	ND	100	200	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Benzene	1060	10.0	20.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Bromobenzene	ND	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Bromochloromethane	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Bromodichloromethane	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Bromoform	ND	100	200	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Bromomethane	ND	1000	1000	mg/kg	10000	01/25/23 19:59	5035A/8260D	
2-Butanone (MEK)	ND	500	1000	mg/kg	10000	01/25/23 19:59	5035A/8260D	
n-Butylbenzene	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
sec-Butylbenzene	56.0	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	J
tert-Butylbenzene	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Carbon disulfide	ND	500	1000	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Carbon tetrachloride	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Chlorobenzene	ND	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Chloroethane	ND	500	1000	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Chloroform	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Chloromethane	ND	250	500	mg/kg	10000	01/25/23 19:59	5035A/8260D	
2-Chlorotoluene	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
4-Chlorotoluene	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Dibromochloromethane	ND	100	200	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	250	500	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Dibromomethane	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,2-Dichlorobenzene	ND	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,3-Dichlorobenzene	ND	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,4-Dichlorobenzene	ND	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Dichlorodifluoromethane	ND	100	200	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,1-Dichloroethane	ND	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,1-Dichloroethene	ND	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
cis-1,2-Dichloroethene	ND	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
trans-1,2-Dichloroethene	ND	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	

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<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

Project Manager: Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

ANALYTICAL SAMPLE RESULTS

	v	olatile Organ	ic Compou	nds by EPA 826	0D			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
T-50-DNAPL-01202023 (A3A0810-01)				Matrix: Liqui	id	Batch:	23A0903	V-16
1,2-Dichloropropane	ND	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,3-Dichloropropane	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
2,2-Dichloropropane	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,1-Dichloropropene	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
cis-1,3-Dichloropropene	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
trans-1,3-Dichloropropene	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Ethylbenzene	1690	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Hexachlorobutadiene	ND	100	200	mg/kg	10000	01/25/23 19:59	5035A/8260D	
2-Hexanone	ND	1000	1000	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Isopropylbenzene	158	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
4-Isopropyltoluene	72.0	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	J
Methylene chloride	ND	500	1000	mg/kg	10000	01/25/23 19:59	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	500	1000	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
n-Propylbenzene	66.0	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Styrene	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Tetrachloroethene (PCE)	ND	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Toluene	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,2,3-Trichlorobenzene	ND	250	500	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,2,4-Trichlorobenzene	ND	250	500	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,1,1-Trichloroethane	ND	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,1,2-Trichloroethane	ND	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Trichloroethene (TCE)	ND	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Trichlorofluoromethane	ND	100	200	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,2,3-Trichloropropane	ND	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,2,4-Trimethylbenzene	640	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
1,3,5-Trimethylbenzene	214	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Vinyl chloride	ND	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
m,p-Xylene	347	50.0	100	mg/kg	10000	01/25/23 19:59	5035A/8260D	
o-Xylene	387	25.0	50.0	mg/kg	10000	01/25/23 19:59	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 102 %	Limits: 80-120 %	1	01/25/23 19:59	5035A/8260D	

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Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125 Portland, OR 97219 Project:Gasco-T-50 DNAPLProject Number:000029-02.84 T-(01.001K)Project Manager:Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

ANALYTICAL SAMPLE RESULTS

	v	olatile Organic	Compou	nds by EPA 826	0D			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
T-50-DNAPL-01202023 (A3A0810-01)				Matrix: Liqu	id	Batch:	23A0903	V-16
Surrogate: Toluene-d8 (Surr)		Recovery	v: 97 %	Limits: 80-120 %	1	01/25/23 19:59	5035A/8260D	
4-Bromofluorobenzene (Surr)			97 %	79-120 %	1	01/25/23 19:59	5035A/8260D	
T-50-DNAPL-01202023 (A3A0810-01RE1)				Matrix: Liqu	id	Batch:	23A1004	V-16
Naphthalene	26200	500	1000	mg/kg	50000	01/27/23 21:32	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	103 %	Limits: 80-120 %	1	01/27/23 21:32	5035A/8260D	
Toluene-d8 (Surr)			98 %	80-120 %	1	01/27/23 21:32	5035A/8260D	
4-Bromofluorobenzene (Surr)			101 %	79-120 %	1	01/27/23 21:32	5035A/8260D	

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Portland, OR 97219

 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

<u>Report ID:</u> A3A0810 - 02 08 23 0645

ANALYTICAL SAMPLE RESULTS

Project Manager: Ben Uhl

		Polychlorinat	ed Bipheny	ls by EPA 8082	2A			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
T-50-DNAPL-01202023 (A3A0810-01)				Matrix: Liqu	id	Batch:	23A1115	C-07
Aroclor 1016	ND	0.385	0.769	mg/kg	1	02/01/23 15:28	EPA 8082A	
Aroclor 1221	ND	0.385	0.769	mg/kg	1	02/01/23 15:28	EPA 8082A	
Aroclor 1232	ND	0.385	0.769	mg/kg	1	02/01/23 15:28	EPA 8082A	
Aroclor 1242	ND	0.385	0.769	mg/kg	1	02/01/23 15:28	EPA 8082A	
Aroclor 1248	ND	0.385	0.769	mg/kg	1	02/01/23 15:28	EPA 8082A	
Aroclor 1254	ND	0.385	0.769	mg/kg	1	02/01/23 15:28	EPA 8082A	
Aroclor 1260	ND	0.385	0.769	mg/kg	1	02/01/23 15:28	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recov	ery: 89 %	Limits: 60-125 %	5 1	02/01/23 15:28	EPA 8082A	

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Portland, OR 97219

Project:Gasco-T-50 DNAPLProject Number:000029-02.84 T-(01.001K)Project Manager:Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

ANALYTICAL SAMPLE RESULTS

	Sem	nivolatile Org	anic Compou	unds by EPA	8270E			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
T-50-DNAPL-01202023 (A3A0810-01)				Matrix: Lic	quid	Batch:	23A1083	
Acenaphthene	17200	38.5	76.9	mg/kg	100	01/30/23 16:46	EPA 8270E	
Acenaphthylene	ND	808	808	mg/kg	100	01/30/23 16:46	EPA 8270E	R-02
Anthracene	7580	38.5	76.9	mg/kg	100	01/30/23 16:46	EPA 8270E	
Benz(a)anthracene	3670	38.5	76.9	mg/kg	100	01/30/23 16:46	EPA 8270E	
Benzo(a)pyrene	3990	57.7	115	mg/kg	100	01/30/23 16:46	EPA 8270E	
Benzo(b)fluoranthene	3340	57.7	115	mg/kg	100	01/30/23 16:46	EPA 8270E	
Benzo(k)fluoranthene	1210	57.7	115	mg/kg	100	01/30/23 16:46	EPA 8270E	M-05
Benzo(g,h,i)perylene	2570	38.5	76.9	mg/kg	100	01/30/23 16:46	EPA 8270E	
Chrysene	4680	38.5	76.9	mg/kg	100	01/30/23 16:46	EPA 8270E	
Dibenz(a,h)anthracene	202	38.5	76.9	mg/kg	100	01/30/23 16:46	EPA 8270E	
Fluoranthene	18300	38.5	76.9	mg/kg	100	01/30/23 16:46	EPA 8270E	
Fluorene	9270	38.5	76.9	mg/kg	100	01/30/23 16:46	EPA 8270E	
Indeno(1,2,3-cd)pyrene	2130	38.5	76.9	mg/kg	100	01/30/23 16:46	EPA 8270E	
1-Methylnaphthalene	15300	76.9	154	mg/kg	100	01/30/23 16:46	EPA 8270E	
2-Methylnaphthalene	22800	76.9	154	mg/kg	100	01/30/23 16:46	EPA 8270E	
Naphthalene	23500	76.9	154	mg/kg	100	01/30/23 16:46	EPA 8270E	
Pyrene	21600	38.5	76.9	mg/kg	100	01/30/23 16:46	EPA 8270E	
Carbazole	2200	57.7	115	mg/kg	100	01/30/23 16:46	EPA 8270E	
Dibenzofuran	1480	38.5	76.9	mg/kg	100	01/30/23 16:46	EPA 8270E	
2-Chlorophenol	ND	192	385	mg/kg	100	01/30/23 16:46	EPA 8270E	
4-Chloro-3-methylphenol	ND	385	769	mg/kg	100	01/30/23 16:46	EPA 8270E	
2,4-Dichlorophenol	ND	192	385	mg/kg	100	01/30/23 16:46	EPA 8270E	
2,4-Dimethylphenol	ND	192	385	mg/kg	100	01/30/23 16:46	EPA 8270E	
2,4-Dinitrophenol	ND	962	1920	mg/kg	100	01/30/23 16:46	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	962	1920	mg/kg	100	01/30/23 16:46	EPA 8270E	
2-Methylphenol	ND	96.2	192	mg/kg	100	01/30/23 16:46	EPA 8270E	
3+4-Methylphenol(s)	ND	96.2	192	mg/kg	100	01/30/23 16:46	EPA 8270E	
2-Nitrophenol	ND	385	769	mg/kg	100	01/30/23 16:46	EPA 8270E	
4-Nitrophenol	ND	1730	1730	mg/kg	100	01/30/23 16:46	EPA 8270E	R-02
Pentachlorophenol (PCP)	ND	385	769	mg/kg	100	01/30/23 16:46	EPA 8270E	
Phenol	ND	76.9	154	mg/kg	100	01/30/23 16:46	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	192	385	mg/kg	100	01/30/23 16:46	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	192	385	mg/kg	100	01/30/23 16:46	EPA 8270E	

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Project:Gasco-T-50 DNAPLProject Number:000029-02.84 T-(01.001K)Project Manager:Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

ANALYTICAL SAMPLE RESULTS

	Sem	nivolatile Org	anic Compo	unds by EPA	8270E			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
T-50-DNAPL-01202023 (A3A0810-01)				Matrix: Lic	quid	Batch:	23A1083	
2,4,5-Trichlorophenol	ND	192	385	mg/kg	100	01/30/23 16:46	EPA 8270E	
Nitrobenzene	ND	385	769	mg/kg	100	01/30/23 16:46	EPA 8270E	
2,4,6-Trichlorophenol	ND	192	385	mg/kg	100	01/30/23 16:46	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	577	1150	mg/kg	100	01/30/23 16:46	EPA 8270E	
Butyl benzyl phthalate	ND	385	769	mg/kg	100	01/30/23 16:46	EPA 8270E	
Diethylphthalate	ND	385	769	mg/kg	100	01/30/23 16:46	EPA 8270E	
Dimethylphthalate	ND	385	769	mg/kg	100	01/30/23 16:46	EPA 8270E	
Di-n-butylphthalate	ND	385	769	mg/kg	100	01/30/23 16:46	EPA 8270E	
Di-n-octyl phthalate	ND	385	769	mg/kg	100	01/30/23 16:46	EPA 8270E	
N-Nitrosodimethylamine	ND	96.2	192	mg/kg	100	01/30/23 16:46	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	96.2	192	mg/kg	100	01/30/23 16:46	EPA 8270E	
N-Nitrosodiphenylamine	ND	769	769	mg/kg	100	01/30/23 16:46	EPA 8270E	R-02
Bis(2-Chloroethoxy) methane	ND	96.2	192	mg/kg	100	01/30/23 16:46	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	96.2	192	mg/kg	100	01/30/23 16:46	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	96.2	192	mg/kg	100	01/30/23 16:46	EPA 8270E	
Hexachlorobenzene	ND	38.5	76.9	mg/kg	100	01/30/23 16:46	EPA 8270E	
Hexachlorobutadiene	ND	96.2	192	mg/kg	100	01/30/23 16:46	EPA 8270E	
Hexachlorocyclopentadiene	ND	192	385	mg/kg	100	01/30/23 16:46	EPA 8270E	
Hexachloroethane	ND	96.2	192	mg/kg	100	01/30/23 16:46	EPA 8270E	
2-Chloronaphthalene	ND	76.9	76.9	mg/kg	100	01/30/23 16:46	EPA 8270E	
1,2,4-Trichlorobenzene	ND	96.2	192	mg/kg	100	01/30/23 16:46	EPA 8270E	
4-Bromophenyl phenyl ether	ND	96.2	192	mg/kg	100	01/30/23 16:46	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	96.2	192	mg/kg	100	01/30/23 16:46	EPA 8270E	
Aniline	ND	192	385	mg/kg	100	01/30/23 16:46	EPA 8270E	
4-Chloroaniline	ND	96.2	192	mg/kg	100	01/30/23 16:46	EPA 8270E	
2-Nitroaniline	ND	769	1540	mg/kg	100	01/30/23 16:46	EPA 8270E	
3-Nitroaniline	ND	769	1540	mg/kg	100	01/30/23 16:46	EPA 8270E	
4-Nitroaniline	ND	769	1540	mg/kg	100	01/30/23 16:46	EPA 8270E	
2,4-Dinitrotoluene	ND	923	923	mg/kg	100	01/30/23 16:46	EPA 8270E	R-02
2,6-Dinitrotoluene	ND	385	769	mg/kg	100	01/30/23 16:46	EPA 8270E	
Benzoic acid	ND	4810	9620	mg/kg	100	01/30/23 16:46	EPA 8270E	
Benzyl alcohol	ND	192	385	mg/kg	100	01/30/23 16:46	EPA 8270E	
Isophorone	ND	96.2	192	mg/kg	100	01/30/23 16:46	EPA 8270E	

Apex Laboratories



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project:Gasco-T-50 DNAPLProject Number:000029-02.84 T-(01.001K)Project Manager:Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

ANALYTICAL SAMPLE RESULTS

	Sem	nivolatile Organ	ic Comp	ounds by EPA 8	270E			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T-50-DNAPL-01202023 (A3A0810-01)				Matrix: Liqui	d	Batch: 2	23A1083	
Azobenzene (1,2-DPH)	ND	192	192	mg/kg	100	01/30/23 16:46	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	962	1920	mg/kg	100	01/30/23 16:46	EPA 8270E	
3,3'-Dichlorobenzidine	ND	769	1540	mg/kg	100	01/30/23 16:46	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	962	1920	mg/kg	100	01/30/23 16:46	EPA 8270E	
1,3-Dinitrobenzene	ND	962	1920	mg/kg	100	01/30/23 16:46	EPA 8270E	
1,4-Dinitrobenzene	ND	962	1920	mg/kg	100	01/30/23 16:46	EPA 8270E	
Pyridine	ND	192	385	mg/kg	100	01/30/23 16:46	EPA 8270E	
1,2-Dichlorobenzene	ND	96.2	192	mg/kg	100	01/30/23 16:46	EPA 8270E	
1,3-Dichlorobenzene	ND	96.2	192	mg/kg	100	01/30/23 16:46	EPA 8270E	
1,4-Dichlorobenzene	ND	96.2	192	mg/kg	100	01/30/23 16:46	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery:	110 %	Limits: 37-122 %	100	01/30/23 16:46	EPA 8270E	S-05
2-Fluorobiphenyl (Surr)			150 %	44-120 %	100	01/30/23 16:46	EPA 8270E	S-05
Phenol-d6 (Surr)			67 %	33-122 %	100	01/30/23 16:46	EPA 8270E	S-05
p-Terphenyl-d14 (Surr)			116 %	54-127 %	100	01/30/23 16:46	EPA 8270E	S-05
2-Fluorophenol (Surr)			112 %	35-120 %	100	01/30/23 16:46	EPA 8270E	S-05
2,4,6-Tribromophenol (Surr)			327 %	39-132 %	100	01/30/23 16:46	EPA 8270E	S-05
T-50-DNAPL-01202023 (A3A0810-01RE1)				Matrix: Liqui	d	Batch: 2	23A1083	
Phenanthrene	61800	385	769	mg/kg	1000	01/30/23 17:55	EPA 8270E	

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 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

 Project Manager:
 Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

ANALYTICAL SAMPLE RESULTS

		Total Meta	s by EPA 60	20B (ICPMS))			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
T-50-DNAPL-01202023 (A3A0810-01RE1)				Matrix: Liq	luid			
Batch: 23A0958								
Arsenic	6.97	0.522	1.04	mg/kg	10	01/27/23 16:49	EPA 6020B	
Barium	ND	0.522	1.04	mg/kg	10	01/27/23 16:49	EPA 6020B	
Cadmium	ND	0.104	0.209	mg/kg	10	01/27/23 16:49	EPA 6020B	
Chromium	ND	0.522	1.04	mg/kg	10	01/27/23 16:49	EPA 6020B	
Lead	ND	0.104	0.209	mg/kg	10	01/27/23 16:49	EPA 6020B	
Mercury	ND	0.0418	0.0835	mg/kg	10	01/27/23 16:49	EPA 6020B	
Selenium	ND	0.522	1.04	mg/kg	10	01/27/23 16:49	EPA 6020B	
Silver	ND	0.104	0.209	mg/kg	10	01/27/23 16:49	EPA 6020B	

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<u>Report ID:</u> A3A0810 - 02 08 23 0645

ANALYTICAL SAMPLE RESULTS

		Conventio	nal Chemistr	y Parameters	S								
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes					
T-50-DNAPL-01202023 (A3A0810-01)				Matrix: Liquid									
Batch: 23A0930													
Liquid/Oil pH (measured in H2O)	7.3			pH Units	1	01/25/23 16:38	EPA 9045D	pH_S					
pH Temperature (deg C) Batch: 23B0160	24.3			pH Units	1	01/25/23 16:38	EPA 9045D	pH_S					
Flash Point (Ignitability)	>150° F	70	70	degF	1	02/03/23 17:37	EPA 1010M						

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Project: Gasco-T-50 DNAPL Project Number: 000029-02.84 T-(01.001K)

Project Manager: Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

					inpounus		2000					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0903 - EPA 5035A							Soi	I				
Blank (23A0903-BLK1)			Prepared	: 01/25/23 (08:00 Ana	lyzed: 01/25	/23 11:54					
5035A/8260D												
Acetone	ND	0.500	1.00	mg/kg	50							
Acrylonitrile	ND	0.0500	0.100	mg/kg	50							
Benzene	ND	0.00500	0.0100	mg/kg	50							
Bromobenzene	ND	0.0125	0.0250	mg/kg	50							
Bromochloromethane	ND	0.0250	0.0500	mg/kg	50							
Bromodichloromethane	ND	0.0250	0.0500	mg/kg	50							
Bromoform	ND	0.0500	0.100	mg/kg	50							
Bromomethane	ND	0.500	0.500	mg/kg	50							
2-Butanone (MEK)	ND	0.250	0.500	mg/kg	50							
n-Butylbenzene	ND	0.0250	0.0500	mg/kg	50							
sec-Butylbenzene	ND	0.0250	0.0500	mg/kg	50							
tert-Butylbenzene	ND	0.0250	0.0500	mg/kg	50							
Carbon disulfide	ND	0.250	0.500	mg/kg	50							
Carbon tetrachloride	ND	0.0250	0.0500	mg/kg	50							
Chlorobenzene	ND	0.0125	0.0250	mg/kg	50							
Chloroethane	ND	0.250	0.500	mg/kg	50							
Chloroform	ND	0.0250	0.0500	mg/kg	50							
Chloromethane	ND	0.125	0.250	mg/kg	50							
2-Chlorotoluene	ND	0.0250	0.0500	mg/kg	50							
4-Chlorotoluene	ND	0.0250	0.0500	mg/kg	50							
Dibromochloromethane	ND	0.0500	0.100	mg/kg	50							
1,2-Dibromo-3-chloropropane	ND	0.125	0.250	mg/kg	50							
1,2-Dibromoethane (EDB)	ND	0.0250	0.0500	mg/kg	50							
Dibromomethane	ND	0.0250	0.0500	mg/kg	50							
1,2-Dichlorobenzene	ND	0.0125	0.0250	mg/kg	50							
1,3-Dichlorobenzene	ND	0.0125	0.0250	mg/kg	50							
1,4-Dichlorobenzene	ND	0.0125	0.0250	mg/kg	50							
Dichlorodifluoromethane	ND	0.0500	0.100	mg/kg	50							
1,1-Dichloroethane	ND	0.0125	0.0250	mg/kg	50							
1,2-Dichloroethane (EDC)	ND	0.0125	0.0250	mg/kg	50							
1,1-Dichloroethene	ND	0.0125	0.0250	mg/kg	50							
cis-1,2-Dichloroethene	ND	0.0125	0.0250	mg/kg	50							
trans-1,2-Dichloroethene	ND	0.0125	0.0250	mg/kg	50							
				2 0								

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Project: Gasco-T-50 DNAPL

Project Number: 000029-02.84 T-(01.001K) Project Manager: Ben Uhl <u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	Detection	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
		Linit					Soi	1				
Plank (23 & 0003 PI K1)			Duon ouo du	01/25/22 ()8.00 A mal	urad: 01/25	/22 11.54	-				
1 2 D: 11		0.0105	Prepared	01/23/23 (70 Ana	yzed: 01/23/	25 11:54					
1,2-Dichloropropane	ND	0.0125	0.0250	mg/kg	50							
1,3-Dichloropropane	ND	0.0250	0.0500	mg/kg	50							
2,2-Dichloropropane	ND	0.0250	0.0500	mg/kg	50							
1,1-Dichloropropene	ND	0.0250	0.0500	mg/kg	50							
cis-1,3-Dichloropropene	ND	0.0250	0.0500	mg/kg	50							
trans-1,3-Dichloropropene	ND	0.0250	0.0500	mg/kg	50							
Ethylbenzene	ND	0.0125	0.0250	mg/kg	50							
Hexachlorobutadiene	ND	0.0500	0.100	mg/kg	50							
2-Hexanone	ND	0.500	0.500	mg/kg	50							
Isopropylbenzene	ND	0.0250	0.0500	mg/kg	50							
4-Isopropyltoluene	ND	0.0250	0.0500	mg/kg	50							
Methylene chloride	ND	0.250	0.500	mg/kg	50							
4-Methyl-2-pentanone (MiBK)	ND	0.250	0.500	mg/kg	50							
Methyl tert-butyl ether (MTBE)	ND	0.0250	0.0500	mg/kg	50							
Naphthalene	ND	0.0500	0.100	mg/kg	50							
n-Propylbenzene	ND	0.0125	0.0250	mg/kg	50							
Styrene	ND	0.0250	0.0500	mg/kg	50							
1,1,1,2-Tetrachloroethane	ND	0.0125	0.0250	mg/kg	50							
1,1,2,2-Tetrachloroethane	ND	0.0250	0.0500	mg/kg	50							
Tetrachloroethene (PCE)	ND	0.0125	0.0250	mg/kg	50							
Toluene	ND	0.0250	0.0500	mg/kg	50							
1,2,3-Trichlorobenzene	ND	0.125	0.250	mg/kg	50							
1,2,4-Trichlorobenzene	ND	0.125	0.250	mg/kg	50							
1,1,1-Trichloroethane	ND	0.0125	0.0250	mg/kg	50							
1,1,2-Trichloroethane	ND	0.0125	0.0250	mg/kg	50							
Trichloroethene (TCE)	ND	0.0125	0.0250	mg/kg	50							
Trichlorofluoromethane	ND	0.0500	0.100	mg/kg	50							
1.2.3-Trichloropropane	ND	0.0250	0.0500	mg/kg	50							
1.2.4-Trimethylbenzene	ND	0.0250	0.0500	mg/kg	50							
1.3.5-Trimethylbenzene	ND	0.0250	0.0500	mg/kg	50							
Vinyl chloride	ND	0.0125	0.0250	mø/kø	50							
m n-Xylene	ND	0.0250	0.0500	mg/kg	50							
o-Xvlene	ND	0.0125	0.0250	mo/ko	50							
Surr: 1 4-Difluorobenzene (Surr)		Recov	erv: 105 %	Limits: 80	-120 %	Dilu	ution lx					

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 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

 Project Manager:
 Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

			Volatile Org	ganic Cor	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0903 - EPA 5035A							So	il				
Blank (23A0903-BLK1)			Prepared	: 01/25/23 (08:00 Anal	lyzed: 01/25	/23 11:54					
Surr: Toluene-d8 (Surr)		Reco	very: 98 %	Limits: 80	-120 %	Dilt	ution: 1x					
4-Bromofluorobenzene (Surr)			100 %	79-	-120 %		"					
LCS (23A0903-BS1)			Prepared	: 01/25/23 (08:00 Anal	lyzed: 01/25	/23 11:03					
5035A/8260D												
Acetone	1.83	0.500	1.00	mg/kg	50	2.00		91	80-120%			
Acrylonitrile	0.923	0.0500	0.100	mg/kg	50	1.00		92	80-120%			
Benzene	1.03	0.00500	0.0100	mg/kg	50	1.00		103	80-120%			
Bromobenzene	0.956	0.0125	0.0250	mg/kg	50	1.00		96	80-120%			
Bromochloromethane	1.04	0.0250	0.0500	mg/kg	50	1.00		104	80-120%			
Bromodichloromethane	1.05	0.0250	0.0500	mg/kg	50	1.00		105	80-120%			
Bromoform	0.951	0.0500	0.100	mg/kg	50	1.00		95	80-120%			
Bromomethane	1.94	0.500	0.500	mg/kg	50	1.00		194	80-120%			Q-5
2-Butanone (MEK)	1.78	0.250	0.500	mg/kg	50	2.00		89	80-120%			
n-Butylbenzene	0.874	0.0250	0.0500	mg/kg	50	1.00		87	80-120%			
sec-Butylbenzene	0.908	0.0250	0.0500	mg/kg	50	1.00		91	80-120%			
tert-Butylbenzene	0.869	0.0250	0.0500	mg/kg	50	1.00		87	80-120%			
Carbon disulfide	0.932	0.250	0.500	mg/kg	50	1.00		93	80-120%			
Carbon tetrachloride	1.06	0.0250	0.0500	mg/kg	50	1.00		106	80-120%			
Chlorobenzene	1.00	0.0125	0.0250	mg/kg	50	1.00		100	80-120%			
Chloroethane	1.29	0.250	0.500	mg/kg	50	1.00		129	80-120%			Q-5
Chloroform	1.09	0.0250	0.0500	mg/kg	50	1.00		109	80-120%			
Chloromethane	0.844	0.125	0.250	mg/kg	50	1.00		84	80-120%			
2-Chlorotoluene	0.944	0.0250	0.0500	mg/kg	50	1.00		94	80-120%			
4-Chlorotoluene	0.913	0.0250	0.0500	mg/kg	50	1.00		91	80-120%			
Dibromochloromethane	0.946	0.0500	0.100	mg/kg	50	1.00		95	80-120%			
1,2-Dibromo-3-chloropropane	0.854	0.125	0.250	mg/kg	50	1.00		85	80-120%			
1,2-Dibromoethane (EDB)	1.02	0.0250	0.0500	mg/kg	50	1.00		102	80-120%			
Dibromomethane	1.11	0.0250	0.0500	mg/kg	50	1.00		111	80-120%			
1,2-Dichlorobenzene	0.954	0.0125	0.0250	mg/kg	50	1.00		95	80-120%			
1,3-Dichlorobenzene	0.984	0.0125	0.0250	mg/kg	50	1.00		98	80-120%			
1,4-Dichlorobenzene	0.956	0.0125	0.0250	mg/kg	50	1.00		96	80-120%			
Dichlorodifluoromethane	0.860	0.0500	0.100	mg/kg	50	1.00		86	80-120%			
1,1-Dichloroethane	1.09	0.0125	0.0250	mg/kg	50	1.00		109	80-120%			

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Project: Gasco-T-50 DNAPL

Project Number: 000029-02.84 T-(01.001K) Project Manager: Ben Uhl <u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

<u>.</u>												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0903 - EPA 5035A							So	il				
LCS (23A0903-BS1)			Prepared	: 01/25/23 (08:00 Anal	yzed: 01/25	/23 11:03					
1,2-Dichloroethane (EDC)	1.09	0.0125	0.0250	mg/kg	50	1.00		109	80-120%			
1,1-Dichloroethene	1.05	0.0125	0.0250	mg/kg	50	1.00		105	80-120%			
cis-1,2-Dichloroethene	1.05	0.0125	0.0250	mg/kg	50	1.00		105	80-120%			
trans-1,2-Dichloroethene	1.07	0.0125	0.0250	mg/kg	50	1.00		107	80-120%			
1,2-Dichloropropane	1.07	0.0125	0.0250	mg/kg	50	1.00		107	80-120%			
1,3-Dichloropropane	0.964	0.0250	0.0500	mg/kg	50	1.00		96	80-120%			
2,2-Dichloropropane	1.11	0.0250	0.0500	mg/kg	50	1.00		111	80-120%			
1,1-Dichloropropene	0.985	0.0250	0.0500	mg/kg	50	1.00		98	80-120%			
cis-1,3-Dichloropropene	0.940	0.0250	0.0500	mg/kg	50	1.00		94	80-120%			
trans-1,3-Dichloropropene	1.03	0.0250	0.0500	mg/kg	50	1.00		103	80-120%			
Ethylbenzene	0.977	0.0125	0.0250	mg/kg	50	1.00		98	80-120%			
Hexachlorobutadiene	0.870	0.0500	0.100	mg/kg	50	1.00		87	80-120%			
2-Hexanone	1.56	0.500	0.500	mg/kg	50	2.00		78	80-120%			Q-5
Isopropylbenzene	0.903	0.0250	0.0500	mg/kg	50	1.00		90	80-120%			
4-Isopropyltoluene	0.903	0.0250	0.0500	mg/kg	50	1.00		90	80-120%			
Methylene chloride	1.02	0.250	0.500	mg/kg	50	1.00		102	80-120%			
4-Methyl-2-pentanone (MiBK)	1.68	0.250	0.500	mg/kg	50	2.00		84	80-120%			
Methyl tert-butyl ether (MTBE)	0.981	0.0250	0.0500	mg/kg	50	1.00		98	80-120%			
Naphthalene	0.861	0.0500	0.100	mg/kg	50	1.00		86	80-120%			
n-Propylbenzene	0.944	0.0125	0.0250	mg/kg	50	1.00		94	80-120%			
Styrene	0.877	0.0250	0.0500	mg/kg	50	1.00		88	80-120%			
1,1,1,2-Tetrachloroethane	1.04	0.0125	0.0250	mg/kg	50	1.00		104	80-120%			
1,1,2,2-Tetrachloroethane	0.923	0.0250	0.0500	mg/kg	50	1.00		92	80-120%			
Tetrachloroethene (PCE)	1.07	0.0125	0.0250	mg/kg	50	1.00		107	80-120%			
Toluene	0.978	0.0250	0.0500	mg/kg	50	1.00		98	80-120%			
1,2,3-Trichlorobenzene	0.952	0.125	0.250	mg/kg	50	1.00		95	80-120%			
1,2,4-Trichlorobenzene	0.889	0.125	0.250	mg/kg	50	1.00		89	80-120%			
1,1,1-Trichloroethane	1.07	0.0125	0.0250	mg/kg	50	1.00		107	80-120%			
1,1,2-Trichloroethane	0.990	0.0125	0.0250	mg/kg	50	1.00		99	80-120%			
Trichloroethene (TCE)	1.12	0.0125	0.0250	mg/kg	50	1.00		112	80-120%			
Trichlorofluoromethane	1.15	0.0500	0.100	mg/kg	50	1.00		115	80-120%			
1,2,3-Trichloropropane	0.958	0.0250	0.0500	mg/kg	50	1.00		96	80-120%			
1,2,4-Trimethylbenzene	0.960	0.0250	0.0500	mg/kg	50	1.00		96	80-120%			
1,3,5-Trimethylbenzene	0.981	0.0250	0.0500	mg/kg	50	1.00		98	80-120%			

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Anchor QEA, LLC

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Project: Gasco-T-50 DNAPL Project Number: 000029-02.84 T-(01.001K)

Project Manager: Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

	Volatile Organic Compounds by EPA 8260D													
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes		
Batch 23A0903 - EPA 5035A							So	il						
LCS (23A0903-BS1)			Prepared	l: 01/25/23 (08:00 Ana	lyzed: 01/25	/23 11:03							
Vinyl chloride	1.43	0.0125	0.0250	mg/kg	50	1.00		143	80-120%			Q-5		
m,p-Xylene	1.96	0.0250	0.0500	mg/kg	50	2.00		98	80-120%					
o-Xylene	0.900	0.0125	0.0250	mg/kg	50	1.00		90	80-120%					
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 103 %	Limits: 80	-120 %	Dili	ution: 1x							
Toluene-d8 (Surr)			98 %	80	-120 %		"							
4-Bromofluorobenzene (Surr)			96 %	79	-120 %		"							
Duplicate (23A0903-DUP1)			Preparec	1: 01/24/23	14:11 Ana	lyzed: 01/25	/23 12:45					V-15		
OC Source Sample: Non-SDG (A3	A0800-01)													
Acetone	ND	0.488	0.975	mg/kg	50		ND				30%			
Acrylonitrile	ND	0.0488	0.0975	mg/kg	50		ND				30%			
Benzene	ND	0.00488	0.00975	mg/kg	50		ND				30%			
Bromobenzene	ND	0.0122	0.0244	mg/kg	50		ND				30%			
Bromochloromethane	ND	0.0244	0.0488	mg/kg	50		ND				30%			
Bromodichloromethane	ND	0.0244	0.0488	mg/kg	50		ND				30%			
Bromoform	ND	0.0488	0.0975	mg/kg	50		ND				30%			
Bromomethane	ND	0.488	0.488	mg/kg	50		ND				30%			
2-Butanone (MEK)	ND	0.244	0.488	mg/kg	50		ND				30%			
n-Butylbenzene	ND	0.0244	0.0488	mg/kg	50		ND				30%			
sec-Butylbenzene	ND	0.0244	0.0488	mg/kg	50		ND				30%			
tert-Butylbenzene	ND	0.0244	0.0488	mg/kg	50		ND				30%			
Carbon disulfide	ND	0.244	0.488	mg/kg	50		ND				30%			
Carbon tetrachloride	ND	0.0244	0.0488	mg/kg	50		ND				30%			
Chlorobenzene	ND	0.0122	0.0244	mg/kg	50		ND				30%			
Chloroethane	ND	0.244	0.488	mg/kg	50		ND				30%			
Chloroform	ND	0.0244	0.0488	mg/kg	50		ND				30%			
Chloromethane	ND	0.122	0.244	mg/kg	50		ND				30%			
2-Chlorotoluene	ND	0.0244	0.0488	mg/kg	50		ND				30%			
4-Chlorotoluene	ND	0.0244	0.0488	mg/kg	50		ND				30%			
Dibromochloromethane	ND	0.0488	0.0975	mg/kg	50		ND				30%			
1,2-Dibromo-3-chloropropane	ND	0.122	0.244	mg/kg	50		ND				30%			
1,2-Dibromoethane (EDB)	ND	0.0244	0.0488	mg/kg	50		ND				30%			
Dibromomethane	ND	0.0244	0.0488	mg/kg	50		ND				30%			
1,2-Dichlorobenzene	ND	0.0122	0.0244	mg/kg	50		ND				30%			

Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

Project Manager: Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyce Detection Reporting Limit Units Dilution Spike Amount Source Result % REC % REC<						260D	by EPA 8	npounds	janic Coi	Volatile Org	\		
Bath 23A0903 - EPA 633A0 Prepare: 1/2/4/23 14:11 Analysis: 1/2/5/23 12:35 CSource Sample: Non-SDG (A3A0890-01) 1.3-Dichlorobenzene ND 0.0122 0.0244 mg/kg 50 ND 30% 1.4-Dichlorobenzene ND 0.0122 0.0244 mg/kg 50 ND 30% Dichlorodifluoromethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1.1-Dichlorothene ND 0.0122 0.0244 mg/kg 50 ND 30% 1.1-Dichlorothene ND 0.0122 0.0244 mg/kg 50 ND 30% 1.2-Dichlorothorethene ND 0.0122 0.0244 mg/kg 50 ND 30% 1.2-Dichlorothorethene <th>Notes</th> <th>RPD Limit</th> <th>RPD</th> <th>% REC Limits</th> <th>% REC</th> <th>Source Result</th> <th>Spike Amount</th> <th>Dilution</th> <th>Units</th> <th>Reporting Limit</th> <th>Detection Limit</th> <th>Result</th> <th>Analyte</th>	Notes	RPD Limit	RPD	% REC Limits	% REC	Source Result	Spike Amount	Dilution	Units	Reporting Limit	Detection Limit	Result	Analyte
Duplicate (23A090-DUP1) Prepared: 01/24/23 14:11 Analyzed: 01/25/23 12:45 D Cosure: Sample: Non-SDG (A3A0890-01) 0.0122 0.0244 mg/kg 50 ND 30% 1,4-Dicklorobenzne ND 0.0122 0.0244 mg/kg 50 ND 30% 1,4-Dicklorobenzne ND 0.0122 0.0244 mg/kg 50 ND 30% 1,4-Dickloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1-Dickloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,2-Dickloroethene ND 0.0122 0.0244 mg/kg 50 ND 30% 1,2-Dickloroethene ND 0.0244 0.0488 mg/kg 50 ND 30%						Soi							Batch 23A0903 - EPA 5035A
OC Source Sample: Non-SDG (A3A0890-01) 1,3-Dichlorobenzene ND 0.0122 0.0244 mg/kg 50 ND 30% 1,4-Dichlorobenzene ND 0.0122 0.0244 mg/kg 50 ND 30% Dichlorodfinoromethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1-Dichloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,2-Dichloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,2-Dichloroptopane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,3-Dichloroptopane ND 0.0244 0.0448 mg/kg 50 ND 30% 2,2-Dichloroptopane ND 0.0244	V-15					/23 12:45	yzed: 01/25/	4:11 Anal	01/24/23	Prepared:			Duplicate (23A0903-DUP1)
1,3-Dichlorobenzene ND 0.0122 0.0244 mg/kg 50 ND 30% 1,4-Dichlorobenzene ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1-Dichlorothomethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1-Dichlorothane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1-Dichlorothane ND 0.0122 0.0244 mg/kg 50 ND 30% trans-1,2-Dichlorothene ND 0.0122 0.0244 mg/kg 50 ND 30% 1,2-Dichlorotropane ND 0.0224 0.0448 mg/kg 50 ND 30% 1,2-Dichloropropane ND 0.0244 0.0488 mg/kg 50 ND 30% 1,1-Dichloropropene<												A0800-01)	QC Source Sample: Non-SDG (A3
1.4-DichlorobenzeneND 0.0122 0.0244 mg/kg 50 \cdots ND \cdots <td></td> <td>30%</td> <td></td> <td></td> <td></td> <td>ND</td> <td></td> <td>50</td> <td>mg/kg</td> <td>0.0244</td> <td>0.0122</td> <td>ND</td> <td>1,3-Dichlorobenzene</td>		30%				ND		50	mg/kg	0.0244	0.0122	ND	1,3-Dichlorobenzene
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		30%				ND		50	mg/kg	0.0244	0.0122	ND	1,4-Dichlorobenzene
1,1-Dichloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,2-Dichloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1-Dichloroethene ND 0.0122 0.0244 mg/kg 50 ND 30% trans-1,2-Dichloroethene ND 0.0122 0.0244 mg/kg 50 ND 30% 1,2-Dichloroethene ND 0.0122 0.0244 mg/kg 50 ND 30% 1,2-Dichloropropane ND 0.0244 0.0488 mg/kg 50 ND 30% 1,1-Dichloropropene ND 0.0244 0.0488 mg/kg 50 ND 30% 1,1-Dichloropropene ND 0.0244 0.0488 mg/kg 50 ND 30% Lihybenzene		30%				ND		50	mg/kg	0.0975	0.0488	ND	Dichlorodifluoromethane
1,2-Dichloroethane (EDC) ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1-Dichloroethene ND 0.0122 0.0244 mg/kg 50 ND 30% rusan 1,2-Dichloroethene ND 0.0122 0.0244 mg/kg 50 ND 30% 1,2-Dichloroethene ND 0.0122 0.0244 mg/kg 50 ND 30% 1,2-Dichloropropane ND 0.0124 0.0488 mg/kg 50 ND 30% 2,2-Dichloropropane ND 0.0244 0.0488 mg/kg 50 ND 30% trans.1,3-Dichloropropene ND 0.0244 0.0488 mg/kg 50 ND 30% trans.1,3-Dichloropropene ND 0.0122 0.0244 mg/kg 50 ND 30% Lehybenchene		30%				ND		50	mg/kg	0.0244	0.0122	ND	1,1-Dichloroethane
1,1-Dichlorocthene ND 0.0122 0.0244 mg/kg 50 ND 30% cis-1,2-Dichlorocthene ND 0.0122 0.0244 mg/kg 50 ND 30% trans-1,2-Dichlorocthene ND 0.0122 0.0244 mg/kg 50 ND 30% 1,2-Dichloropropane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,2-Dichloropropane ND 0.0244 0.0488 mg/kg 50 ND 30% 2,2-Dichloropropane ND 0.0244 0.0488 mg/kg 50 ND 30% trans-1,3-Dichloropropene ND 0.0244 0.0488 mg/kg 50 ND 30% Ehylbenzene ND 0.0122 0.0244 mg/kg 50 ND 30% Leproyblenzene <td></td> <td>30%</td> <td></td> <td></td> <td></td> <td>ND</td> <td></td> <td>50</td> <td>mg/kg</td> <td>0.0244</td> <td>0.0122</td> <td>ND</td> <td>1,2-Dichloroethane (EDC)</td>		30%				ND		50	mg/kg	0.0244	0.0122	ND	1,2-Dichloroethane (EDC)
cis-1,2-Dichloroethene ND 0.0122 0.0244 mg/kg 50 ND 30% trans-1,2-Dichloroethene ND 0.0122 0.0244 mg/kg 50 ND 30% 1,2-Dichloropropane ND 0.0124 0.0488 mg/kg 50 ND 30% 2,2-Dichloropropane ND 0.0244 0.0488 mg/kg 50 ND 30% 1,1-Dichloropropane ND 0.0244 0.0488 mg/kg 50 ND 30% trans-1,3-Dichloropropene ND 0.0244 0.0488 mg/kg 50 ND 30% Ehylbenzne ND 0.0244 0.0488 mg/kg 50 ND 30% Lexachlorobudiene ND 0.0244 0.0488 mg/kg		30%				ND		50	mg/kg	0.0244	0.0122	ND	1,1-Dichloroethene
trans-1,2-DichloroetheneND 0.0122 0.0244 mg/kg 50 ND 30% 1,2-DichloropropaneND 0.0122 0.0244 mg/kg 50 ND 30% 2,2-DichloropropaneND 0.0244 0.0488 mg/kg 50 ND 30% 2,2-DichloropropaneND 0.0244 0.0488 mg/kg 50 ND 30% (is-1,3-DichloropropeneND 0.0244 0.0488 mg/kg 50 ND 30% EthylbenzeneND 0.0244 0.0488 mg/kg 50 ND 30% EthylbenzeneND 0.0244 0.0488 mg/kg 50 ND 30% EthylbenzeneND 0.0244 0.0488 mg/kg 50 ND 30% 2-HexanlorND 0.0244 0.0488 mg/kg 50 ND 30% 1sopropylbanzeneND 0.0244 0.0488 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK)ND 0.244 0.488 mg/kg 50 ND 30% MethylenchlorideND 0.0244 0.488 mg/kg 50 ND <t< td=""><td></td><td>30%</td><td></td><td></td><td></td><td>ND</td><td></td><td>50</td><td>mg/kg</td><td>0.0244</td><td>0.0122</td><td>ND</td><td>cis-1,2-Dichloroethene</td></t<>		30%				ND		50	mg/kg	0.0244	0.0122	ND	cis-1,2-Dichloroethene
1,2-Dichloropropane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,3-Dichloropropane ND 0.0244 0.0488 mg/kg 50 ND 30% 2,2-Dichloropropane ND 0.0244 0.0488 mg/kg 50 ND 30% 1,1-Dichloropropene ND 0.0244 0.0488 mg/kg 50 ND 30% trans-1,3-Dichloropropene ND 0.0244 0.0488 mg/kg 50 ND 30% Ethylbenzene ND 0.0122 0.0244 mg/kg 50 ND 30% Ethylbenzene ND 0.0448 0.0975 mg/kg 50 ND 30% Lexanone ND 0.0244 0.0488 mg/kg 50 ND 30% Alsopropitolurene ND		30%				ND		50	mg/kg	0.0244	0.0122	ND	trans-1,2-Dichloroethene
1,3-Dichloropropane ND 0.0244 0.0488 mg/kg 50 ND 30% 2,2-Dichloropropane ND 0.0244 0.0488 mg/kg 50 ND 30% 1,1-Dichloropropene ND 0.0244 0.0488 mg/kg 50 ND 30% cis-1,3-Dichloropropene ND 0.0244 0.0488 mg/kg 50 ND 30% trans-1,3-Dichloropropene ND 0.0244 0.0488 mg/kg 50 ND 30% Hexachlorobutadiene ND 0.0122 0.0244 mg/kg 50 ND 30% Isopropylbenzene ND 0.0244 0.0488 mg/kg 50 ND 30% 4-stopropylbenzene ND 0.0244 0.0488 mg/kg 50 ND 30% 4-stopropylbenzen		30%				ND		50	mg/kg	0.0244	0.0122	ND	1,2-Dichloropropane
2,2-DichloropropaneND 0.0244 0.0488 mg/kg 50 ND 30% 1,1-DichloropropeneND 0.0244 0.0488 mg/kg 50 ND 30% trans-1,3-DichloropropeneND 0.0244 0.0488 mg/kg 50 ND 30% EthylbenzeneND 0.02244 0.0488 mg/kg 50 ND 30% EthylbenzeneND 0.0122 0.0244 mg/kg 50 ND 30% 2-HexanoneND 0.0488 0.0975 mg/kg 50 ND 30% 1sopropylbenzeneND 0.0244 0.0488 mg/kg 50 ND 30% 4-IsopropylbenzeneND 0.0244 0.0488 mg/kg 50 ND 30% 4-IsopropylbenzeneND 0.0244 0.0488 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK)ND 0.244 0.488 mg/kg 50 ND 30% A-Methylene chlorideND 0.0244 0.4488 mg/kg 50 ND 30% A-Methylene fulleneND 0.0244 0.4488 mg/kg 50 ND 3		30%				ND		50	mg/kg	0.0488	0.0244	ND	1,3-Dichloropropane
1,1-DichloropropeneND 0.0244 0.0488 mg/kg 50 ND $$ 30% cis-1,3-DichloropropeneND 0.0244 0.0488 mg/kg 50 ND 30% EthylbenzeneND 0.0244 0.0488 mg/kg 50 ND 30% HexachlorobutadieneND 0.0122 0.0244 mg/kg 50 ND 30% 2-HexanoneND 0.0488 0.0975 mg/kg 50 ND 30% IsopropylbenzeneND 0.0244 0.0488 mg/kg 50 ND 30% 4-IsopropylbuleneND 0.0244 0.0488 mg/kg 50 ND 30% 4-IsopropylbuleneND 0.2244 0.488 mg/kg 50 ND 30% 4-IsopropylbuleneND 0.244 0.488 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK)ND 0.244 0.488 mg/kg 50 ND 30% MaphthaleneND 0.0244 0.0488 mg/kg 50 ND 30% NphthaleneND 0.0122 0.0244 mg/kg 50 ND 30% <td></td> <td>30%</td> <td></td> <td></td> <td></td> <td>ND</td> <td></td> <td>50</td> <td>mg/kg</td> <td>0.0488</td> <td>0.0244</td> <td>ND</td> <td>2,2-Dichloropropane</td>		30%				ND		50	mg/kg	0.0488	0.0244	ND	2,2-Dichloropropane
cis-1,3-Dichloropropene ND 0.0244 0.0488 mg/kg 50 ND 30% trans-1,3-Dichloropropene ND 0.0244 0.0488 mg/kg 50 ND 30% Ethylbenzene ND 0.0122 0.0244 mg/kg 50 ND 30% Hexachlorobutadiene ND 0.0488 0.0975 mg/kg 50 ND 30% 2-Hexanone ND 0.0244 0.0488 mg/kg 50 ND 30% Isopropylbuncene ND 0.0244 0.0488 mg/kg 50 ND 30% 4-Isopropylbunene ND 0.244 0.488 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK) ND 0.244 0.488 mg/kg 50 ND 30% Naphthalene ND<		30%				ND		50	mg/kg	0.0488	0.0244	ND	1,1-Dichloropropene
trans-1,3-DichloropropeneND 0.0244 0.0488 mg/kg 50 ND 30% EthylbenzeneND 0.0122 0.0244 mg/kg 50 ND 30% HexachlorobutadieneND 0.0488 0.0975 mg/kg 50 ND 30% 2-HexanoneND 0.488 0.488 mg/kg 50 ND 30% IsopropylbenzeneND 0.0244 0.0488 mg/kg 50 ND 30% 4-IsopropylbolueneND 0.0244 0.0488 mg/kg 50 ND 30% Methylene chlorideND 0.244 0.488 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK)ND 0.244 0.488 mg/kg 50 ND 30% Methyl tert-butyl ether (MTBE)ND 0.0244 0.0488 mg/kg 50 ND 30% NaphthaleneND 0.0122 0.0244 mg/kg 50 ND 30% NaphthaleneND 0.0224 0.0488 mg/kg 50 ND 30% Nup thaleneND 0.0244 0.0488 mg/kg 50 ND 30% <td></td> <td>30%</td> <td></td> <td></td> <td></td> <td>ND</td> <td></td> <td>50</td> <td>mg/kg</td> <td>0.0488</td> <td>0.0244</td> <td>ND</td> <td>cis-1,3-Dichloropropene</td>		30%				ND		50	mg/kg	0.0488	0.0244	ND	cis-1,3-Dichloropropene
Ethylbenzene ND 0.0122 0.0244 mg/kg 50 ND 30% Hexachlorobutadiene ND 0.0488 0.0975 mg/kg 50 ND 30% 2-Hexanone ND 0.488 0.488 mg/kg 50 ND 30% Isopropylbenzene ND 0.0244 0.0488 mg/kg 50 ND 30% 4-lsopropylbenzene ND 0.0244 0.0488 mg/kg 50 ND 30% 4-lsopropylbenzene ND 0.244 0.488 mg/kg 50 ND 30% Methyl-2-pentanone (MiBK) ND 0.244 0.488 mg/kg 50 ND 30% Methyl tert-butyl ether (MTBE) ND 0.0244 0.0488 mg/kg 50 ND 30% Styrene ND		30%				ND		50	mg/kg	0.0488	0.0244	ND	trans-1,3-Dichloropropene
HexachlorobutadieneND 0.0488 0.0975 mg/kg 50 ND $$ 30% 2-HexanoneND 0.488 0.488 mg/kg 50 ND 30% IsopropylbenzeneND 0.0244 0.0488 mg/kg 50 ND 30% 4-IsopropylbenzeneND 0.0244 0.0488 mg/kg 50 ND 30% Methylene chlorideND 0.244 0.488 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK)ND 0.244 0.488 mg/kg 50 ND 30% Methyl tert-butyl ether (MTBE)ND 0.0244 0.488 mg/kg 50 ND 30% NaphthaleneND 0.0244 0.0488 mg/kg 50 ND 30% NaptraeND 0.0122 0.0244 mg/kg 50 ND 30% StyreneND 0.0224 0.0488 mg/kg 50 ND 30% 1,1,2.2-TetrachloroethaneND 0.0122 0.0244 mg/kg 50 ND 30% 1,2,3-TrichloroethaneND 0.0122 0.0244 mg/kg 50 ND		30%				ND		50	mg/kg	0.0244	0.0122	ND	Ethylbenzene
2-Hexanone ND 0.488 0.488 mg/kg 50 ND 30% Isopropylbenzene ND 0.0244 0.0488 mg/kg 50 ND 30% 4-Isopropylbenzene ND 0.0244 0.0488 mg/kg 50 ND 30% Methylene chloride ND 0.244 0.488 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK) ND 0.244 0.488 mg/kg 50 ND 30% Methyl tert-butyl ether (MTBE) ND 0.0244 0.0488 mg/kg 50 ND 30% Naphthalene ND 0.0122 0.0244 mg/kg 50 ND 30% Styrene ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1,2,2-Tetrachloroethane ND<		30%				ND		50	mg/kg	0.0975	0.0488	ND	Hexachlorobutadiene
Isopropylbenzene ND 0.0244 0.0488 mg/kg 50 ND 30% 4-Isopropylbunene ND 0.0244 0.0488 mg/kg 50 ND 30% Methylene chloride ND 0.244 0.488 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK) ND 0.244 0.488 mg/kg 50 ND 30% Methyl tert-butyl ether (MTBE) ND 0.0244 0.0488 mg/kg 50 ND 30% Naphthalene ND 0.0122 0.0244 mg/kg 50 ND 30% Styrene ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1,2,2-Tetrachloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1,2,2-Tetrachloroethane <td></td> <td>30%</td> <td></td> <td></td> <td></td> <td>ND</td> <td></td> <td>50</td> <td>mg/kg</td> <td>0.488</td> <td>0.488</td> <td>ND</td> <td>2-Hexanone</td>		30%				ND		50	mg/kg	0.488	0.488	ND	2-Hexanone
4-Isopropyltoluene ND 0.0244 0.0488 mg/kg 50 ND 30% Methylene chloride ND 0.244 0.488 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK) ND 0.244 0.488 mg/kg 50 ND 30% Methyl tert-butyl ether (MTBE) ND 0.0244 0.488 mg/kg 50 ND 30% Naphthalene ND 0.0244 0.0488 mg/kg 50 ND 30% Naphthalene ND 0.0122 0.0244 mg/kg 50 ND 30% Styrene ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1,2,2-Tetrachloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1,2,2-Tetrachloroethane		30%				ND		50	mg/kg	0.0488	0.0244	ND	Isopropylbenzene
Methylene chloride ND 0.244 0.488 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK) ND 0.244 0.488 mg/kg 50 ND 30% Methyl tert-butyl ether (MTBE) ND 0.0244 0.0488 mg/kg 50 ND 30% Naphthalene ND 0.0244 0.0488 mg/kg 50 ND 30% N-Propylbenzene ND 0.0122 0.0244 mg/kg 50 ND 30% Styrene ND 0.0244 0.0488 mg/kg 50 ND 30% 1,1,2.2-Tetrachloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1,2.2-Tetrachloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% Toluene <t< td=""><td></td><td>30%</td><td></td><td></td><td></td><td>ND</td><td></td><td>50</td><td>mg/kg</td><td>0.0488</td><td>0.0244</td><td>ND</td><td>4-Isopropyltoluene</td></t<>		30%				ND		50	mg/kg	0.0488	0.0244	ND	4-Isopropyltoluene
4-Methyl-2-pentanone (MiBK) ND 0.244 0.488 mg/kg 50 ND 30% Methyl tert-butyl ether (MTBE) ND 0.0244 0.0488 mg/kg 50 ND 30% Naphthalene ND 0.0488 0.0975 mg/kg 50 ND 30% n-Propylbenzene ND 0.0122 0.0244 mg/kg 50 ND 30% Styrene ND 0.0244 0.0488 mg/kg 50 ND 30% 1,1,2.7-Etrachloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1,2.2-Tetrachloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% Toluene ND 0.0224 0.0488 mg/kg 50 ND 30% 1,2,3-Trichlorobenzene		30%				ND		50	mg/kg	0.488	0.244	ND	Methylene chloride
Methyl tert-butyl ether (MTBE) ND 0.0244 0.0488 mg/kg 50 ND 30% Naphthalene ND 0.0488 0.0975 mg/kg 50 ND 30% n-Propylbenzene ND 0.0122 0.0244 mg/kg 50 ND 30% Styrene ND 0.0244 0.0488 mg/kg 50 ND 30% 1,1,2-Tetrachloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1,2-Tetrachloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1,2-Tetrachloroethane ND 0.02244 0.0488 mg/kg 50 ND 30% Toluene ND 0.0244 0.0488 mg/kg 50 ND 30% 1,2,3-Trichlorobenzene <		30%				ND		50	mg/kg	0.488	0.244	ND	4-Methyl-2-pentanone (MiBK)
Naphthalene ND 0.0488 0.0975 mg/kg 50 ND 30% n-Propylbenzene ND 0.0122 0.0244 mg/kg 50 ND 30% Styrene ND 0.0244 0.0488 mg/kg 50 ND 30% 1,1,2-Tetrachloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1,2-Tetrachloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1,2-Tetrachloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% Tetrachloroethane (PCE) ND 0.0122 0.0244 mg/kg 50 ND 30% 1,2,3-Trichlorobenzene ND 0.122 0.244 mg/kg 50 <td></td> <td>30%</td> <td></td> <td></td> <td></td> <td>ND</td> <td></td> <td>50</td> <td>mg/kg</td> <td>0.0488</td> <td>0.0244</td> <td>ND</td> <td>Methyl tert-butyl ether (MTBE)</td>		30%				ND		50	mg/kg	0.0488	0.0244	ND	Methyl tert-butyl ether (MTBE)
n-Propylbenzene ND 0.0122 0.0244 mg/kg 50 ND 30% Styrene ND 0.0244 0.0488 mg/kg 50 ND 30% 1,1,1,2-Tetrachloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1,2,2-Tetrachloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1,2,2-Tetrachloroethane ND 0.0244 0.0488 mg/kg 50 ND 30% Tetrachloroethane (PCE) ND 0.0122 0.0244 mg/kg 50 ND 30% Toluene ND 0.0244 0.0488 mg/kg 50 ND 30% 1,2,3-Trichlorobenzene ND 0.122 0.244 mg/kg 50 ND 30% 1,2,4-Trichlorobenzene ND		30%				ND		50	mg/kg	0.0975	0.0488	ND	Naphthalene
Styrene ND 0.0244 0.0488 mg/kg 50 ND 30% 1,1,1,2-Tetrachloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1,2,2-Tetrachloroethane ND 0.0244 0.0488 mg/kg 50 ND 30% Tetrachloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% Tetrachloroethane (PCE) ND 0.0122 0.0244 mg/kg 50 ND 30% Toluene ND 0.0244 0.0488 mg/kg 50 ND 30% 1,2,3-Trichlorobenzene ND 0.122 0.244 mg/kg 50 ND 30% 1,2,4-Trichlorobenzene ND 0.122 0.244 mg/kg 50 ND 30% 1,1,1-Trichloroethane		30%				ND		50	mg/kg	0.0244	0.0122	ND	n-Propylbenzene
ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1,2,2-Tetrachloroethane ND 0.0244 0.0488 mg/kg 50 ND 30% Tetrachloroethane ND 0.0244 0.0488 mg/kg 50 ND 30% Tetrachloroethane (PCE) ND 0.0122 0.0244 mg/kg 50 ND 30% Toluene ND 0.0244 0.0488 mg/kg 50 ND 30% 1,2,3-Trichlorobenzene ND 0.122 0.244 mg/kg 50 ND 30% 1,2,4-Trichlorobenzene ND 0.122 0.244 mg/kg 50 ND 30% 1,1,1-Trichloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1,1-Trichloroethane ND 0.0		30%				ND		50	mg/kg	0.0488	0.0244	ND	Styrene
ND 0.0244 0.0488 mg/kg 50 ND 30% Tetrachloroethene (PCE) ND 0.0122 0.0244 mg/kg 50 ND 30% Toluene ND 0.0244 0.0488 mg/kg 50 ND 30% 1,2,3-Trichlorobenzene ND 0.122 0.244 mg/kg 50 ND 30% 1,2,4-Trichlorobenzene ND 0.122 0.244 mg/kg 50 ND 30% 1,1,1-Trichloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1,1-Trichloroethane ND 0.0122 0.0244 mg/kg 50 ND 30%		30%				ND		50	mg/kg	0.0244	0.0122	ND	1,1,1,2-Tetrachloroethane
Tetrachloroethene (PCE) ND 0.0122 0.0244 mg/kg 50 ND 30% Toluene ND 0.0244 0.0488 mg/kg 50 ND 30% 1,2,3-Trichlorobenzene ND 0.122 0.244 mg/kg 50 ND 30% 1,2,4-Trichlorobenzene ND 0.122 0.244 mg/kg 50 ND 30% 1,1,1-Trichloroethane ND 0.0122 0.0244 mg/kg 50 ND 30% 1,1,1-Trichloroethane ND 0.0122 0.0244 mg/kg 50 ND 30%		30%				ND		50	mg/kg	0.0488	0.0244	ND	1,1,2,2-Tetrachloroethane
Toluene ND 0.0244 0.0488 mg/kg 50 ND 30% 1,2,3-Trichlorobenzene ND 0.122 0.244 mg/kg 50 ND 30% 1,2,4-Trichlorobenzene ND 0.122 0.244 mg/kg 50 ND 30% 1,1,1-Trichloroethane ND 0.0122 0.0244 mg/kg 50 ND 30%		30%				ND		50	mg/kg	0.0244	0.0122	ND	Tetrachloroethene (PCE)
1,2,3-Trichlorobenzene ND 0.122 0.244 mg/kg 50 ND 30% 1,2,4-Trichlorobenzene ND 0.122 0.244 mg/kg 50 ND 30% 1,1,1-Trichloroethane ND 0.0122 0.0244 mg/kg 50 ND 30%		30%				ND		50	mg/kg	0.0488	0.0244	ND	Toluene
1,2,4-Trichlorobenzene ND 0.122 0.244 mg/kg 50 ND 30% 1,1,1-Trichloroethane ND 0.0122 0.0244 mg/kg 50 ND 30%		30%				ND		50	mg/kg	0.244	0.122	ND	1,2,3-Trichlorobenzene
1,1,1-Trichloroethane ND 0.0122 0.0244 mg/kg 50 ND 30%		30%				ND		50	mg/kg	0.244	0.122	ND	1,2,4-Trichlorobenzene
		30%				ND		50	mg/kg	0.0244	0.0122	ND	1,1,1-Trichloroethane
1,1,2-1richloroethane ND 0.0122 0.0244 mg/kg 50 ND 30%		30%				ND		50	mg/kg	0.0244	0.0122	ND	1,1,2-Trichloroethane

Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

Project Manager: Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

		١	/olatile Or	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0903 - EPA 5035A							Soi	I				
Duplicate (23A0903-DUP1)			Preparec	l: 01/24/23	14:11 Anal	yzed: 01/25	/23 12:45					V-15
QC Source Sample: Non-SDG (A3)	<u>A0800-01)</u>											
Trichloroethene (TCE)	ND	0.0122	0.0244	mg/kg	50		ND				30%	
Trichlorofluoromethane	ND	0.0488	0.0975	mg/kg	50		ND				30%	
1,2,3-Trichloropropane	ND	0.0244	0.0488	mg/kg	50		ND				30%	
1,2,4-Trimethylbenzene	ND	0.0244	0.0488	mg/kg	50		ND				30%	
1,3,5-Trimethylbenzene	ND	0.0244	0.0488	mg/kg	50		ND				30%	
Vinyl chloride	ND	0.0122	0.0244	mg/kg	50		ND				30%	
m,p-Xylene	ND	0.0244	0.0488	mg/kg	50		ND				30%	
o-Xylene	ND	0.0122	0.0244	mg/kg	50		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 104 %	Limits: 80	-120 %	Dilt	ution: 1x					
Toluene-d8 (Surr)			98 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			100 %	79	-120 %		"					
QC Source Sample: Non-SDG (A3)	A0822-01)					<u></u>						
Acetone	ND	0.578	1.16	mg/kg	50		ND				30%	
Acrylonitrile	ND	0.0578	0.116	mg/kg	50		ND				30%	
Benzene	ND	0.00578	0.0116	mg/kg	50		ND				30%	
Bromobenzene	ND	0.0145	0.0289	mg/kg	50		ND				30%	
Bromochloromethane	ND	0.0289	0.0578	mg/kg	50		ND				30%	
Bromodichloromethane	ND	0.0289	0.0578	mg/kg	50		ND				30%	
Bromoform	ND	0.0578	0.116	mg/kg	50		ND				30%	
Bromomethane	ND	0.578	0.578	mg/kg	50		ND				30%	
2-Butanone (MEK)	ND	0.289	0.578	mg/kg	50		ND				30%	
n-Butylbenzene	ND	0.202	0.202	mg/kg	50		ND				30%	R-0
sec-Butylbenzene	ND	0.0289	0.0578	mg/kg	50		ND				30%	
tert-Butylbenzene	ND	0.0289	0.0578	mg/kg	50		ND				30%	
Carbon disulfide	ND	0.289	0.578	mg/kg	50		ND				30%	
Carbon tetrachloride	ND	0.0289	0.0578	mg/kg	50		ND				30%	
Chlorobenzene	ND	0.0145	0.0289	mg/kg	50		ND				30%	
Chloroethane	ND	0.289	0.578	mg/kg	50		ND				30%	
Chloroform	ND	0.0289	0.0578	mg/kg	50		ND				30%	
Chloromethane	ND	0.145	0.289	mg/kg	50		ND				30%	
2-Chlorotoluene	ND	0.0289	0.0578	mg/kg	50		ND				30%	

Apex Laboratories



Apex Laboratories, LLC

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 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

Project Manager: Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyc: Detection Roporting Limit Units Dilution Spike Anount Source Result % REC % REC PM Result Bath 230603 - EPA 6053				Volatile Org	ganic Co	mpounds	by EPA 8	3260D					
Batch 234093- 5PA 59354 Prepared: 01/24/23 17.26 Analyzed: 01/25/23 17.00 Y C_Sumer: Samelie: Non: SDG (A340852-01) AC. Shore SGG (A340852-01) 4 Chlarotophene IND 0.0578 mg/kg S0 30% 1.2-Dibromochano (EDB) ND 0.0578 mg/kg S0 ND 30% 1.2-Dibromochane (EDB) ND 0.0578 mg/kg S0 ND 30% 1.2-Dibromochane (EDB) ND 0.0145 0.0289 mg/kg S0 ND 30% 1.2-Dichlorobenzane ND 0.0145 0.0289 mg/kg 50	Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Duplicate (23.04093-DUP2) Prepared: 01-24/23 17.26 Analyzet: 01-25/23 17.00 V OCSamere Sample: Non-SDG (A3.0872-000) N 0.0289 0.0578 mg/kg 50 ND 30% L2-Dibromo-1-chloropropane ND 0.01578 0.016 mg/kg 50 ND 30% L2-Dibromo-thane (EDB) ND 0.0289 0.0578 mg/kg 50 ND 30% L3-Diblorobenzene ND 0.0145 0.0289 mg/kg 50 ND 30% L3-Diblorobenzene ND 0.0145 0.0289 mg/kg 50 ND 30% L4-Diblorobenzene ND 0.0145 0.0289 mg/kg 50 ND 30% L4-Diblorobenzene ND 0.0145 0.0289 mg/kg 50 ND 30	Batch 23A0903 - EPA 5035A							Soi	il				
O.C.Source Sample: Non-SDG (ALAMSE2-01) 4.C.Horotolucen ND 0.0289 0.0578 mg/kg 50 ND 30% 1.2-Dibromochomethane ND 0.0145 0.289 mg/kg 50 ND 30% 1.2-Dibromochane (EDB) ND 0.0289 0.0578 mg/kg 50 ND 30% Dibromochane (EDB) ND 0.0289 0.0578 mg/kg 50 ND 30% Dibromochane (EDB) ND 0.0145 0.0289 mg/kg 50 ND 30% 1.1-Dichlorothenzene ND 0.0145 0.0289 mg/kg 50 ND 30% 1.1-Dichlorothane ND 0.0145 0.0289 mg/kg 50 ND 30% 1.1-Dichlorothane ND 0.0145 0.0289 mg/kg 50	Duplicate (23A0903-DUP2)			Prepared	: 01/24/23	17:26 Anal	lyzed: 01/25	/23 17:00					V-15
4-Chloroduene ND 0.0278 0.0178 mg/kg 50 ND 30% Dibromochloromethane ND 0.0578 0.116 mg/kg 50 ND 30% 1.2-Dibromochane (EDB) ND 0.0289 0.0578 mg/kg 50 ND 30% 1.2-Dibritorobenzane ND 0.0145 0.0289 mg/kg 50 ND 30% 1.3-Dichlorobenzane ND 0.0145 0.0289 mg/kg 50 ND 30% 1.4-Dichlorobenzane ND 0.0145 0.0289 mg/kg 50 ND 30% 1.1-Dichlorofenzane ND 0.0145 0.0289 mg/kg 50 ND 30% 1.1-Dichlorofenzene ND 0.0145 0.0289 mg/kg 50 ND 30% 1.2-Dichlororotene	QC Source Sample: Non-SDG (A3	A0822-01)											
Dibromochloromethane ND 0.0378 0.116 mg/kg 50 ND 30% 1.2-Dibromochana (EDB) ND 0.0289 0.0578 mg/kg 50 ND 30% Dibromomethane ND 0.0289 0.0578 mg/kg 50 ND 30% L2-Dichlorobenzene ND 0.0145 0.0289 mg/kg 50 ND 30% 1,4-Dichlorobenzene ND 0.0145 0.0289 mg/kg 50 ND 30% 1,4-Dichlorobenzene ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1-Dichloroethane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1-Dichloroethane ND 0.0145 0.0289 mg/kg 50<	4-Chlorotoluene	ND	0.0289	0.0578	mg/kg	50		ND				30%	
1.2-Dibromo-3-chloropropaneND0.1450.289mg/kg50ND30%1.2-Dibromoethane (EDB)ND0.02890.0578mg/kg50ND30%1.2-DichlorobenzeneND0.01450.0289mg/kg50ND30%1.2-DichlorobenzeneND0.01450.0289mg/kg50ND30%1.4-DichlorobenzeneND0.01450.0289mg/kg50ND30%1.4-DichlorobenzeneND0.01450.0289mg/kg50ND30%1.1-DichlorothaneND0.01450.0289mg/kg50ND30%1.1-DichlorothaneND0.01450.0289mg/kg50ND30%1.1-DichlorotheneND0.01450.0289mg/kg50ND30%1.2-DichlorotheneND0.01450.0289mg/kg50ND30%1.2-DichlorotheneND0.01450.0289mg/kg50ND30%1.2-DichlorotpopaneND0.02890.0578mg/kg50ND30%1.2-DichlorotpopaneND0.02890.0578mg/kg50	Dibromochloromethane	ND	0.0578	0.116	mg/kg	50		ND				30%	
1.2-Dibromochane (EDB) ND 0.0289 0.0578 mg/kg 50 $$ ND $$ $$ $$ 30% Dibromochane ND 0.0289 0.0578 mg/kg 50 $$ ND $$ $$ 30% 1,2-Dichlorobenzene ND 0.0145 0.0289 mg/kg 50 $$ ND $$ $$ 30% 1,4-Dichlorobenzene ND 0.0145 0.0289 mg/kg 50 $$ ND $$ $$ 30% Dichlorobinzene ND 0.0145 0.0289 mg/kg 50 $$ ND $$ $$ 30% 1,1-Dichloroethane ND 0.0145 0.0289 mg/kg 50 $$ ND $$ $$ 30% 1,2-Dichloroethene ND 0.0145 0.0289 mg/kg 50 $$ ND $$ $$ 30% 1,2-Dichloroethene ND 0.0145 0.0289 mg/kg 50 $$ ND	1,2-Dibromo-3-chloropropane	ND	0.145	0.289	mg/kg	50		ND				30%	
Dibromomethane ND 0.0289 0.0578 mg/kg 50 ND 30% 1.2-Dichlorobenzene ND 0.0145 0.0289 mg/kg 50 ND 30% 1.3-Dichlorobenzene ND 0.0145 0.0289 mg/kg 50 ND 30% Dichlorobenzene ND 0.0145 0.0289 mg/kg 50 ND 30% 1.1-Dichlorocthane ND 0.0145 0.0289 mg/kg 50 ND 30% 1.1-Dichlorocthane ND 0.0145 0.0289 mg/kg 50 ND 30% 1.1-Dichlorocthene ND 0.0145 0.0289 mg/kg 50 ND 30% 1.2-Dichlorocthene ND 0.0145 0.0289 mg/kg 50	1,2-Dibromoethane (EDB)	ND	0.0289	0.0578	mg/kg	50		ND				30%	
1,2-Dichlorobenzene ND 0.0145 0.0289 mg/kg 50 ND 30% 1,3-Dichlorobenzene ND 0.0145 0.0289 mg/kg 50 ND 30% 1,4-Dichlorobenzene ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1-Dichloroethane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1-Dichloroethane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,2-Dichloroethane ND 0.0145 0.0289 mg/kg 50 ND 30% trans-1,2-Dichloroethene ND 0.0145 0.0289 mg/kg 50 ND 30% 1,2-Dichloropropane ND 0.0289 0.0578 mg/kg 50 ND 30% 1,1-Dichloropropene </td <td>Dibromomethane</td> <td>ND</td> <td>0.0289</td> <td>0.0578</td> <td>mg/kg</td> <td>50</td> <td></td> <td>ND</td> <td></td> <td></td> <td></td> <td>30%</td> <td></td>	Dibromomethane	ND	0.0289	0.0578	mg/kg	50		ND				30%	
1,3-Dichlorobenzene ND 0.0145 0.0289 mg/kg 50 ND 30% 1,4-Dichlorobenzene ND 0.0145 0.0289 mg/kg 50 ND 30% Dichlorodifluoromethane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1-Dichloroethane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1-Dichloroethane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1-Dichloroethene ND 0.0145 0.0289 mg/kg 50 ND 30% 1,2-Dichloroethene ND 0.0145 0.0289 mg/kg 50 ND 30% 1,2-Dichloropropane ND 0.0289 0.0578 mg/kg 50 ND 30% 1,1-Dichloropropene <td>1,2-Dichlorobenzene</td> <td>ND</td> <td>0.0145</td> <td>0.0289</td> <td>mg/kg</td> <td>50</td> <td></td> <td>ND</td> <td></td> <td></td> <td></td> <td>30%</td> <td></td>	1,2-Dichlorobenzene	ND	0.0145	0.0289	mg/kg	50		ND				30%	
1,4-DichlorobenzeneND 0.0145 0.0289 mg/kg 50 ND 30% DichlorodifluoromethaneND 0.0578 0.116 mg/kg 50 ND 30% 1,1-DichloroethaneND 0.0145 0.0289 mg/kg 50 ND 30% 1,2-DichloroethaneND 0.0145 0.0289 mg/kg 50 ND 30% 1,1-DichloroethaneND 0.0145 0.0289 mg/kg 50 ND 30% 1,2-DichloroetheneND 0.0145 0.0289 mg/kg 50 ND 30% 1,2-DichloroptopaneND 0.0145 0.0289 mg/kg 50 ND 30% 1,2-DichloroptopaneND 0.0145 0.0289 mg/kg 50 ND 30% 1,2-DichloroptopaneND 0.0289 0.0578 mg/kg 50 ND 30% 2,2-DichloroptopeneND 0.0289 0.0578 mg/kg 50 ND 30% 1,1-DichloroptopeneND 0.0289 0.0578 mg/kg 50 ND 30% 1,1-DichloroptopeneND 0.0289 0.0578 mg/kg 50 ND	1,3-Dichlorobenzene	ND	0.0145	0.0289	mg/kg	50		ND				30%	
DicklorodifluoromethaneND 0.0578 0.116 mg/kg 50 $$ ND $$ $$ $$ 30% $1,1$ -DickloroethaneND 0.0145 0.0289 mg/kg 50 $$ ND $$ $$ 30% $1,2$ -DickloroethaneND 0.0145 0.0289 mg/kg 50 $$ ND $$ $$ $$ 30% $1,1$ -DickloroetheneND 0.0145 0.0289 mg/kg 50 $$ ND $$ $$ $$ 30% $1,2$ -DickloroetheneND 0.0145 0.0289 mg/kg 50 $$ ND $$ $$ $$ 30% $1,2$ -DickloroetheneND 0.0145 0.0289 mg/kg 50 $$ ND $$ $$ $$ 30% $1,2$ -DickloropropaneND 0.0145 0.0289 mg/kg 50 $$ ND $$ $$ $$ 30% $1,2$ -DickloropropaneND 0.0289 0.0578 mg/kg 50 $$ ND $$ $$ 30% $2,2$ -DickloropropaneND 0.0289 0.0578 mg/kg 50 $$ ND $$ $$ 30% $1,1$ -DickloropropeneND 0.0289 0.0578 mg/kg 50 $$ ND $$ $$ 30% $1,1$ -DickloropropeneND 0.0289 0.0578 mg/kg 50 $$ ND $$ $$ 30% $1,1$ -Di	1,4-Dichlorobenzene	ND	0.0145	0.0289	mg/kg	50		ND				30%	
1,1-DichloroethaneND 0.0145 0.0289 mg/kg 50 ND 30% 1,2-Dichloroethane (EDC)ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1-DichloroethaneND 0.0145 0.0289 mg/kg 50 ND 30% $cis-1,2-Dichloroethane$ ND 0.0145 0.0289 mg/kg 50 ND 30% $1,2-Dichloroethane$ ND 0.0145 0.0289 mg/kg 50 ND 30% $1,2-Dichloroptopane$ ND 0.0145 0.0289 mg/kg 50 ND 30% $1,3-Dichloroptopane$ ND 0.0289 0.0578 mg/kg 50 ND 30% $2,2-Dichloroptopene$ ND 0.0289 0.0578 mg/kg 50 ND 30% $cis-1,3-Dichloroptopene$ ND 0.0289 0.0578 mg/kg 50 ND 30% $cis-1,3-DichloroptopeneND0.02890.0578mg/kg50ND30\%cis-1,3-DichloroptopeneND0.02890.0578mg/kg50ND30\%cis-1,3-DichloroptopeneND0.02890.0578mg/kg50$	Dichlorodifluoromethane	ND	0.0578	0.116	mg/kg	50		ND				30%	
1,2-Dichloroethane (EDC)ND0.01450.0289mg/kg50ND30%1,1-DichloroetheneND0.01450.0289mg/kg50ND30%trans-1,2-DichloroetheneND0.01450.0289mg/kg50ND30%trans-1,2-DichloroetheneND0.01450.0289mg/kg50ND30%1,2-DichloropropaneND0.01450.0289mg/kg50ND30%1,3-DichloropropaneND0.02890.0578mg/kg50ND30%2,2-DichloropropaneND0.02890.0578mg/kg50ND30%1,1-DichloropropeneND0.02890.0578mg/kg50ND30%trans-1,3-DichloropropeneND0.02890.0578mg/kg50ND30%trans-1,3-DichloropropeneND0.02890.0578mg/kg50ND30%trans-1,3-DichloropropeneND0.01450.0289mg/kg50ND30%trans-1,3-DichloropropeneND0.0578mg/kg50ND30%trans-1,3-DichloropropeneND0.02890.	1,1-Dichloroethane	ND	0.0145	0.0289	mg/kg	50		ND				30%	
1,1-Dichloroethene ND 0.0145 0.0289 mg/kg 50 ND 30% cis-1,2-Dichloroethene ND 0.0145 0.0289 mg/kg 50 ND 30% trans-1,2-Dichloroethene ND 0.0145 0.0289 mg/kg 50 ND 30% 1,2-Dichloropropane ND 0.0145 0.0289 mg/kg 50 ND 30% 2,2-Dichloropropane ND 0.0289 0.0578 mg/kg 50 ND 30% 1,1-Dichloropropane ND 0.0289 0.0578 mg/kg 50 ND 30% 1,1-Dichloropropene ND 0.0289 0.0578 mg/kg 50 ND 30% trans-1,3-Dichloropropene ND 0.0289 0.0578 mg/kg 50 ND 30% Ethylbenzene ND 0.	1,2-Dichloroethane (EDC)	ND	0.0145	0.0289	mg/kg	50		ND				30%	
cis-1,2-Dichloroethene ND 0.0145 0.0289 mg/kg 50 ND 30% trans-1,2-Dichloroethene ND 0.0145 0.0289 mg/kg 50 ND 30% 1,2-Dichloropropane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,3-Dichloropropane ND 0.0289 0.0578 mg/kg 50 ND 30% 2,2-Dichloropropane ND 0.0289 0.0578 mg/kg 50 ND 30% 1,1-Dichloropropene ND 0.0289 0.0578 mg/kg 50 ND 30% trans-1,3-Dichloropropene ND 0.0289 0.0578 mg/kg 50 ND 30% Ethylbenzene ND 0.0145 0.0289 mg/kg 50 ND 30% 2-Hexanone ND 0.0578 mg/kg 50 <td>1,1-Dichloroethene</td> <td>ND</td> <td>0.0145</td> <td>0.0289</td> <td>mg/kg</td> <td>50</td> <td></td> <td>ND</td> <td></td> <td></td> <td></td> <td>30%</td> <td></td>	1,1-Dichloroethene	ND	0.0145	0.0289	mg/kg	50		ND				30%	
trans-1,2-Dichloropthene ND 0.0145 0.0289 mg/kg 50 ND 30% 1,2-Dichloroptopane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,3-Dichloroptopane ND 0.0289 0.0578 mg/kg 50 ND 30% 2,2-Dichloroptopane ND 0.0289 0.0578 mg/kg 50 ND 30% 1,1-Dichloroptopene ND 0.0289 0.0578 mg/kg 50 ND 30% trans-1,3-Dichloroptopene ND 0.0289 0.0578 mg/kg 50 ND 30% Ethylbenzene ND 0.0145 0.0289 mg/kg 50 ND 30% Lexanhorobutadiene ND 0.0578 mg/kg 50 ND 30% 2-Hexanone ND <t< td=""><td>cis-1,2-Dichloroethene</td><td>ND</td><td>0.0145</td><td>0.0289</td><td>mg/kg</td><td>50</td><td></td><td>ND</td><td></td><td></td><td></td><td>30%</td><td></td></t<>	cis-1,2-Dichloroethene	ND	0.0145	0.0289	mg/kg	50		ND				30%	
1,2-Dichloropropane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,3-Dichloropropane ND 0.0289 0.0578 mg/kg 50 ND 30% 2,2-Dichloropropane ND 0.0289 0.0578 mg/kg 50 ND 30% 1,1-Dichloropropene ND 0.0289 0.0578 mg/kg 50 ND 30% trans-1,3-Dichloropropene ND 0.0289 0.0578 mg/kg 50 ND 30% Ethylbenzene ND 0.0289 0.0578 mg/kg 50 ND 30% Ethylbenzene ND 0.0145 0.0289 mg/kg 50 ND 30% Lescahlorobutadiene ND 0.578 ng/kg 50 ND 30% Lesporpyltoluene ND 0.0289 0	trans-1,2-Dichloroethene	ND	0.0145	0.0289	mg/kg	50		ND				30%	
1,3-Dichloropropane ND 0.0289 0.0578 mg/kg 50 ND 30% 2,2-Dichloropropane ND 0.0289 0.0578 mg/kg 50 ND 30% 1,1-Dichloropropene ND 0.0289 0.0578 mg/kg 50 ND 30% cis-1,3-Dichloropropene ND 0.0289 0.0578 mg/kg 50 ND 30% trans-1,3-Dichloropropene ND 0.0289 0.0578 mg/kg 50 ND 30% Ethylbenzene ND 0.0145 0.0289 mg/kg 50 ND 30% 2-Hexanone ND 0.578 0.578 mg/kg 50 ND 30% 4-Isopropylboluene ND 0.0289 0.578 mg/kg 50 ND 30% 4-Hethyl-2-pentanone (MiBK)	1,2-Dichloropropane	ND	0.0145	0.0289	mg/kg	50		ND				30%	
2,2-DichloropropaneND 0.0289 0.0578 mg/kg 50 $$ ND $$ $$ $$ 30% 1,1-DichloropropeneND 0.0289 0.0578 mg/kg 50 $$ ND $$ $$ 30% cis-1,3-DichloropropeneND 0.0289 0.0578 mg/kg 50 $$ ND $$ $$ 30% trans-1,3-DichloropropeneND 0.0289 0.0578 mg/kg 50 $$ ND $$ $$ 30% EthylbenzeneND 0.0145 0.0289 mg/kg 50 $$ ND $$ $$ 30% HexachlorobutadieneND 0.0578 0.116 mg/kg 50 $$ ND $$ $$ 30% 2-HexanoneND 0.578 0.578 mg/kg 50 $$ ND $$ $$ 30% IsopropylbenzeneND 0.0289 0.0578 mg/kg 50 $$ ND $$ $$ 30% 4-IsopropyltolueneND 0.2289 0.578 mg/kg 50 $$ ND $$ $$ 30% Methyler chlorideND 0.2289 0.578 mg/kg 50 $$ ND $$ $$ 30% 4-IsopropyltolueneND 0.2289 0.578 mg/kg 50 $$ ND $$ $$ 30% Methyl tert-butyl ether (MTBE)ND 0.2289 0.578 mg/kg 50 <t< td=""><td>1,3-Dichloropropane</td><td>ND</td><td>0.0289</td><td>0.0578</td><td>mg/kg</td><td>50</td><td></td><td>ND</td><td></td><td></td><td></td><td>30%</td><td></td></t<>	1,3-Dichloropropane	ND	0.0289	0.0578	mg/kg	50		ND				30%	
1,1-Dichloropropene ND 0.0289 0.0578 mg/kg 50 ND 30% cis-1,3-Dichloropropene ND 0.0289 0.0578 mg/kg 50 ND 30% trans-1,3-Dichloropropene ND 0.0289 0.0578 mg/kg 50 ND 30% Ethylbenzene ND 0.0145 0.0289 mg/kg 50 ND 30% Hexachlorobutadiene ND 0.0578 0.116 mg/kg 50 ND 30% 2-Hexanone ND 0.578 0.578 mg/kg 50 ND 30% Isopropylbenzene ND 0.0289 0.578 mg/kg 50 ND 30% 4-Isopropylboluene ND 0.289 0.578 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK)	2,2-Dichloropropane	ND	0.0289	0.0578	mg/kg	50		ND				30%	
cis-1,3-Dichloropropene ND 0.0289 0.0578 mg/kg 50 ND 30% trans-1,3-Dichloropropene ND 0.0289 0.0578 mg/kg 50 ND 30% Ethylbenzene ND 0.0145 0.0289 mg/kg 50 ND 30% Hexachlorobutadiene ND 0.0578 0.116 mg/kg 50 ND 30% 2-Hexanone ND 0.578 0.578 mg/kg 50 ND 30% 4-Isopropylbenzene ND 0.0289 0.0578 mg/kg 50 ND 30% 4-Isopropylboluene ND 0.289 0.578 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK) ND 0.289 0.578 mg/kg 50 ND 30% Naphthalene ND<	1,1-Dichloropropene	ND	0.0289	0.0578	mg/kg	50		ND				30%	
trans-1,3-Dichloropropene ND 0.0289 0.0578 mg/kg 50 ND 30% Ethylbenzene ND 0.0145 0.0289 mg/kg 50 ND 30% Hexachlorobutadiene ND 0.0578 0.116 mg/kg 50 ND 30% 2-Hexanone ND 0.578 0.578 mg/kg 50 ND 30% Isopropylbenzene ND 0.0289 0.0578 mg/kg 50 ND 30% 4-Isopropylbenzene ND 0.0289 0.0578 mg/kg 50 ND 30% 4-thyl-2-pentanone (MiBK) ND 0.289 0.578 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK) ND 0.289 0.578 mg/kg 50 ND 30% Naphthalene ND<	cis-1,3-Dichloropropene	ND	0.0289	0.0578	mg/kg	50		ND				30%	
Ethylbenzene ND 0.0145 0.0289 mg/kg 50 ND 30% Hexachlorobutadiene ND 0.0578 0.116 mg/kg 50 ND 30% 2-Hexanone ND 0.578 0.578 mg/kg 50 ND 30% Isopropylbenzene ND 0.0289 0.0578 mg/kg 50 ND 30% 4-Isopropylbenzene ND 0.0289 0.0578 mg/kg 50 ND 30% 4-Isopropylbunene ND 0.289 0.578 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK) ND 0.289 0.578 mg/kg 50 ND 30% Methyl tert-butyl ether (MTBE) ND 0.0289 0.0578 mg/kg 50 ND 30% Nphthalene ND	trans-1,3-Dichloropropene	ND	0.0289	0.0578	mg/kg	50		ND				30%	
Hexachlorobutadiene ND 0.0578 0.116 mg/kg 50 ND 30% 2-Hexanone ND 0.578 0.578 mg/kg 50 ND 30% Isopropylbenzene ND 0.0289 0.0578 mg/kg 50 ND 30% 4-Isopropylbenzene ND 0.0289 0.0578 mg/kg 50 ND 30% 4-Isopropylboluene ND 0.0289 0.0578 mg/kg 50 ND 30% Methylene chloride ND 0.289 0.578 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK) ND 0.289 0.578 mg/kg 50 ND 30% Maphtalene ND 0.173 0.173 mg/kg 50 ND 30% Styrene ND 0.0289<	Ethylbenzene	ND	0.0145	0.0289	mg/kg	50		ND				30%	
2-Hexanone ND 0.578 0.578 mg/kg 50 ND 30% Isopropylbenzene ND 0.0289 0.0578 mg/kg 50 ND 30% 4-Isopropylbuluene ND 0.0289 0.0578 mg/kg 50 ND 30% Methylene chloride ND 0.289 0.578 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK) ND 0.289 0.578 mg/kg 50 ND 30% Methyl tert-butyl ether (MTBE) ND 0.289 0.578 mg/kg 50 ND 30% Naphthalene ND 0.173 0.173 mg/kg 50 ND 30% Styrene ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1,1,2-Tetrachloroethane ND 0.0145 </td <td>Hexachlorobutadiene</td> <td>ND</td> <td>0.0578</td> <td>0.116</td> <td>mg/kg</td> <td>50</td> <td></td> <td>ND</td> <td></td> <td></td> <td></td> <td>30%</td> <td></td>	Hexachlorobutadiene	ND	0.0578	0.116	mg/kg	50		ND				30%	
Isopropylbenzene ND 0.0289 0.0578 mg/kg 50 ND 30% 4-Isopropyltoluene ND 0.0289 0.0578 mg/kg 50 ND 30% Methylene chloride ND 0.289 0.578 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK) ND 0.289 0.578 mg/kg 50 ND 30% Methyl tert-butyl ether (MTBE) ND 0.289 0.578 mg/kg 50 ND 30% Naphthalene ND 0.173 0.173 mg/kg 50 ND 30% Styrene ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1,1,2-Tetrachloroethane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1,2,2-Tetrachloroethane ND	2-Hexanone	ND	0.578	0.578	mg/kg	50		ND				30%	
4-Isopropyltoluene ND 0.0289 0.0578 mg/kg 50 ND 30% Methylene chloride ND 0.289 0.578 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK) ND 0.289 0.578 mg/kg 50 ND 30% Methyl tert-butyl ether (MTBE) ND 0.0289 0.0578 mg/kg 50 ND 30% Naphthalene ND 0.173 0.173 mg/kg 50 ND 30% NPropylbenzene ND 0.0145 0.0289 mg/kg 50 ND 30% Styrene ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1,2,2-Tetrachloroethane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1,2,2-Tetrachloroethane ND	Isopropylbenzene	ND	0.0289	0.0578	mg/kg	50		ND				30%	
Methylene chloride ND 0.289 0.578 mg/kg 50 ND 30% 4-Methyl-2-pentanone (MiBK) ND 0.289 0.578 mg/kg 50 ND 30% Methyl tert-butyl ether (MTBE) ND 0.0289 0.0578 mg/kg 50 ND 30% Naphthalene ND 0.173 0.173 mg/kg 50 ND 30% n-Propylbenzene ND 0.0145 0.0289 mg/kg 50 ND 30% Styrene ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1,1,2-Tetrachloroethane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1,2,2-Tetrachloroethane ND 0.0289 0.0578 mg/kg 50 ND	4-Isopropyltoluene	ND	0.0289	0.0578	mg/kg	50		ND				30%	
4-Methyl-2-pentanone (MiBK) ND 0.289 0.578 mg/kg 50 ND 30% Methyl tert-butyl ether (MTBE) ND 0.0289 0.0578 mg/kg 50 ND 30% Naphthalene ND 0.173 0.173 mg/kg 50 ND 30% n-Propylbenzene ND 0.0145 0.0289 mg/kg 50 ND 30% Styrene ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1,2-Tetrachloroethane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1,2-Tetrachloroethane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1,2-Tetrachloroethane ND 0.0289 0.0578 mg/kg 50 ND 30% 1,1,2,2-Tetrachloroethane ND <td< td=""><td>Methylene chloride</td><td>ND</td><td>0.289</td><td>0.578</td><td>mg/kg</td><td>50</td><td></td><td>ND</td><td></td><td></td><td></td><td>30%</td><td></td></td<>	Methylene chloride	ND	0.289	0.578	mg/kg	50		ND				30%	
Methyl tert-butyl ether (MTBE) ND 0.0289 0.0578 mg/kg 50 ND 30% Naphthalene ND 0.173 0.173 mg/kg 50 ND 30% n-Propylbenzene ND 0.0145 0.0289 mg/kg 50 ND 30% Styrene ND 0.0289 0.0578 mg/kg 50 ND 30% 1,1,1,2-Tetrachloroethane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1,2,2-Tetrachloroethane ND 0.0289 0.0578 mg/kg 50 ND 30% 1,1,2,2-Tetrachloroethane ND 0.0289 0.0578 mg/kg 50 ND 30%	4-Methyl-2-pentanone (MiBK)	ND	0.289	0.578	mg/kg	50		ND				30%	
Naphthalene ND 0.173 0.173 mg/kg 50 ND 30% n-Propylbenzene ND 0.0145 0.0289 mg/kg 50 ND 30% Styrene ND 0.0289 0.0578 mg/kg 50 ND 30% 1,1,1,2-Tetrachloroethane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1,2-Tetrachloroethane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1,2-Tetrachloroethane ND 0.0289 0.0578 mg/kg 50 ND 30%	Methyl tert-butyl ether (MTBE)	ND	0.0289	0.0578	mg/kg	50		ND				30%	
n-Propylbenzene ND 0.0145 0.0289 mg/kg 50 ND 30% Styrene ND 0.0289 0.0578 mg/kg 50 ND 30% 1,1,1,2-Tetrachloroethane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1.2.2-Tetrachloroethane ND 0.0289 0.0578 mg/kg 50 ND 30%	Naphthalene	ND	0.173	0.173	mg/kg	50		ND				30%	R-0
ND 0.0289 0.0578 mg/kg 50 ND 30% 1,1,2.7-Etrachloroethane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1.2.2-Tetrachloroethane ND 0.0289 0.0578 mg/kg 50 ND 30%	n-Propylbenzene	ND	0.0145	0.0289	mg/kg	50		ND				30%	
1,1,2-Tetrachloroethane ND 0.0145 0.0289 mg/kg 50 ND 30% 1,1,2-2-Tetrachloroethane ND 0.0289 0.0578 mg/kg 50 ND 30%	Styrene	ND	0.0289	0.0578	mg/kg	50		ND				30%	
1.1.2.2-Tetrachloroethane ND 0.0289 0.0578 mg/kg 50 ND 30%	1,1,1,2-Tetrachloroethane	ND	0.0145	0.0289	mg/kg	50		ND				30%	
	1,1,2,2-Tetrachloroethane	ND	0.0289	0.0578	mg/kg	50		ND				30%	

Apex Laboratories



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

Project Manager: Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

		١	/olatile Org	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0903 - EPA 5035A							Soi	I				
Duplicate (23A0903-DUP2)			Prepared	: 01/24/23	17:26 Ana	yzed: 01/25	/23 17:00					V-15
QC Source Sample: Non-SDG (A3	A0822-01)											
Tetrachloroethene (PCE)	ND	0.0145	0.0289	mg/kg	50		ND				30%	
Toluene	ND	0.0289	0.0578	mg/kg	50		ND				30%	
1,2,3-Trichlorobenzene	ND	0.145	0.289	mg/kg	50		ND				30%	
1,2,4-Trichlorobenzene	ND	0.145	0.289	mg/kg	50		ND				30%	
1,1,1-Trichloroethane	ND	0.0145	0.0289	mg/kg	50		ND				30%	
1,1,2-Trichloroethane	ND	0.0145	0.0289	mg/kg	50		ND				30%	
Trichloroethene (TCE)	ND	0.0145	0.0289	mg/kg	50		ND				30%	
Trichlorofluoromethane	ND	0.0578	0.116	mg/kg	50		ND				30%	
1,2,3-Trichloropropane	ND	0.0289	0.0578	mg/kg	50		ND				30%	
1,2,4-Trimethylbenzene	ND	0.0289	0.0578	mg/kg	50		ND				30%	
1,3,5-Trimethylbenzene	0.405	0.0289	0.0578	mg/kg	50		0.410			1	30%	
Vinyl chloride	ND	0.0145	0.0289	mg/kg	50		ND				30%	
m,p-Xylene	ND	0.0289	0.0578	mg/kg	50		ND				30%	
o-Xylene	0.0231	0.0145	0.0289	mg/kg	50		0.0226			3	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 104 %	Limits: 80	-120 %	Dilt	ution: 1x					
Toluene-d8 (Surr)			95 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			98 %	79	-120 %		"					
Matrix Spike (23A0903-MS1)			Prepared	: 01/24/23	12:20 Ana	yzed: 01/25	/23 18:17					
QC Source Sample: Non-SDG (A3	A0808-01)											
5035A/8260D												
Acetone	2.05	0.535	1.07	mg/kg	50	2.14	ND	96	36-164%			
Acrylonitrile	1.05	0.0535	0.107	mg/kg	50	1.07	ND	98	65-134%			
Benzene	1.16	0.00535	0.0107	mg/kg	50	1.07	ND	108	77-121%			
Bromobenzene	1.09	0.0134	0.0267	mg/kg	50	1.07	ND	102	78-121%			
Bromochloromethane	1.17	0.0267	0.0535	mg/kg	50	1.07	ND	109	78-125%			
Bromodichloromethane	1.18	0.0267	0.0535	mg/kg	50	1.07	ND	111	75-127%			
Bromoform	1.08	0.0535	0.107	mg/kg	50	1.07	ND	101	67-132%			
Bromomethane	2.27	0.535	0.535	mg/kg	50	1.07	ND	212	53-143%			Q-54
2-Butanone (MEK)	1.90	0.267	0.535	mg/kg	50	2.14	ND	89	51-148%			
n-Butylbenzene	1.02	0.0267	0.0535	mg/kg	50	1.07	ND	95	70-128%			
sec-Butylbenzene	1.07	0.0267	0.0535	mg/kg	50	1.07	ND	100	73-126%			
tert-Butylbenzene	0.994	0.0267	0.0535	mg/kg	50	1.07	ND	93	73-125%			

Apex Laboratories



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

Project Manager: Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

		\ \	Volatile Org	janic Col	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0903 - EPA 5035A							So	il				
Matrix Spike (23A0903-MS1)			Prepared	01/24/23	2:20 Anal	yzed: 01/25	/23 18:17					
QC Source Sample: Non-SDG (A3	A0808-01)											
Carbon disulfide	1.13	0.267	0.535	mg/kg	50	1.07	ND	105	63-132%			
Carbon tetrachloride	1.23	0.0267	0.0535	mg/kg	50	1.07	ND	115	70-135%			
Chlorobenzene	1.11	0.0134	0.0267	mg/kg	50	1.07	ND	104	79-120%			
Chloroethane	1.51	0.267	0.535	mg/kg	50	1.07	ND	141	59-139%			Q-54
Chloroform	1.22	0.0267	0.0535	mg/kg	50	1.07	ND	114	78-123%			
Chloromethane	0.979	0.134	0.267	mg/kg	50	1.07	ND	92	50-136%			
2-Chlorotoluene	1.04	0.0267	0.0535	mg/kg	50	1.07	ND	98	75-122%			
4-Chlorotoluene	1.02	0.0267	0.0535	mg/kg	50	1.07	ND	96	72-124%			
Dibromochloromethane	1.07	0.0535	0.107	mg/kg	50	1.07	ND	100	74-126%			
1,2-Dibromo-3-chloropropane	0.975	0.134	0.267	mg/kg	50	1.07	ND	91	61-132%			
1,2-Dibromoethane (EDB)	1.12	0.0267	0.0535	mg/kg	50	1.07	ND	105	78-122%			
Dibromomethane	1.21	0.0267	0.0535	mg/kg	50	1.07	ND	113	78-125%			
1,2-Dichlorobenzene	1.05	0.0134	0.0267	mg/kg	50	1.07	ND	98	78-121%			
1,3-Dichlorobenzene	1.08	0.0134	0.0267	mg/kg	50	1.07	ND	101	77-121%			
1,4-Dichlorobenzene	1.05	0.0134	0.0267	mg/kg	50	1.07	ND	98	75-120%			
Dichlorodifluoromethane	1.04	0.0535	0.107	mg/kg	50	1.07	ND	97	29-149%			
1,1-Dichloroethane	1.23	0.0134	0.0267	mg/kg	50	1.07	ND	115	76-125%			
1,2-Dichloroethane (EDC)	1.18	0.0134	0.0267	mg/kg	50	1.07	ND	111	73-128%			
1,1-Dichloroethene	1.26	0.0134	0.0267	mg/kg	50	1.07	ND	117	70-131%			
cis-1,2-Dichloroethene	1.18	0.0134	0.0267	mg/kg	50	1.07	ND	110	77-123%			
trans-1,2-Dichloroethene	1.19	0.0134	0.0267	mg/kg	50	1.07	ND	111	74-125%			
1,2-Dichloropropane	1.18	0.0134	0.0267	mg/kg	50	1.07	ND	110	76-123%			
1,3-Dichloropropane	1.06	0.0267	0.0535	mg/kg	50	1.07	ND	99	77-121%			
2,2-Dichloropropane	1.15	0.0267	0.0535	mg/kg	50	1.07	ND	108	67-133%			
1,1-Dichloropropene	1.13	0.0267	0.0535	mg/kg	50	1.07	ND	106	76-125%			
cis-1,3-Dichloropropene	1.02	0.0267	0.0535	mg/kg	50	1.07	ND	96	74-126%			
trans-1,3-Dichloropropene	1.10	0.0267	0.0535	mg/kg	50	1.07	ND	103	71-130%			
Ethylbenzene	1.09	0.0134	0.0267	mg/kg	50	1.07	ND	102	76-122%			
Hexachlorobutadiene	1.19	0.0535	0.107	mg/kg	50	1.07	ND	112	61-135%			
2-Hexanone	1.73	0.535	0.535	mg/kg	50	2.14	ND	81	53-145%			Q-54
Isopropylbenzene	1.03	0.0267	0.0535	mg/kg	50	1.07	ND	97	68-134%			
4-Isopropyltoluene	1.04	0.0267	0.0535	mg/kg	50	1.07	ND	97	73-127%			
Methylene chloride	1.12	0.267	0.535	mg/kg	50	1.07	ND	104	70-128%			

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

Project Manager: Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

			Volatile Or	ganic Co	mpounds	by EPA 8	260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0903 - EPA 5035A							So	il				
Matrix Spike (23A0903-MS1)			Prepared	: 01/24/23	12:20 Ana	lyzed: 01/25/	/23 18:17					
OC Source Sample: Non-SDG (A3A	<u> 10808-01)</u>											
4-Methyl-2-pentanone (MiBK)	1.89	0.267	0.535	mg/kg	50	2.14	ND	88	65-135%			
Methyl tert-butyl ether (MTBE)	1.07	0.0267	0.0535	mg/kg	50	1.07	ND	100	73-125%			
Naphthalene	0.978	0.0535	0.107	mg/kg	50	1.07	ND	91	62-129%			
n-Propylbenzene	1.06	0.0134	0.0267	mg/kg	50	1.07	ND	99	73-125%			
Styrene	0.992	0.0267	0.0535	mg/kg	50	1.07	ND	93	76-124%			
1,1,1,2-Tetrachloroethane	1.17	0.0134	0.0267	mg/kg	50	1.07	ND	109	78-125%			
1,1,2,2-Tetrachloroethane	1.01	0.0267	0.0535	mg/kg	50	1.07	ND	95	70-124%			
Tetrachloroethene (PCE)	1.21	0.0134	0.0267	mg/kg	50	1.07	ND	113	73-128%			
Toluene	1.08	0.0267	0.0535	mg/kg	50	1.07	ND	101	77-121%			
1,2,3-Trichlorobenzene	1.06	0.134	0.267	mg/kg	50	1.07	ND	99	66-130%			
1,2,4-Trichlorobenzene	1.00	0.134	0.267	mg/kg	50	1.07	ND	93	67-129%			
1,1,1-Trichloroethane	1.23	0.0134	0.0267	mg/kg	50	1.07	ND	115	73-130%			
1,1,2-Trichloroethane	1.09	0.0134	0.0267	mg/kg	50	1.07	ND	102	78-121%			
Trichloroethene (TCE)	1.26	0.0134	0.0267	mg/kg	50	1.07	ND	118	77-123%			
Trichlorofluoromethane	1.63	0.0535	0.107	mg/kg	50	1.07	ND	152	62-140%			Q-(
1,2,3-Trichloropropane	1.03	0.0267	0.0535	mg/kg	50	1.07	ND	97	73-125%			
1,2,4-Trimethylbenzene	1.09	0.0267	0.0535	mg/kg	50	1.07	ND	102	75-123%			
1,3,5-Trimethylbenzene	1.11	0.0267	0.0535	mg/kg	50	1.07	ND	104	73-124%			
Vinyl chloride	1.69	0.0134	0.0267	mg/kg	50	1.07	ND	158	56-135%			Q-54
m,p-Xylene	2.19	0.0267	0.0535	mg/kg	50	2.14	ND	102	77-124%			
o-Xylene	1.01	0.0134	0.0267	mg/kg	50	1.07	ND	95	77-123%			
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 103 %	Limits: 80	-120 %	Dilu	ution: 1x					
Toluene-d8 (Surr)			97 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			97 %	79	-120 %		"					

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-T-50 DNAPL Project Number: 000029-02.84 T-(01.001K)

Project Manager: Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

			volatile Org	ganic Co	mpounas	DY EPA 8	5260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1004 - EPA 5035A							Soi	I				
Blank (23A1004-BLK1)			Prepared	: 01/27/23 (08:00 Ana	lyzed: 01/27	/23 12:37					
5035A/8260D												
Acetone	ND	0.500	1.00	mg/kg	50							
Acrylonitrile	ND	0.0500	0.100	mg/kg	50							
Benzene	ND	0.00500	0.0100	mg/kg	50							
Bromobenzene	ND	0.0125	0.0250	mg/kg	50							
Bromochloromethane	ND	0.0250	0.0500	mg/kg	50							
Bromodichloromethane	ND	0.0250	0.0500	mg/kg	50							
Bromoform	ND	0.0500	0.100	mg/kg	50							
Bromomethane	ND	0.500	0.500	mg/kg	50							
2-Butanone (MEK)	ND	0.250	0.500	mg/kg	50							
n-Butylbenzene	ND	0.0250	0.0500	mg/kg	50							
sec-Butylbenzene	ND	0.0250	0.0500	mg/kg	50							
tert-Butylbenzene	ND	0.0250	0.0500	mg/kg	50							
Carbon disulfide	ND	0.250	0.500	mg/kg	50							
Carbon tetrachloride	ND	0.0250	0.0500	mg/kg	50							
Chlorobenzene	ND	0.0125	0.0250	mg/kg	50							
Chloroethane	ND	0.250	0.500	mg/kg	50							
Chloroform	ND	0.0250	0.0500	mg/kg	50							
Chloromethane	ND	0.125	0.250	mg/kg	50							
2-Chlorotoluene	ND	0.0250	0.0500	mg/kg	50							
4-Chlorotoluene	ND	0.0250	0.0500	mg/kg	50							
Dibromochloromethane	ND	0.0500	0.100	mg/kg	50							
1,2-Dibromo-3-chloropropane	ND	0.125	0.250	mg/kg	50							
1,2-Dibromoethane (EDB)	ND	0.0250	0.0500	mg/kg	50							
Dibromomethane	ND	0.0250	0.0500	mg/kg	50							
1,2-Dichlorobenzene	ND	0.0125	0.0250	mg/kg	50							
1.3-Dichlorobenzene	ND	0.0125	0.0250	mg/kg	50							
1.4-Dichlorobenzene	ND	0.0125	0.0250	mg/kg	50							
Dichlorodifluoromethane	ND	0.0500	0.100	mg/kg	50							
1,1-Dichloroethane	ND	0.0125	0.0250	mg/kg	50							
1.2-Dichloroethane (EDC)	ND	0.0125	0.0250	mg/kg	50							
1.1-Dichloroethene	ND	0.0125	0.0250	mg/kg	50							
cis-1.2-Dichloroethene	ND	0.0125	0.0250	mg/kg	50							
trans-1,2-Dichloroethene	ND	0.0125	0.0250	mg/kg	50							
				-								

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-T-50 DNAPL

Project Number: 000029-02.84 T-(01.001K) Project Manager: Ben Uhl <u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1004 - EPA 5035A							Soi					
Blank (23A1004-BLK1)			Prepared	01/27/23 (08:00 Anal	yzed: 01/27/	23 12:37					
1,2-Dichloropropane	ND	0.0125	0.0250	mg/kg	50							
1,3-Dichloropropane	ND	0.0250	0.0500	mg/kg	50							
2,2-Dichloropropane	ND	0.0250	0.0500	mg/kg	50							
1,1-Dichloropropene	ND	0.0250	0.0500	mg/kg	50							
cis-1,3-Dichloropropene	ND	0.0250	0.0500	mg/kg	50							
trans-1,3-Dichloropropene	ND	0.0250	0.0500	mg/kg	50							
Ethylbenzene	ND	0.0125	0.0250	mg/kg	50							
Hexachlorobutadiene	ND	0.0500	0.100	mg/kg	50							
2-Hexanone	ND	0.500	0.500	mg/kg	50							
Isopropylbenzene	ND	0.0250	0.0500	mg/kg	50							
4-Isopropyltoluene	ND	0.0250	0.0500	mg/kg	50							
Methylene chloride	ND	0.250	0.500	mg/kg	50							
4-Methyl-2-pentanone (MiBK)	ND	0.250	0.500	mg/kg	50							
Methyl tert-butyl ether (MTBE)	ND	0.0250	0.0500	mg/kg	50							
Naphthalene	ND	0.0500	0.100	mg/kg	50							
n-Propylbenzene	ND	0.0125	0.0250	mg/kg	50							
Styrene	ND	0.0250	0.0500	mg/kg	50							
1,1,1,2-Tetrachloroethane	ND	0.0125	0.0250	mg/kg	50							
1,1,2,2-Tetrachloroethane	ND	0.0250	0.0500	mg/kg	50							
Tetrachloroethene (PCE)	ND	0.0125	0.0250	mg/kg	50							
Toluene	ND	0.0250	0.0500	mg/kg	50							
1,2,3-Trichlorobenzene	ND	0.125	0.250	mg/kg	50							
1,2,4-Trichlorobenzene	ND	0.125	0.250	mg/kg	50							
1,1,1-Trichloroethane	ND	0.0125	0.0250	mg/kg	50							
1,1,2-Trichloroethane	ND	0.0125	0.0250	mg/kg	50							
Trichloroethene (TCE)	ND	0.0125	0.0250	mg/kg	50							
Trichlorofluoromethane	ND	0.0500	0.100	mg/kg	50							
1,2,3-Trichloropropane	ND	0.0250	0.0500	mg/kg	50							
1,2,4-Trimethylbenzene	ND	0.0250	0.0500	mg/kg	50							
1,3,5-Trimethylbenzene	ND	0.0250	0.0500	mg/kg	50							
Vinyl chloride	ND	0.0125	0.0250	mg/kg	50							
m,p-Xylene	ND	0.0250	0.0500	mg/kg	50							
o-Xvlene	ND	0.0125	0.0250	mo/ko	50							

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125 Portland, OR 97219
 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

Project Manager: Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

			Volatile Or	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1004 - EPA 5035A							So	il				
Blank (23A1004-BLK1)			Prepared	l: 01/27/23 (08:00 Anal	lyzed: 01/27	/23 12:37					
Surr: Toluene-d8 (Surr)		Reco	very: 98 %	Limits: 80)-120 %	Dili	ution: 1x					
4-Bromofluorobenzene (Surr)			100 %	79	-120 %		"					
LCS (23A1004-BS1)			Prepared	l: 01/27/23	08:00 Anal	lyzed: 01/27	/23 11:46					
5035A/8260D												
Acetone	1.89	0.500	1.00	mg/kg	50	2.00		95	80-120%			
Acrylonitrile	0.989	0.0500	0.100	mg/kg	50	1.00		99	80-120%			
Benzene	1.07	0.00500	0.0100	mg/kg	50	1.00		107	80-120%			
Bromobenzene	0.964	0.0125	0.0250	mg/kg	50	1.00		96	80-120%			
Bromochloromethane	1.14	0.0250	0.0500	mg/kg	50	1.00		114	80-120%			
Bromodichloromethane	1.10	0.0250	0.0500	mg/kg	50	1.00		110	80-120%			
Bromoform	0.980	0.0500	0.100	mg/kg	50	1.00		98	80-120%			
Bromomethane	2.16	0.500	0.500	mg/kg	50	1.00		216	80-120%			Q-5
2-Butanone (MEK)	1.90	0.250	0.500	mg/kg	50	2.00		95	80-120%			
n-Butylbenzene	0.869	0.0250	0.0500	mg/kg	50	1.00		87	80-120%			
sec-Butylbenzene	0.926	0.0250	0.0500	mg/kg	50	1.00		93	80-120%			
tert-Butylbenzene	0.864	0.0250	0.0500	mg/kg	50	1.00		86	80-120%			
Carbon disulfide	1.01	0.250	0.500	mg/kg	50	1.00		101	80-120%			
Carbon tetrachloride	1.09	0.0250	0.0500	mg/kg	50	1.00		109	80-120%			
Chlorobenzene	1.01	0.0125	0.0250	mg/kg	50	1.00		101	80-120%			
Chloroethane	1.42	0.250	0.500	mg/kg	50	1.00		142	80-120%			Q-5
Chloroform	1.14	0.0250	0.0500	mg/kg	50	1.00		114	80-120%			
Chloromethane	0.928	0.125	0.250	mg/kg	50	1.00		93	80-120%			
2-Chlorotoluene	0.922	0.0250	0.0500	mg/kg	50	1.00		92	80-120%			
4-Chlorotoluene	0.916	0.0250	0.0500	mg/kg	50	1.00		92	80-120%			
Dibromochloromethane	0.969	0.0500	0.100	mg/kg	50	1.00		97	80-120%			
1,2-Dibromo-3-chloropropane	0.815	0.125	0.250	mg/kg	50	1.00		81	80-120%			
1,2-Dibromoethane (EDB)	1.01	0.0250	0.0500	mg/kg	50	1.00		101	80-120%			
Dibromomethane	1.15	0.0250	0.0500	mg/kg	50	1.00		115	80-120%			
1,2-Dichlorobenzene	0.965	0.0125	0.0250	mg/kg	50	1.00		96	80-120%			
1,3-Dichlorobenzene	0.966	0.0125	0.0250	mg/kg	50	1.00		97	80-120%			
1,4-Dichlorobenzene	0.946	0.0125	0.0250	mg/kg	50	1.00		95	80-120%			
Dichlorodifluoromethane	0.902	0.0500	0.100	mg/kg	50	1.00		90	80-120%			
1,1-Dichloroethane	1.16	0.0125	0.0250	mg/kg	50	1.00		116	80-120%			

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-T-50 DNAPL

Project Number: 000029-02.84 T-(01.001K) Project Manager: Ben Uhl <u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

			/olatile Org	ganic Cor	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1004 - EPA 5035A							Soi	il				
LCS (23A1004-BS1)			Prepared:	: 01/27/23 0)8:00 Anal	yzed: 01/27/	/23 11:46					
1,2-Dichloroethane (EDC)	1.15	0.0125	0.0250	mg/kg	50	1.00		115	80-120%			
1,1-Dichloroethene	1.14	0.0125	0.0250	mg/kg	50	1.00		114	80-120%			
cis-1,2-Dichloroethene	1.10	0.0125	0.0250	mg/kg	50	1.00		110	80-120%			
trans-1,2-Dichloroethene	1.12	0.0125	0.0250	mg/kg	50	1.00		112	80-120%			
1,2-Dichloropropane	1.10	0.0125	0.0250	mg/kg	50	1.00		110	80-120%			
1,3-Dichloropropane	0.973	0.0250	0.0500	mg/kg	50	1.00		97	80-120%			
2,2-Dichloropropane	1.08	0.0250	0.0500	mg/kg	50	1.00		108	80-120%			
1,1-Dichloropropene	1.01	0.0250	0.0500	mg/kg	50	1.00		101	80-120%			
cis-1,3-Dichloropropene	0.916	0.0250	0.0500	mg/kg	50	1.00		92	80-120%			
trans-1,3-Dichloropropene	1.04	0.0250	0.0500	mg/kg	50	1.00		104	80-120%			
Ethylbenzene	0.990	0.0125	0.0250	mg/kg	50	1.00		99	80-120%			
Hexachlorobutadiene	0.868	0.0500	0.100	mg/kg	50	1.00		87	80-120%			
2-Hexanone	1.59	0.500	0.500	mg/kg	50	2.00		79	80-120%			Q-:
Isopropylbenzene	0.900	0.0250	0.0500	mg/kg	50	1.00		90	80-120%			
4-Isopropyltoluene	0.890	0.0250	0.0500	mg/kg	50	1.00		89	80-120%			
Methylene chloride	1.07	0.250	0.500	mg/kg	50	1.00		107	80-120%			
4-Methyl-2-pentanone (MiBK)	1.77	0.250	0.500	mg/kg	50	2.00		88	80-120%			
Methyl tert-butyl ether (MTBE)	0.998	0.0250	0.0500	mg/kg	50	1.00		100	80-120%			
Naphthalene	0.817	0.0500	0.100	mg/kg	50	1.00		82	80-120%			
n-Propylbenzene	0.946	0.0125	0.0250	mg/kg	50	1.00		95	80-120%			
Styrene	0.878	0.0250	0.0500	mg/kg	50	1.00		88	80-120%			
1,1,1,2-Tetrachloroethane	1.05	0.0125	0.0250	mg/kg	50	1.00		105	80-120%			
1,1,2,2-Tetrachloroethane	0.942	0.0250	0.0500	mg/kg	50	1.00		94	80-120%			
Tetrachloroethene (PCE)	1.06	0.0125	0.0250	mg/kg	50	1.00		106	80-120%			
Toluene	0.992	0.0250	0.0500	mg/kg	50	1.00		99	80-120%			
1,2,3-Trichlorobenzene	0.928	0.125	0.250	mg/kg	50	1.00		93	80-120%			
1,2,4-Trichlorobenzene	0.831	0.125	0.250	mg/kg	50	1.00		83	80-120%			
1,1,1-Trichloroethane	1.12	0.0125	0.0250	mg/kg	50	1.00		112	80-120%			
1,1,2-Trichloroethane	1.01	0.0125	0.0250	mg/kg	50	1.00		101	80-120%			
Trichloroethene (TCE)	1.15	0.0125	0.0250	mg/kg	50	1.00		115	80-120%			
Trichlorofluoromethane	1.46	0.0500	0.100	mg/kg	50	1.00		146	80-120%			Q-:
1,2,3-Trichloropropane	0.962	0.0250	0.0500	mg/kg	50	1.00		96	80-120%			
1,2,4-Trimethylbenzene	0.966	0.0250	0.0500	mg/kg	50	1.00		97	80-120%			
1,3,5-Trimethvlbenzene	0.979	0.0250	0.0500	mg/ko	50	1.00		98	80-120%			
-,-,-	0.717	5.0200			20	1.00			00 120/0			

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125 Portland, OR 97219

Project: Gasco-T-50 DNAPL

Project Number: 000029-02.84 T-(01.001K) Project Manager: Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D													
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23A1004 - EPA 5035A							Soi	il					
LCS (23A1004-BS1)			Preparec	l: 01/27/23 ()8:00 Anal	yzed: 01/27	/23 11:46						
Vinyl chloride	1.66	0.0125	0.0250	mg/kg	50	1.00		166	80-120%			Q-5	
m,p-Xylene	2.00	0.0250	0.0500	mg/kg	50	2.00		100	80-120%				
o-Xylene	0.896	0.0125	0.0250	mg/kg	50	1.00		90	80-120%				
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 104 %	Limits: 80	-120 %	Dilu	ution: 1x						
Toluene-d8 (Surr)			98 %	80-	-120 %		"						
4-Bromofluorobenzene (Surr)			95 %	79-	-120 %		"						
Duplicate (23A1004-DUP1)			Preparec	l: 01/25/23 1	1:05 Anal	yzed: 01/27/	23 13:28						
OC Source Sample: Non-SDG (A3.	A0906-01)												
Acetone	ND	0.526	1.05	mg/kg	50		ND				30%		
Acrylonitrile	ND	0.0526	0.105	mg/kg	50		ND				30%		
Benzene	ND	0.00526	0.0105	mg/kg	50		ND				30%		
Bromobenzene	ND	0.0132	0.0263	mg/kg	50		ND				30%		
Bromochloromethane	ND	0.0263	0.0526	mg/kg	50		ND				30%		
Bromodichloromethane	ND	0.0263	0.0526	mg/kg	50		ND				30%		
Bromoform	ND	0.0526	0.105	mg/kg	50		ND				30%		
Bromomethane	ND	0.526	0.526	mg/kg	50		ND				30%		
2-Butanone (MEK)	ND	0.263	0.526	mg/kg	50		ND				30%		
n-Butylbenzene	ND	0.0263	0.0526	mg/kg	50		ND				30%		
sec-Butylbenzene	ND	0.0263	0.0526	mg/kg	50		ND				30%		
tert-Butylbenzene	ND	0.0263	0.0526	mg/kg	50		ND				30%		
Carbon disulfide	ND	0.263	0.526	mg/kg	50		ND				30%		
Carbon tetrachloride	ND	0.0263	0.0526	mg/kg	50		ND				30%		
Chlorobenzene	ND	0.0132	0.0263	mg/kg	50		ND				30%		
Chloroethane	ND	0.263	0.526	mg/kg	50		ND				30%		
Chloroform	ND	0.0263	0.0526	mg/kg	50		ND				30%		
Chloromethane	ND	0.132	0.263	mg/kg	50		ND				30%		
2-Chlorotoluene	ND	0.0263	0.0526	mg/kg	50		ND				30%		
4-Chlorotoluene	ND	0.0263	0.0526	mg/kg	50		ND				30%		
Dibromochloromethane	ND	0.0526	0.105	mg/kg	50		ND				30%		
1,2-Dibromo-3-chloropropane	ND	0.132	0.263	mg/kg	50		ND				30%		
1,2-Dibromoethane (EDB)	ND	0.0263	0.0526	mg/kg	50		ND				30%		
Dibromomethane	ND	0.0263	0.0526	mg/kg	50		ND				30%		
1,2-Dichlorobenzene	ND	0.0132	0.0263	mg/kg	50		ND				30%		

Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

Project Manager: Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

			Volatile Org	ganic Co	mpounds	by EPA 8	260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1004 - EPA 5035A							Soi	1				
Duplicate (23A1004-DUP1)			Prepared	: 01/25/23 1	1:05 Anal	yzed: 01/27	/23 13:28					
QC Source Sample: Non-SDG (A3	A0906-01)											
1,3-Dichlorobenzene	ND	0.0132	0.0263	mg/kg	50		ND				30%	
1,4-Dichlorobenzene	ND	0.0132	0.0263	mg/kg	50		ND				30%	
Dichlorodifluoromethane	ND	0.0526	0.105	mg/kg	50		ND				30%	
1,1-Dichloroethane	ND	0.0132	0.0263	mg/kg	50		ND				30%	
1,2-Dichloroethane (EDC)	ND	0.0132	0.0263	mg/kg	50		ND				30%	
1,1-Dichloroethene	ND	0.0132	0.0263	mg/kg	50		ND				30%	
cis-1,2-Dichloroethene	ND	0.0132	0.0263	mg/kg	50		ND				30%	
trans-1,2-Dichloroethene	ND	0.0132	0.0263	mg/kg	50		ND				30%	
1,2-Dichloropropane	ND	0.0132	0.0263	mg/kg	50		ND				30%	
1,3-Dichloropropane	ND	0.0263	0.0526	mg/kg	50		ND				30%	
2,2-Dichloropropane	ND	0.0263	0.0526	mg/kg	50		ND				30%	
1,1-Dichloropropene	ND	0.0263	0.0526	mg/kg	50		ND				30%	
cis-1,3-Dichloropropene	ND	0.0263	0.0526	mg/kg	50		ND				30%	
trans-1,3-Dichloropropene	ND	0.0263	0.0526	mg/kg	50		ND				30%	
Ethylbenzene	ND	0.0132	0.0263	mg/kg	50		ND				30%	
Hexachlorobutadiene	ND	0.0526	0.105	mg/kg	50		ND				30%	
2-Hexanone	ND	0.526	0.526	mg/kg	50		ND				30%	
Isopropylbenzene	ND	0.0263	0.0526	mg/kg	50		ND				30%	
4-Isopropyltoluene	ND	0.0263	0.0526	mg/kg	50		ND				30%	
Methylene chloride	ND	0.263	0.526	mg/kg	50		ND				30%	
4-Methyl-2-pentanone (MiBK)	ND	0.263	0.526	mg/kg	50		ND				30%	
Methyl tert-butyl ether (MTBE)	ND	0.0263	0.0526	mg/kg	50		ND				30%	
Naphthalene	ND	0.0526	0.105	mg/kg	50		ND				30%	
n-Propylbenzene	ND	0.0132	0.0263	mg/kg	50		ND				30%	
Styrene	ND	0.0263	0.0526	mg/kg	50		ND				30%	
1,1,1,2-Tetrachloroethane	ND	0.0132	0.0263	mg/kg	50		ND				30%	
1,1,2,2-Tetrachloroethane	ND	0.0263	0.0526	mg/kg	50		ND				30%	
Tetrachloroethene (PCE)	0.0936	0.0132	0.0263	mg/kg	50		0.103			9	30%	
Toluene	ND	0.0263	0.0526	mg/kg	50		ND				30%	
1,2,3-Trichlorobenzene	ND	0.132	0.263	mg/kg	50		ND				30%	
1,2,4-Trichlorobenzene	ND	0.132	0.263	mg/kg	50		ND				30%	
1,1,1-Trichloroethane	ND	0.0132	0.0263	mg/kg	50		ND				30%	
1,1,2-Trichloroethane	ND	0.0132	0.0263	mg/kg	50		ND				30%	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: <u>Gasco-T-50 DNAPL</u>

Project Number: 000029-02.84 T-(01.001K) Project Manager: Ben Uhl <u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D													
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23A1004 - EPA 5035A							Soi	I					
Duplicate (23A1004-DUP1)			Preparec	1: 01/25/23	11:05 Ana	lyzed: 01/27	/23 13:28						
QC Source Sample: Non-SDG (A3	<u>A0906-01)</u>												
Trichloroethene (TCE)	ND	0.0132	0.0263	mg/kg	50		ND				30%		
Trichlorofluoromethane	ND	0.0526	0.105	mg/kg	50		ND				30%		
1,2,3-Trichloropropane	ND	0.0263	0.0526	mg/kg	50		ND				30%		
1,2,4-Trimethylbenzene	ND	0.0263	0.0526	mg/kg	50		ND				30%		
1,3,5-Trimethylbenzene	ND	0.0263	0.0526	mg/kg	50		ND				30%		
Vinyl chloride	ND	0.0132	0.0263	mg/kg	50		ND				30%		
m,p-Xylene	ND	0.0263	0.0526	mg/kg	50		ND				30%		
o-Xylene	ND	0.0132	0.0263	mg/kg	50		ND				30%		
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 106 %	Limits: 80)-120 %	Dili	ution: 1x						
Toluene-d8 (Surr)			98 %	80	-120 %		"						
4-Bromofluorobenzene (Surr)			97 %	79	-120 %		"						
QC Source Sample: Non-SDG (A3	<u>A0750-01)</u>												
<u>5035A/8260D</u>	• • •				-	• • • •							
Acetone	2.04	0.519	1.04	mg/kg	50	2.08	ND	98	36-164%				
Acrylonitrile	1.01	0.0519	0.104	mg/kg	50	1.04	ND	9/	65-134%				
Benzene	1.09	0.00519	0.0104	mg/kg	50	1.04	ND	105	77-121%				
Bromobenzene	1.01	0.0130	0.0260	mg/kg	50	1.04	ND	98	78-121%				
Bromochloromethane	1.10	0.0260	0.0519	mg/kg	50	1.04	ND	106	78-125%				
Bromodichloromethane	1.10	0.0260	0.0519	mg/kg	50	1.04	ND	106	/5-12/%				
Bromoform	0.984	0.0519	0.104	mg/kg	50	1.04	ND	95	67-132%			0.54	
Bromomethane	2.18	0.519	0.519	mg/kg	50	1.04	ND	210	53-143%			Q-54	
2-Butanone (MEK)	1.91	0.260	0.519	mg/kg	50	2.08	ND	92	51-148%				
n-Butylbenzene	1.26	0.0260	0.0519	mg/kg	50	1.04	0.157	106	70-128%				
sec-Butylbenzene	1.10	0.0260	0.0519	mg/kg	50	1.04	0.0519	101	73-126%				
tert-Butylbenzene	0.975	0.0260	0.0519	mg/kg	50	1.04	ND	94	/3-125%				
Carbon disulfide	1.02	0.260	0.519	mg/kg	50	1.04	ND	98	63-132%				
Carbon tetrachloride	1.13	0.0260	0.0519	mg/kg	50	1.04	ND	109	/0-135%				
Chlorobenzene	1.04	0.0130	0.0260	mg/kg	50	1.04	ND	100	79-120%				
Chloroethane	1.29	0.260	0.519	mg/kg	50	1.04	ND	124	59-139%			Q-54	
Chloroform	1.15	0.0260	0.0519	mg/kg	50	1.04	ND	111	78-123%				
Chloromethane	0.915	0.130	0.260	mg/kg	50	1.04	ND	88	50-136%				

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: <u>Gasco-T-50 DNAPL</u>

Project Number: 000029-02.84 T-(01.001K) Project Manager: Ben Uhl <u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D													
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23A1004 - EPA 5035A							Soi	il					
Matrix Spike (23A1004-MS1)			Prepared	01/20/23 (00:00 Anal	yzed: 01/27	/23 18:08						
QC Source Sample: Non-SDG (A3.	<u>A0750-01)</u>												
2-Chlorotoluene	1.03	0.0260	0.0519	mg/kg	50	1.04	ND	99	75-122%				
4-Chlorotoluene	0.958	0.0260	0.0519	mg/kg	50	1.04	ND	92	72-124%				
Dibromochloromethane	0.973	0.0519	0.104	mg/kg	50	1.04	ND	94	74-126%				
1,2-Dibromo-3-chloropropane	1.02	0.130	0.260	mg/kg	50	1.04	ND	98	61-132%				
1,2-Dibromoethane (EDB)	1.05	0.0260	0.0519	mg/kg	50	1.04	ND	101	78-122%				
Dibromomethane	1.14	0.0260	0.0519	mg/kg	50	1.04	ND	110	78-125%				
1,2-Dichlorobenzene	1.03	0.0130	0.0260	mg/kg	50	1.04	ND	99	78-121%				
1,3-Dichlorobenzene	1.03	0.0130	0.0260	mg/kg	50	1.04	ND	99	77-121%				
1,4-Dichlorobenzene	0.999	0.0130	0.0260	mg/kg	50	1.04	ND	96	75-120%				
Dichlorodifluoromethane	0.929	0.0519	0.104	mg/kg	50	1.04	ND	89	29-149%				
1,1-Dichloroethane	1.15	0.0130	0.0260	mg/kg	50	1.04	ND	111	76-125%				
1,2-Dichloroethane (EDC)	1.13	0.0130	0.0260	mg/kg	50	1.04	ND	109	73-128%				
1,1-Dichloroethene	1.15	0.0130	0.0260	mg/kg	50	1.04	ND	111	70-131%				
cis-1,2-Dichloroethene	1.10	0.0130	0.0260	mg/kg	50	1.04	ND	106	77-123%				
trans-1,2-Dichloroethene	1.13	0.0130	0.0260	mg/kg	50	1.04	ND	109	74-125%				
1,2-Dichloropropane	1.10	0.0130	0.0260	mg/kg	50	1.04	ND	106	76-123%				
1,3-Dichloropropane	0.992	0.0260	0.0519	mg/kg	50	1.04	ND	95	77-121%				
2,2-Dichloropropane	1.12	0.0260	0.0519	mg/kg	50	1.04	ND	107	67-133%				
1,1-Dichloropropene	1.06	0.0260	0.0519	mg/kg	50	1.04	ND	102	76-125%				
cis-1,3-Dichloropropene	0.972	0.0260	0.0519	mg/kg	50	1.04	ND	94	74-126%				
trans-1,3-Dichloropropene	1.03	0.0260	0.0519	mg/kg	50	1.04	ND	99	71-130%				
Ethylbenzene	1.12	0.0130	0.0260	mg/kg	50	1.04	0.0841	100	76-122%				
Hexachlorobutadiene	1.22	0.0519	0.104	mg/kg	50	1.04	ND	117	61-135%				
2-Hexanone	1.73	0.519	0.519	mg/kg	50	2.08	ND	83	53-145%			Q-54	
Isopropylbenzene	1.03	0.0260	0.0519	mg/kg	50	1.04	0.0348	96	68-134%				
4-Isopropyltoluene	1.07	0.0260	0.0519	mg/kg	50	1.04	0.0306	100	73-127%				
Methylene chloride	1.04	0.260	0.519	mg/kg	50	1.04	ND	100	70-128%				
4-Methyl-2-pentanone (MiBK)	1.84	0.260	0.519	mg/kg	50	2.08	ND	89	65-135%				
Methyl tert-butyl ether (MTBE)	1.01	0.0260	0.0519	mg/kg	50	1.04	ND	97	73-125%				
Naphthalene	2.23	0.0519	0.104	mg/kg	50	1.04	1.03	116	62-129%				
n-Propylbenzene	1.25	0.0130	0.0260	mg/kg	50	1.04	0.198	102	73-125%				
Styrene	0.941	0.0260	0.0519	mg/kg	50	1.04	ND	91	76-124%				
1,1,1,2-Tetrachloroethane	1.07	0.0130	0.0260	mg/kg	50	1.04	ND	103	78-125%				

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: <u>Gasco-T-50 DNAPL</u>

Project Number: 000029-02.84 T-(01.001K) Project Manager: Ben Uhl <u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

	Volatile Organic Compounds by EPA 8260D													
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes		
Batch 23A1004 - EPA 5035A							Soi	<u>ــــــــــــــــــــــــــــــــــــ</u>						
Matrix Spike (23A1004-MS1)			Prepared	: 01/20/23 (00:00 Anal	lyzed: 01/27/	/23 18:08							
QC Source Sample: Non-SDG (A3A	<u> (0750-01)</u>					,		,				,		
1,1,2,2-Tetrachloroethane	0.977	0.0260	0.0519	mg/kg	50	1.04	ND	94	70-124%					
Tetrachloroethene (PCE)	1.22	0.0130	0.0260	mg/kg	50	1.04	0.0935	108	73-128%					
Toluene	1.01	0.0260	0.0519	mg/kg	50	1.04	ND	98	77-121%					
1,2,3-Trichlorobenzene	1.07	0.130	0.260	mg/kg	50	1.04	ND	103	66-130%					
1,2,4-Trichlorobenzene	1.07	0.130	0.260	mg/kg	50	1.04	ND	103	67-129%					
1,1,1-Trichloroethane	1.14	0.0130	0.0260	mg/kg	50	1.04	ND	110	73-130%					
1,1,2-Trichloroethane	1.01	0.0130	0.0260	mg/kg	50	1.04	ND	98	78-121%					
Trichloroethene (TCE)	1.19	0.0130	0.0260	mg/kg	50	1.04	ND	115	77-123%					
Trichlorofluoromethane	1.34	0.0519	0.104	mg/kg	50	1.04	ND	129	62-140%			Q-5-		
1,2,3-Trichloropropane	0.994	0.0260	0.0519	mg/kg	50	1.04	ND	96	73-125%					
1,2,4-Trimethylbenzene	3.96	0.0260	0.0519	mg/kg	50	1.04	2.72	120	75-123%					
1,3,5-Trimethylbenzene	2.10	0.0260	0.0519	mg/kg	50	1.04	0.920	114	73-124%					
Vinyl chloride	1.61	0.0130	0.0260	mg/kg	50	1.04	ND	155	56-135%			Q-5-		
m,p-Xylene	2.55	0.0260	0.0519	mg/kg	50	2.08	0.381	104	77-124%					
o-Xylene	1.29	0.0130	0.0260	mg/kg	50	1.04	0.255	99	77-123%					
Surr: 1,4-Difluorobenzene (Surr)		Recove	ery: 103 %	Limits: 80	-120 %	Dilu	ıtion: 1x							
Toluene-d8 (Surr)			96 %	80-	-120 %		"							
4-Bromofluorobenzene (Surr)			98 %	79-	-120 %		"							

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-T-50 DNAPL

Project Number: 000029-02.84 T-(01.001K) Project Manager: Ben Uhl <u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

			Polychlor	inated Bi	phenyls	by EPA 80)82A					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1115 - EPA 3546							Liq	uid				
Blank (23A1115-BLK1)			Prepared	: 01/31/23	10:51 Ana	lyzed: 02/01	/23 14:52					C-07
EPA 8082A												
Aroclor 1016	ND	0.0250	0.0500	mg/kg	1							
Aroclor 1221	ND	0.0250	0.0500	mg/kg	1							
Aroclor 1232	ND	0.0250	0.0500	mg/kg	1							
Aroclor 1242	ND	0.0250	0.0500	mg/kg	1							
Aroclor 1248	ND	0.0250	0.0500	mg/kg	1							
Aroclor 1254	ND	0.0250	0.0500	mg/kg	1							
Aroclor 1260	ND	0.0250	0.0500	mg/kg	1							
Surr: Decachlorobiphenyl (Surr)		Reco	overy: 99%	Limits: 60	-125 %	Dilt	ution: 1x					
LCS (23A1115-BS1)			Prepared	: 01/31/23	10:51 Ana	lyzed: 02/01	/23 15:10					C-07
EPA 8082A			1									
Aroclor 1016	1.03	0.0250	0.0500	mg/kg	1	1.25		82	47-134%			
Aroclor 1260	1.13	0.0250	0.0500	mg/kg	1	1.25		90	53-140%			
Surr: Decachlorobiphenyl (Surr)		Reco	overy: 94 %	Limits: 60	-125 %	Dilt	ution: 1x					
Duplicate (23A1115-DUP1)			Prepared	: 01/31/23	10:51 Anal	lyzed: 02/01	/23 16:05					C-07
QC Source Sample: T-50-DNAPL-	01202023 ((A3A0810-01)										
EPA 8082A												
Aroclor 1016	ND	0.455	0.909	mg/kg	1		ND				30%	
Aroclor 1221	ND	0.455	0.909	mg/kg	1		ND				30%	
Aroclor 1232	ND	0.455	0.909	mg/kg	1		ND				30%	
Aroclor 1242	ND	0.455	0.909	mg/kg	1		ND				30%	
Aroclor 1248	ND	0.455	0.909	mg/kg	1		ND				30%	
Aroclor 1254	ND	0.455	0.909	mg/kg	1		ND				30%	
Aroclor 1260	ND	0.455	0.909	mg/kg	1		ND				30%	
Surr: Decachlorobiphenyl (Surr)		Reco	overy: 94 %	Limits: 60	-125 %	Dili	ution: 1x					
Matrix Spike (23A1115-MS1)			Prepared	: 01/31/23	10:51 Ana	lyzed: 02/01	/23 16:53					C-07
OC Source Sample: T-50-DNAPL-	01202023	(A3A0810-01)	-									
EPA 8082A												
Aroclor 1016	16.3	0.455	0.909	mg/kg	1	22.7	ND	72	47-134%			
Aroclor 1260	18.8	0.455	0.909	mg/kg	1	22.7	ND	83	53-140%			
					•	,						

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125 Portland, OR 97219

Project: Gasco-T-50 DNAPL Project Number: 000029-02.84 T-(01.001K)

Project Manager: Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

	Polychlorinated Biphenyls by EPA 8082A													
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes		
Batch 23A1115 - EPA 3546							Liqu	ıid						
Matrix Spike (23A1115-MS1)			Prepared	: 01/31/23	10:51 Anal	yzed: 02/01	/23 16:53					C-07		
QC Source Sample: T-50-DNAPL-	01202023 (A3A0810-01)												
Surr: Decachlorobiphenyl (Surr)		Reco	overy: 92 %	Limits: 6	60-125 %	Dilı	ution: 1x							

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

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Portland, OR 97219

 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

Project Manager: Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte Detection Limit Reporting Limit Spike Units Source Amount % REC % RI Limit Batch 23A1083 - EPA 3580A Liquid Liquid Liquid Liquid Blank (23A1083-BLK1) Prepared: 01/30/23 12:15 Analyzed: 01/30/23 15:37 EPA 8270E Accenaphthene ND 0.0500 0.100 mg/kg 1 Accenaphthylene ND 0.0500 0.100 mg/kg 1 Anthracene ND 0.0500 0.100 mg/kg 1	C s RPD	RPD	
Batch 23A1083 - EPA 3580A Liquid Blank (23A1083-BLK1) Prepared: 01/30/23 12:15 Analyzed: 01/30/23 15:37 EPA 8270E Accnaphthene ND 0.0500 0.100 mg/kg 1 Accnaphthylene ND 0.0500 0.100 mg/kg 1 Anthracene ND 0.0500 0.100 mg/kg 1		Limit	i Notes
Blank (23A1083-BLK1) Prepared: 01/30/23 12:15 Analyzed: 01/30/23 15:37 EPA 8270E ND 0.0500 0.100 mg/kg 1 Acenaphthene ND 0.0500 0.100 mg/kg 1 Acenaphthylene ND 0.0500 0.100 mg/kg 1 Anthracene ND 0.0500 0.100 mg/kg 1			
EPA 8270E Acenaphthene ND 0.0500 0.100 mg/kg 1			
Acenaphthene ND 0.0500 0.100 mg/kg 1			
Acenaphthylene ND 0.0500 0.100 mg/kg 1 Anthracene ND 0.0500 0.100 mg/kg 1 <			
Anthracene ND 0.0500 0.100 mg/kg 1			
Benz(a)anthracene ND 0.0500 0.100 mg/kg 1			
Benzo(a)pyrene ND 0.0750 0.150 mg/kg 1			
Benzo(b)fluoranthene ND 0.0750 0.150 mg/kg 1			
Benzo(k)fluoranthene ND 0.0750 0.150 mg/kg 1			
Benzo(g,h,i)perylene ND 0.0500 0.100 mg/kg 1			
Chrysene ND 0.0500 0.100 mg/kg 1			
Dibenz(a,h)anthracene ND 0.0500 0.100 mg/kg 1			
Fluoranthene ND 0.0500 0.100 mg/kg 1			
Fluorene ND 0.0500 0.100 mg/kg 1			
Indeno(1,2,3-cd)pyrene ND 0.0500 0.100 mg/kg 1			
1-Methylnaphthalene ND 0.100 0.200 mg/kg 1			
2-Methylnaphthalene ND 0.100 0.200 mg/kg 1			
Naphthalene ND 0.100 0.200 mg/kg 1			
Phenanthrene ND 0.0500 0.100 mg/kg 1			
Pyrene ND 0.0500 0.100 mg/kg 1			
Carbazole ND 0.0750 0.150 mg/kg 1			
Dibenzofuran ND 0.0500 0.100 mg/kg 1			
2-Chlorophenol ND 0.250 0.500 mg/kg 1			
4-Chloro-3-methylphenol ND 0.500 1.00 mg/kg 1			
2.4-Dichlorophenol ND 0.250 0.500 mg/kg 1			
2.4-Dimethylphenol ND 0.250 0.500 mg/kg 1			
2.4-Dinitrophenol ND 1.25 2.50 mg/kg 1			
4.6-Dinitro-2-methylphenol ND 1.25 2.50 mg/kg 1			
2-Methylphenol ND 0.125 0.250 mg/kg 1			
3+4-Methylphenol(s) ND 0.125 0.250 mg/kg 1			
2-Nitrophenol ND 0.500 1.00 mg/kg 1			
4-Nitrophenol ND 0.500 1.00 mg/kg 1			
Pentachlorophenol (PCP) ND 0.500 1.00 mg/kg 1			
Phenol ND 0.100 0.200 mg/kg 1			
2,3,4,6-Tetrachlorophenol ND 0.250 0.500 mg/kg 1			

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-T-50 DNAPL

Project Number: 000029-02.84 T-(01.001K) Project Manager: Ben Uhl <u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

		Sei	mivolatile (Organic O	Compoun	ds by EP/	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1083 - EPA 3580A							Liq	uid				
Blank (23A1083-BLK1)			Prepared	: 01/30/23	2:15 Anal	yzed: 01/30/	23 15:37					
2,3,5,6-Tetrachlorophenol	ND	0.250	0.500	mg/kg	1							
2,4,5-Trichlorophenol	ND	0.250	0.500	mg/kg	1							
Nitrobenzene	ND	0.500	1.00	mg/kg	1							
2,4,6-Trichlorophenol	ND	0.250	0.500	mg/kg	1							
Bis(2-ethylhexyl)phthalate	ND	0.750	1.50	mg/kg	1							
Butyl benzyl phthalate	ND	0.500	1.00	mg/kg	1							
Diethylphthalate	ND	0.500	1.00	mg/kg	1							
Dimethylphthalate	ND	0.500	1.00	mg/kg	1							
Di-n-butylphthalate	ND	0.500	1.00	mg/kg	1							
Di-n-octyl phthalate	ND	0.500	1.00	mg/kg	1							
N-Nitrosodimethylamine	ND	0.125	0.250	mg/kg	1							
N-Nitroso-di-n-propylamine	ND	0.125	0.250	mg/kg	1							
N-Nitrosodiphenylamine	ND	0.125	0.250	mg/kg	1							
Bis(2-Chloroethoxy) methane	ND	0.125	0.250	mg/kg	1							
Bis(2-Chloroethyl) ether	ND	0.125	0.250	mg/kg	1							
2,2'-Oxybis(1-Chloropropane)	ND	0.125	0.250	mg/kg	1							
Hexachlorobenzene	ND	0.0500	0.100	mg/kg	1							
Hexachlorobutadiene	ND	0.125	0.250	mg/kg	1							
Hexachlorocyclopentadiene	ND	0.250	0.500	mg/kg	1							
Hexachloroethane	ND	0.125	0.250	mg/kg	1							
2-Chloronaphthalene	ND	0.0500	0.100	mg/kg	1							
1,2,4-Trichlorobenzene	ND	0.125	0.250	mg/kg	1							
4-Bromophenyl phenyl ether	ND	0.125	0.250	mg/kg	1							
4-Chlorophenyl phenyl ether	ND	0.125	0.250	mg/kg	1							
Aniline	ND	0.250	0.500	mg/kg	1							
4-Chloroaniline	ND	0.125	0.250	mg/kg	1							
2-Nitroaniline	ND	1.00	2.00	mg/kg	1							
3-Nitroaniline	ND	1.00	2.00	mg/kg	1							
4-Nitroaniline	ND	1.00	2.00	mg/kg	1							
2,4-Dinitrotoluene	ND	0.500	1.00	mg/kg	1							
2,6-Dinitrotoluene	ND	0.500	1.00	mg/kg	1							
Benzoic acid	ND	6.25	12.5	mg/kg	1							
Benzyl alcohol	ND	0.250	0.500	mg/kg	1							
Isophorone	ND	0.125	0.250	mg/kg	1							

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-T-50 DNAPL

Project Number: 000029-02.84 T-(01.001K) Project Manager: Ben Uhl <u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E													
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23A1083 - EPA 3580A							Liq	uid					
Blank (23A1083-BLK1)			Preparec	1: 01/30/23	12:15 Anal	lyzed: 01/30	/23 15:37						
Azobenzene (1,2-DPH)	ND	0.125	0.250	mg/kg	1								
Bis(2-Ethylhexyl) adipate	ND	1.25	2.50	mg/kg	1								
3,3'-Dichlorobenzidine	ND	1.00	2.00	mg/kg	1							Q-5	
1,2-Dinitrobenzene	ND	1.25	2.50	mg/kg	1								
1,3-Dinitrobenzene	ND	1.25	2.50	mg/kg	1								
1,4-Dinitrobenzene	ND	1.25	2.50	mg/kg	1								
Pyridine	ND	0.250	0.500	mg/kg	1								
1,2-Dichlorobenzene	ND	0.125	0.250	mg/kg	1								
1,3-Dichlorobenzene	ND	0.125	0.250	mg/kg	1								
1,4-Dichlorobenzene	ND	0.125	0.250	mg/kg	1								
Surr: Nitrobenzene-d5 (Surr)		Reco	wery: 99%	Limits: 37	-122 %	Dilı	ution: 1x						
2-Fluorobiphenyl (Surr)			101 %	44	-120 %		"						
Phenol-d6 (Surr)			95 %	33	-122 %		"						
p-Terphenyl-d14 (Surr)			114 %	54	-127 %		"						
2-Fluorophenol (Surr)			104 %	35	-120 %		"						
2,4,6-Tribromophenol (Surr)			56 %	39	-132 %		"						
LCS (23A1083-BS1)			Preparec	1: 01/30/23	12:15 Anal	lyzed: 01/30	/23 16:12					Q-18	
EPA 8270E													
Acenaphthene	8.47	0.0500	0.100	mg/kg	1	8.00		106	40-123%				
Acenaphthylene	9.00	0.0500	0.100	mg/kg	1	8.00		112	32-132%				
Anthracene	8.99	0.0500	0.100	mg/kg	1	8.00		112	47-123%				
Benz(a)anthracene	8.77	0.0500	0.100	mg/kg	1	8.00		110	49-126%				
Benzo(a)pyrene	8.16	0.0750	0.150	mg/kg	1	8.00		102	45-129%				
Benzo(b)fluoranthene	8.01	0.0750	0.150	mg/kg	1	8.00		100	45-132%				
Benzo(k)fluoranthene	8.34	0.0750	0.150	mg/kg	1	8.00		104	47-132%				
Benzo(g,h,i)perylene	9.22	0.0500	0.100	mg/kg	1	8.00		115	43-134%				
Chrysene	8.49	0.0500	0.100	mg/kg	1	8.00		106	50-124%				
Dibenz(a,h)anthracene	8.62	0.0500	0.100	mg/kg	1	8.00		108	45-134%				
Fluoranthene	9.39	0.0500	0.100	mg/kg	1	8.00		117	50-127%				
Fluorene	8.84	0.0500	0.100	mg/kg	1	8.00		110	43-125%				
Indeno(1,2,3-cd)pyrene	8.88	0.0500	0.100	mg/kg	1	8.00		111	45-133%				
1-Methylnaphthalene	8.65	0.100	0.200	mg/kg	1	8.00		108	40-120%				
2-Methylnaphthalene	8.98	0.100	0.200	mg/kg	1	8.00		112	38-122%				

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: <u>Gasco-T-50 DNAPL</u>

Project Number: 000029-02.84 T-(01.001K) Project Manager: Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	mivolatile (Organic (Compoun	ds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1083 - EPA 3580A							Liq	uid				
LCS (23A1083-BS1)			Prepared	: 01/30/23	12:15 Anal	yzed: 01/30	/23 16:12					Q-18
Naphthalene	8.60	0.100	0.200	mg/kg	1	8.00		107	35-123%			
Phenanthrene	8.34	0.0500	0.100	mg/kg	1	8.00		104	50-121%			
Pyrene	9.51	0.0500	0.100	mg/kg	1	8.00		119	47-127%			
Dibenzofuran	8.78	0.0500	0.100	mg/kg	1	8.00		110	44-120%			
2-Chlorophenol	8.46	0.250	0.500	mg/kg	1	8.00		106	34-121%			
4-Chloro-3-methylphenol	9.14	0.500	1.00	mg/kg	1	8.00		114	45-122%			
2,4-Dichlorophenol	9.10	0.250	0.500	mg/kg	1	8.00		114	40-122%			
2,4-Dimethylphenol	9.93	0.250	0.500	mg/kg	1	8.00		124	30-127%			
2,4-Dinitrophenol	8.27	1.25	2.50	mg/kg	1	8.00		103	10-137%			
4,6-Dinitro-2-methylphenol	8.81	1.25	2.50	mg/kg	1	8.00		110	29-132%			
2-Methylphenol	8.69	0.125	0.250	mg/kg	1	8.00		109	32-122%			
3+4-Methylphenol(s)	8.60	0.125	0.250	mg/kg	1	8.00		108	34-120%			
2-Nitrophenol	8.63	0.500	1.00	mg/kg	1	8.00		108	36-123%			
4-Nitrophenol	8.84	0.500	1.00	mg/kg	1	8.00		110	30-132%			
Pentachlorophenol (PCP)	8.76	0.500	1.00	mg/kg	1	8.00		109	25-133%			
Phenol	7.49	0.100	0.200	mg/kg	1	8.00		94	34-121%			
2,3,4,6-Tetrachlorophenol	8.98	0.250	0.500	mg/kg	1	8.00		112	44-125%			
2,3,5,6-Tetrachlorophenol	8.77	0.250	0.500	mg/kg	1	8.00		110	40-120%			
2,4,5-Trichlorophenol	9.11	0.250	0.500	mg/kg	1	8.00		114	41-124%			
Nitrobenzene	8.81	0.500	1.00	mg/kg	1	8.00		110	34-122%			
2,4,6-Trichlorophenol	8.61	0.250	0.500	mg/kg	1	8.00		108	39-126%			
Bis(2-ethylhexyl)phthalate	8.19	0.750	1.50	mg/kg	1	8.00		102	51-133%			
Butyl benzyl phthalate	8.32	0.500	1.00	mg/kg	1	8.00		104	48-132%			
Diethylphthalate	8.89	0.500	1.00	mg/kg	1	8.00		111	50-124%			
Dimethylphthalate	8.80	0.500	1.00	mg/kg	1	8.00		110	48-124%			
Di-n-butylphthalate	8.13	0.500	1.00	mg/kg	1	8.00		102	51-128%			
Di-n-octyl phthalate	8.02	0.500	1.00	mg/kg	1	8.00		100	45-140%			
N-Nitrosodimethylamine	7.60	0.125	0.250	mg/kg	1	8.00		95	23-120%			
N-Nitroso-di-n-propylamine	8.89	0.125	0.250	mg/kg	1	8.00		111	36-120%			
N-Nitrosodiphenylamine	8.69	0.125	0.250	mg/kg	1	8.00		109	38-127%			
Bis(2-Chloroethoxy) methane	8.55	0.125	0.250	mg/kg	1	8.00		107	36-121%			
Bis(2-Chloroethyl) ether	7.28	0.125	0.250	mg/kg	1	8.00		91	31-120%			
2,2'-Oxybis(1-Chloropropane)	8.01	0.125	0.250	mg/kg	1	8.00		100	39-120%			
Hexachlorobenzene	8.26	0.0500	0.100	mg/kg	1	8.00		103	45-122%			

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Portland, OR 97219

Project: Gasco-T-50 DNAPL

Project Number: 000029-02.84 T-(01.001K) Project Manager: Ben Uhl <u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

	Semivolatile Organic Compounds by EPA 8270E												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23A1083 - EPA 3580A							Liq	uid					
LCS (23A1083-BS1)			Prepared	l: 01/30/23	12:15 Ana	lyzed: 01/30	/23 16:12					Q-18	
Hexachlorobutadiene	8.41	0.125	0.250	mg/kg	1	8.00		105	32-123%				
Hexachlorocyclopentadiene	7.27	0.250	0.500	mg/kg	1	8.00		91	10-140%				
Hexachloroethane	8.47	0.125	0.250	mg/kg	1	8.00		106	28-120%				
2-Chloronaphthalene	8.15	0.0500	0.100	mg/kg	1	8.00		102	41-120%				
1,2,4-Trichlorobenzene	8.79	0.125	0.250	mg/kg	1	8.00		110	34-120%				
4-Bromophenyl phenyl ether	8.58	0.125	0.250	mg/kg	1	8.00		107	46-124%				
4-Chlorophenyl phenyl ether	8.74	0.125	0.250	mg/kg	1	8.00		109	45-121%				
Aniline	7.42	0.250	0.500	mg/kg	1	8.00		93	10-120%				
4-Chloroaniline	3.54	0.125	0.250	mg/kg	1	8.00		44	17-120%				
2-Nitroaniline	8.44	1.00	2.00	mg/kg	1	8.00		106	44-127%				
4-Nitroaniline	9.69	1.00	2.00	mg/kg	1	8.00		121	51-125%				
2,4-Dinitrotoluene	9.26	0.500	1.00	mg/kg	1	8.00		116	48-126%				
2,6-Dinitrotoluene	8.51	0.500	1.00	mg/kg	1	8.00		106	46-124%				
Benzoic acid	14.2	6.25	12.5	mg/kg	1	16.0		89	10-140%			Q-3	
Benzyl alcohol	8.03	0.250	0.500	mg/kg	1	8.00		100	29-122%				
Isophorone	8.98	0.125	0.250	mg/kg	1	8.00		112	30-122%				
Azobenzene (1,2-DPH)	8.12	0.125	0.250	mg/kg	1	8.00		102	39-125%				
Bis(2-Ethylhexyl) adipate	8.17	1.25	2.50	mg/kg	1	8.00		102	61-121%				
3,3'-Dichlorobenzidine	29.6	1.00	2.00	mg/kg	1	16.0		185	22-121%			Q-29, Q-5	
1,2-Dinitrobenzene	9.00	1.25	2.50	mg/kg	1	8.00		113	44-120%				
1,3-Dinitrobenzene	8.59	1.25	2.50	mg/kg	1	8.00		107	43-127%				
1,4-Dinitrobenzene	9.00	1.25	2.50	mg/kg	1	8.00		113	37-132%				
Pyridine	6.88	0.250	0.500	mg/kg	1	8.00		86	10-120%				
1,2-Dichlorobenzene	8.38	0.125	0.250	mg/kg	1	8.00		105	33-120%				
1,3-Dichlorobenzene	8.23	0.125	0.250	mg/kg	1	8.00		103	30-120%				
1,4-Dichlorobenzene	8.22	0.125	0.250	mg/kg	1	8.00		103	31-120%				
Surr: Nitrobenzene-d5 (Surr)		Recov	ery: 114 %	Limits: 37	-122 %	Dilı	ution: 1x						
2-Fluorobiphenyl (Surr)			101 %	44	-120 %		"						
Phenol-d6 (Surr)			94 %	33	-122 %		"						
p-Terphenyl-d14 (Surr)			116 %	54	-127 %		"						
2-Fluorophenol (Surr)			112 %	35	-120 %		"						
2,4,6-Tribromophenol (Surr)			108 %	39	-132 %		"						

LCS (23A1083-BS2)

Prepared: 01/30/23 12:15 Analyzed: 01/31/23 12:03

Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

 Project Manager:
 Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

	Semivolatile Organic Compounds by EPA 8270E											
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1083 - EPA 3580A							Liq	uid				
LCS (23A1083-BS2)			Prepared	: 01/30/23	12:15 Ana	lyzed: 01/31	/23 12:03					
<u>EPA 8270E</u>												
Carbazole	9.40	0.300	0.600	mg/kg	4	8.00		117	50-123%			
3-Nitroaniline	6.88	4.00	4.00	mg/kg	4	8.00		86	33-120%			
Duplicate (23A1083-DUP1)			Prepared	: 01/30/23 1	12:15 Ana	lyzed: 01/30	/23 17:21					
<u>QC</u> Source Sample: T-50-DNAPL	-01202023 (<u>A3A0810-01)</u>										
EPA 8270E	-	20 F			100		10000			~	2004	
Acenaphthene	17600	38.5	76.9	mg/kg	100		17200			2	30%	
Acenaphthylene	ND	846	846	mg/kg	100		ND				30%	R-0
Anthracene	7810	38.5	76.9	mg/kg	100		7580			3	30%	
Benz(a)anthracene	3730	38.5	76.9	mg/kg	100		3670			2	30%	
Benzo(a)pyrene	4040	57.7	115	mg/kg	100		3990			1	30%	
Benzo(b)fluoranthene	3350	57.7	115	mg/kg	100		3340			0.5	30%	
Benzo(k)fluoranthene	1200	57.7	115	mg/kg	100		1210			0.9	30%	M-0
Benzo(g,h,1)perylene	2570	38.5	76.9	mg/kg	100		2570			0.3	30%	
Chrysene	4970	38.5	76.9	mg/kg	100		4680			6	30%	
Dibenz(a,h)anthracene	230	38.5	76.9	mg/kg	100		202			13	30%	
Fluoranthene	18700	38.5	76.9	mg/kg	100		18300			2	30%	
Fluorene	8460	38.5	76.9	mg/kg	100		9270			9	30%	
Indeno(1,2,3-cd)pyrene	2200	38.5	76.9	mg/kg	100		2130			3	30%	
1-Methylnaphthalene	16000	76.9	154	mg/kg	100		15300			4	30%	
2-Methylnaphthalene	23100	76.9	154	mg/kg	100		22800			1	30%	
Naphthalene	24200	76.9	154	mg/kg	100		23500			3	30%	
Phenanthrene	35800	38.5	76.9	mg/kg	100		34300			4	30%	RR-
Pyrene	21800	38.5	76.9	mg/kg	100		21600			1	30%	
Carbazole	1930	57.7	115	mg/kg	100		2200			13	30%	
Dibenzofuran	1520	38.5	76.9	mg/kg	100		1480			2	30%	
2-Chlorophenol	ND	192	385	mg/kg	100		ND				30%	
4-Chloro-3-methylphenol	ND	385	769	mg/kg	100		ND				30%	
2,4-Dichlorophenol	ND	192	385	mg/kg	100		ND				30%	
2,4-Dimethylphenol	ND	192	385	mg/kg	100		ND				30%	
2,4-Dinitrophenol	ND	962	1920	mg/kg	100		ND				30%	
4,6-Dinitro-2-methylphenol	ND	962	1920	mg/kg	100		ND				30%	
2-Methylphenol	ND	96.2	192	mg/kg	100		ND				30%	

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<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

 Project Manager:
 Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

	_	Detection	Reporting			Spike	Source		% REC	-	RPD	_
Analyte	Result	Limit	Limit	Units	Dilution	Amount	Result	% REC	Limits	RPD	Limit	Notes
Batch 23A1083 - EPA 3580A							Liqu	uid				
Duplicate (23A1083-DUP1)			Prepared:	01/30/23 1	2:15 Anal	yzed: 01/30/	23 17:21					
QC Source Sample: T-50-DNAPL-	01202023 (A3A0810-01)										
3+4-Methylphenol(s)	ND	96.2	192	mg/kg	100		ND				30%	
2-Nitrophenol	ND	385	769	mg/kg	100		ND				30%	
4-Nitrophenol	ND	1770	1770	mg/kg	100		ND				30%	R-0
Pentachlorophenol (PCP)	ND	385	769	mg/kg	100		ND				30%	
Phenol	ND	76.9	154	mg/kg	100		ND				30%	
2,3,4,6-Tetrachlorophenol	ND	192	385	mg/kg	100		ND				30%	
2,3,5,6-Tetrachlorophenol	ND	192	385	mg/kg	100		ND				30%	
2,4,5-Trichlorophenol	ND	192	385	mg/kg	100		ND				30%	
Nitrobenzene	ND	385	769	mg/kg	100		ND				30%	
2,4,6-Trichlorophenol	ND	192	385	mg/kg	100		ND				30%	
Bis(2-ethylhexyl)phthalate	ND	577	1150	mg/kg	100		ND				30%	
Butyl benzyl phthalate	ND	385	769	mg/kg	100		ND				30%	
Diethylphthalate	ND	385	769	mg/kg	100		ND				30%	
Dimethylphthalate	ND	385	769	mg/kg	100		ND				30%	
Di-n-butylphthalate	ND	385	769	mg/kg	100		ND				30%	
Di-n-octyl phthalate	ND	385	769	mg/kg	100		ND				30%	
N-Nitrosodimethylamine	ND	96.2	192	mg/kg	100		ND				30%	
N-Nitroso-di-n-propylamine	ND	96.2	192	mg/kg	100		ND				30%	
N-Nitrosodiphenylamine	ND	923	923	mg/kg	100		ND				30%	R-0
Bis(2-Chloroethoxy) methane	ND	96.2	192	mg/kg	100		ND				30%	
Bis(2-Chloroethyl) ether	ND	96.2	192	mg/kg	100		ND				30%	
2,2'-Oxybis(1-Chloropropane)	ND	96.2	192	mg/kg	100		ND				30%	
Hexachlorobenzene	ND	38.5	76.9	mg/kg	100		ND				30%	
Hexachlorobutadiene	ND	96.2	192	mg/kg	100		ND				30%	
Hexachlorocyclopentadiene	ND	192	385	mg/kg	100		ND				30%	
Hexachloroethane	ND	96.2	192	mg/kg	100		ND				30%	
2-Chloronaphthalene	ND	76.9	76.9	mg/kg	100		ND				30%	
1,2,4-Trichlorobenzene	ND	96.2	192	mg/kg	100		ND				30%	
4-Bromophenyl phenyl ether	ND	96.2	192	mg/kg	100		ND				30%	
4-Chlorophenvl phenvl ether	ND	96.2	192	mg/kg	100		ND				30%	
Aniline	ND	192	385	mg/kg	100		ND				30%	
4-Chloroaniline	ND	96.2	192	mø/ko	100		ND				30%	
2-Nitroaniline	ND	760	1540	malka	100		ND				30%	

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Portland, OR 97219

 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

 Project Manager:
 Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1083 - EPA 3580A							Liqu	uid				
Duplicate (23A1083-DUP1)			Prepared	1: 01/30/23	12:15 Anal	lyzed: 01/30/	/23 17:21					
QC Source Sample: T-50-DNAPL-	01202023 (A3A0810-01)										
3-Nitroaniline	ND	769	1540	mg/kg	100		ND				30%	
4-Nitroaniline	ND	769	1540	mg/kg	100		ND				30%	
2,4-Dinitrotoluene	ND	1000	1000	mg/kg	100		ND				30%	R-(
2,6-Dinitrotoluene	ND	385	769	mg/kg	100		ND				30%	
Benzoic acid	ND	4810	9620	mg/kg	100		ND				30%	
Benzyl alcohol	ND	192	385	mg/kg	100		ND				30%	
Isophorone	ND	96.2	192	mg/kg	100		ND				30%	
Azobenzene (1,2-DPH)	ND	192	192	mg/kg	100		ND				30%	
Bis(2-Ethylhexyl) adipate	ND	962	1920	mg/kg	100		ND				30%	
3,3'-Dichlorobenzidine	ND	769	1540	mg/kg	100		ND				30%	Q-:
1,2-Dinitrobenzene	ND	962	1920	mg/kg	100		ND				30%	
1,3-Dinitrobenzene	ND	962	1920	mg/kg	100		ND				30%	
1,4-Dinitrobenzene	ND	962	1920	mg/kg	100		ND				30%	
Pyridine	ND	192	385	mg/kg	100		ND				30%	
1,2-Dichlorobenzene	ND	96.2	192	mg/kg	100		ND				30%	
1,3-Dichlorobenzene	ND	96.2	192	mg/kg	100		ND				30%	
1,4-Dichlorobenzene	ND	96.2	192	mg/kg	100		ND				30%	
Surr: Nitrobenzene-d5 (Surr)		Recove	ery: 120 %	Limits: 37	'-122 %	Dilu	ution: 100x					S-05
2-Fluorobiphenyl (Surr)			153 %	44	-120 %		"					S-05
Phenol-d6 (Surr)			63 %	33-	-122 %		"					S-05
p-Terphenyl-d14 (Surr)			126 %	54	-127 %		"					S-05
2-Fluorophenol (Surr)			53 %	35-	-120 %		"					S-05
2,4,6-Tribromophenol (Surr)			334 %	39	-132 %		"					S-05
Duplicate (23A1083-DUP2)	-	_	Prepared	I: 01/30/23 1	12:15 Anal	yzed: 01/30/	/23 18:30	_	_	-	-	_
QC Source Sample: T-50-DNAPL-	-01202023 (.	A3A0810-01RE	<u>1)</u>									
<u>EPA 8270E</u> Phenanthrene	55100	385	769	mø/kø	1000		61800			11	30%	

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Portland, OR 97219

Project: <u>Gasco-T-50 DNAPL</u>

Project Number: 000029-02.84 T-(01.001K) Project Manager: Ben Uhl <u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total M	etals by	EPA 6020	B (ICPMS	5)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0958 - EPA 3015A							Liq	uid				
Blank (23A0958-BLK1)			Prepared	01/26/23 1	1:12 Anal	yzed: 01/27/	23 14:32					
<u>EPA 6020B</u>												
Arsenic	ND	0.500	1.00	mg/kg	10							
Barium	ND	0.500	1.00	mg/kg	10							
Cadmium	ND	0.100	0.200	mg/kg	10							
Chromium	ND	0.500	1.00	mg/kg	10							
Lead	ND	0.100	0.200	mg/kg	10							
Mercury	ND	0.0400	0.0800	mg/kg	10							
Selenium	ND	0.500	1.00	mg/kg	10							
Silver	ND	0.100	0.200	mg/kg	10							
LCS (23A0958-BS1)			Prepared	01/26/23 1	1:12 Anal	yzed: 01/27/	23 14:37					
EPA 6020B												
Arsenic	48.0	0.500	1.00	mg/kg	10	50.0		96	80-120%			
Barium	49.4	0.500	1.00	mg/kg	10	50.0		99	80-120%			
Cadmium	49.8	0.100	0.200	mg/kg	10	50.0		100	80-120%			
Chromium	48.3	0.500	1.00	mg/kg	10	50.0		97	80-120%			
Lead	48.7	0.100	0.200	mg/kg	10	50.0		97	80-120%			
Mercury	0.990	0.0400	0.0800	mg/kg	10	1.00		99	80-120%			
Selenium	23.3	0.500	1.00	mg/kg	10	25.0		93	80-120%			
Silver	25.6	0.100	0.200	mg/kg	10	25.0		102	80-120%			
Duplicate (23A0958-DUP2)			Prepared	01/26/23 1	1:12 Anal	yzed: 01/27/	23 16:54					
QC Source Sample: T-50-DNAPL-	<u>0120202</u> 3 (#	43A0810-01RE	<u>.</u> 1)									
EPA 6020B	<u>`</u>											
Arsenic	6.80	0.521	1.04	mg/kg	10		6.97			2	20%	Q-
Barium	ND	0.521	1.04	mg/kg	10		ND				20%	Q-
Cadmium	ND	0.104	0.208	mg/kg	10		ND				20%	Q-
Chromium	ND	0.521	1.04	mg/kg	10		ND				20%	Q-
Lead	ND	0.104	0.208	mg/kg	10		ND				20%	Q-
Mercury	ND	0.0417	0.0833	mg/kg	10		ND				20%	Q-
Selenium	ND	0.521	1.04	mg/kg	10		ND				20%	Q-
Silver	ND	0.104	0.208	mg/ko	10		ND				20%	0-

Matrix Spike (23A0958-MS2)

Prepared: 01/26/23 11:12 Analyzed: 01/27/23 16:59

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Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125 Portland, OR 97219
 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

 Project Manager:
 Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0958 - EPA 3015A							Liq	uid				
Matrix Spike (23A0958-MS2)			Prepared	: 01/26/23	11:12 Ana	lyzed: 01/27	/23 16:59					
<u>QC</u> Source Sample: T-50-DNAPL-()1202023 (A3A0810-01RH	<u>E1)</u>									
<u>EPA 6020B</u>												
Arsenic	58.4	0.521	1.04	mg/kg	10	52.1	6.97	99	75-125%			Q-1
Barium	49.1	0.521	1.04	mg/kg	10	52.1	ND	94	75-125%			Q-1
Cadmium	50.9	0.104	0.208	mg/kg	10	52.1	ND	98	75-125%			Q-1
Chromium	50.3	0.521	1.04	mg/kg	10	52.1	ND	96	75-125%			Q-1
Lead	50.6	0.104	0.208	mg/kg	10	52.1	ND	97	75-125%			Q-1
Mercury	0.968	0.0417	0.0833	mg/kg	10	1.04	ND	93	75-125%			Q-1
Selenium	26.0	0.521	1.04	mg/kg	10	26.0	ND	100	75-125%			Q-1
Silver	26.2	0.104	0.208	mg/kg	10	26.0	ND	101	75-125%			Q-1

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<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-T-50 DNAPL

Project Number: 000029-02.84 T-(01.001K) Project Manager: Ben Uhl <u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

	Conventional Chemistry Parameters											
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0930 - DI Leach							Liq	uid				
Duplicate (23A0930-DUP1)			Prepared	: 01/25/23 1	5:18 Ana	lyzed: 01/25	/23 16:39					
QC Source Sample: T-50-DNAPL- EPA 9045D	01202023 (<u>A3A0810-01)</u>										
Liquid/Oil pH (measured in H2O)	7.3			pH Unit	s 1		7.3			0.5	10%	pH_
pH Temperature (deg C)	23.1			pH Unit	s 1		24.3			5	30%	pH_
Reference (23A0930-SRM1)			Prepared	: 01/25/23 1	5:18 Ana	lyzed: 01/25	/23 16:24					
EPA 9045D Liquid/Oil pH (measured in H2O)	6.0			pH Unit	s 1	6.00		100	98-102%			
pH Temperature (deg C)	22.0			pH Unit	s 1	20.0		110	50-200%			
Reference (23A0930-SRM2)			Prepared	: 01/25/23 1	5:18 Ana	lyzed: 01/25	/23 16:41					
EPA 9045D Liquid/Oil pH (measured in H2O)	7.9			pH Unit	s 1	8.00		99	99-101%			
pH Temperature (deg C)	22.0			pH Unit	s 1	20.0		110	50-200%			

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Project: Gasco-T-50 DNAPL

Project Number: 000029-02.84 T-(01.001K) Project Manager: Ben Uhl <u>Report ID:</u> A3A0810 - 02 08 23 0645

QUALITY CONTROL (QC) SAMPLE RESULTS

Conventional Chemistry Parameters												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0160 - Flashpoint							Soi	l				
LCS (23B0160-BS1)			Prepared	: 02/03/23	16:23 Ana	lyzed: 02/03	/23 16:49					
EPA 1010M												
Flash Point (Ignitability)	141			degF	1	145		97	95-105%	,		

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Anchor QEA, LLC	Project:	Gasco-T-50 DNAPL	
6720 SW Macadam Ave. Suite 125	Project Number	: 000029-02.84 T-(01.001K)	<u>Report ID:</u>
Portland, OR 97219	Project Manager	Ben Uhl	A3A0810 - 02 08 23 0645

SAMPLE PREPARATION INFORMATION

	Volatile Organic Compounds by EPA 8260D										
Prep: EPA 5035A					Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
Batch: 23A0903											
A3A0810-01	Liquid	5035A/8260D	01/20/23 10:15	01/24/23 15:43	0.5g/5mL	5g/5mL	10.00				
Batch: 23A1004					/						
A3A0810-01RE1	Liquid	5035A/8260D	01/20/23 10:15	01/24/23 15:43	0.5g/5mL	5g/5mL	10.00				
		Polych	lorinated Biphenyls I	by EPA 8082A							
<u>Prep: EPA 3546</u>		· · · ·			Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
Batch: 23A1115			*								
A3A0810-01	Liquid	EPA 8082A	01/20/23 10:15	01/31/23 10:51	0.13g/5mL	2g/5mL	15.40				
		Semivolati	le Organic Compour	ids by EPA 8270E							
Prep: EPA 3580A					Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
Batch: 23A1083			-								
A3A0810-01	Liquid	EPA 8270E	01/20/23 10:15	01/30/23 12:15	0.13g/5mL	1g/5mL	7.69				
A3A0810-01RE1	Liquid	EPA 8270E	01/20/23 10:15	01/30/23 12:15	0.13g/5mL	1g/5mL	7.69				
		Tota	I Metals by EPA 6020	0B (ICPMS)							
<u>Prep: EPA 3015A</u>			· · · · ·		Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
Batch: 23A0958											
A3A0810-01RE1	Liquid	EPA 6020B	01/20/23 10:15	01/26/23 11:12	0.479g/50mL	0.5g/50mL	1.04				
		Con	ventional Chemistry	Parameters							
Prep: DI Leach					Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
Batch: 23A0930			1								
A3A0810-01	Liquid	EPA 9045D	01/20/23 10:15	01/25/23 15:18	10.1085g/10mL	20g/20mL	NA				
Prep: Flashpoint					Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				

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Anchor QEA, LLC
6720 SW Macadam Ave. Suite 125
Portland, OR 97219

 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

 Project Manager:
 Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

SAMPLE PREPARATION INFORMATION

Conventional Chemistry Parameters										
Prep: Flashpoint					Sample	Default	RL Prep			
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor			
Batch: 23B0160										
A3A0810-01	Liquid	EPA 1010M	01/20/23 10:15	02/03/23 16:23			NA			

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QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- C-07 Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- J Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-05 Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- pH_S Method recommends preparation 'as soon as possible'. See Sample Preparation Information section of report for details. Consult regulator or permit manager to determine the usability of data for intended purpose.
- Q-01 Spike recovery and/or RPD is outside acceptance limits.
- Q-16 Reanalysis of an original Batch QC sample.
- Q-18 Matrix Spike results for this extraction batch are not reported due to the high dilution necessary for analysis of the source sample.
- Q-29 Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-31 Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-52 Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- Q-54 Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +22%. The results are reported as Estimated Values.
- Q-54a Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +23%. The results are reported as Estimated Values.
- Q-54b Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +26%. The results are reported as Estimated Values.
- Q-54c Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +46%. The results are reported as Estimated Values.
- Q-54d Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +74%. The results are reported as Estimated Values.
- Q-54e Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +9%. The results are reported as Estimated Values.
- Q-54f Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +96%. The results are reported as Estimated Values.
- Q-54g Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -1%. The results are reported as Estimated Values.
- Q-54h Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -2%. The results are reported as Estimated Values.

Apex Laboratories



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA</u> 6720 SW Mac Portland, OR	<u>, LLC</u> cadam Ave. Suite 125 2 97219	Project: Project Number: Project Manager:	<u>Gasco-T-50 DNAPL</u> 000029-02.84 T-(01.001K) Ben Uhl	<u>Report ID:</u> A3A0810 - 02 08 23 0645
Q-55	Daily CCV/LCS recovery for this analyte was belo detection at the reporting level.	ow the +/-20% crite	eria listed in EPA 8260, however there is adequate s	ensitivity to ensure
Q-56	Daily CCV/LCS recovery for this analyte was about	ve the +/-20% crite	eria listed in EPA 8260	
R-02	The Reporting Limit for this analyte has been raise	ed to account for in	terference from coeluting organic compounds prese	ent in the sample.
RR-2	Not Reported - Needs Dilution. Sample will be Re	erun.		
S-05	Surrogate recovery is estimated due to sample dilu	tion required for hi	igh analyte concentration and/or matrix interference	е.
V-15	Sample aliquot was subsampled from the sample c sampling.	ontainer. The subs	ampled aliquot was preserved in the laboratory with	hin 48 hours of
V-16	Sample aliquot was subsampled from the sample c sampling.	ontainer in the labo	pratory. The subsampled aliquot was not preserved	within 48 hours of

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Anchor QEA, LLC

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Project Number: 000029-02.84 T-(01.001K) Project Manager: Ben Uhl <u>Report ID:</u> A3A0810 - 02 08 23 0645

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET	Analyte DETECTED at or above the detection or reporting limit.
ND	Analyte NOT DETECTED at or above the detection or reporting limit.
NR	Result Not Reported
RPD	Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ). If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

- <u>" dry"</u> Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry") See Percent Solids section for details of dry weight analysis.
- "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- "___ Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- "--- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- "*** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL). -For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier. -For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy. For further details, please request a copy of this document.

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Project Number: 000029-02.84 T-(01.001K) Project Manager: Ben Uhl <u>Report ID:</u> A3A0810 - 02 08 23 0645

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219
 Project:
 Gasco-T-50 DNAPL

 Project Number:
 000029-02.84 T-(01.001K)

 Project Manager:
 Ben Uhl

<u>Report ID:</u> A3A0810 - 02 08 23 0645

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

Apex Laboratories						
Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation	

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Anchor QEA, LLC	Project: Gasco-T-50 DNAPL	
6720 SW Macadam Ave. Suite 125 Portland OR 97219	Project Number: 000029-02.84 T-(01.001K) Project Manager: Ban Ubl	<u>Report ID:</u>
	Tojeet Wanager. Den Uni	A3A0810 - 02 08 23 0645
A	PEX LABS COOLER RECEIPT FORM	1/2
Client: Anthor DEA	Flement WOH A2 ADVID	12
Project/Project #:	$= \frac{1}{1-57} D (1AP) = \left(\frac{000014}{000014} - \frac{01}{0000} \right)$	
Delivery Info:	10 010110 (000 01-00-04 (01.001K)	and a second
Date/time received: 1/11/1/2 @	1140 Br - that I	
Delivered by: Apex Client ESS	FedEx LIPS Radio Morrow SDS E	
Cooler Inspection Date/time in:	spected: //ao/a.a. // avoid // avoid //a //a //a //a //a //a //a //a //a //	"ther
Chain of Custody included? Ves	X No	
Signed/dated by client? Ves		
Cooler	#1 Cooler #2 Cooler #2 Cooler #2 Cooler #2	
Temperature (°C) $\overrightarrow{D} \cdot \overrightarrow{S}$	<u>Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Co</u>	<u>20ler #7</u>
Custody seals? (Y/N)		
Received on ice? (Y/N)		
Temp. blanks? (Y/N)		
Ice type: (Gel/Real/Other) Gul		
Condition (In/Out): Th		
Cooler out of temp? (Y/N) Possible re Green dots applied to out of temperatu Out of temperature samples form initi Sample Inspection: Date/time insp	cason why: ure samples? Yes No ated? Yes No coted: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
All samples intact? Yes No	Comments:	
Bottle labels/COCs agree? Yes N	lo Comments:	
COC/container discrepancies form init	iated? Yes No V	
Containers/volumes received appropria	te for analysis? Yes Comments:	
Do VOA vials have visible headspace? Comments	Yes No NA	
Water samples: pH checked: Yes No	NA pH appropriate? Yes No NA	
Comments:		
Additional information:		
Labeled by: W	itness:	
	The Cooler Inspected by: The Source of the	R-00 -

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Anchor QEA, LLC	Project: Gasco-T-50 DNAPL	
6720 SW Macadam Ave. Suite 125	Project Number: 000029-02.84 T-(01.001K)	Report ID:
Portland, OR 97219	Project Manager: Ben Uhl	A3A0810 - 02 08 23 0645
Client:Arc_h Project/Project #: Delivery Info: Date/time received: Delivered by: Apex_A <u>Cooler Inspection</u> Chain of Custody inclu Signed/dated by client? Temperature (°C) Custody seals? (Y/N) Received on ice? (Y/N) Temp. blanks? (Y/N) Ice type: (Gel/Real/Oth Condition (In/Out): Cooler out of temp? (Y Green dots applied to o Out of temperature sam <u>Sample Inspection</u> : I All samples intact? Yes	APEX LABS COOLER RECEIPT FORM AD 810 AD 810 AD 810 OUD29 - 02.84 Fasco T-50 DNA PL 000029 - 02.84 X Addittiona Z[3/23 @ 1145 By: EST Client_ESS_FedEx_UPS, Radio_Morgan_SDS_Evergreen_Oth Date/time inspected: $2/3/23$ @ 1245 By: EST Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler 0:5	M2- -avc -213123 (D).801)=) il voluwest er
Bottle labels/COCs agree	e? Yes K No X Comments: Cooking How Middle Will	
COC/container discrepa Containers/volumes rec	ncies form initiated? Yes No $\underline{\times}$ eived appropriate for analysis? Yes $\underline{\times}$ No Comments:	
Do VOA vials have visi Comments Water samples: pH chec Comments:	ble headspace? Yes <u>No NA X</u> ked: Yes <u>No NA X</u> pH appropriate? Yes <u>No NA X</u>	
Additional information:		
Labeled by: AAW	Witness: Cooler Inspected by: $A \mathcal{H}_{Form Y-00}$	

Apex Laboratories

PRECISION PETROLEUM LABS, INC. CERTIFICATE OF ANALYSIS

LABORATORY ADDRESS 5915 Star Lane, Houston, TX 77057 Ph. 713-680-9425 Fax: 713-680-9564 Website: precisionlabs.org Client Name: Apex Laboratories Street Address: 6700 S.W. Sandburg Street City, State, Zip: Tigard, OR 97223

INVOICE No.	97153	DATE RECEIVED	02-07-2023
LAB REFERENCE No.	2023-02-129	DATE/TIME COLLECTED	02-03-2023@11:45
AUTHORIZED BY	Darwin Thomas	MATRIX TYPE	Liquid
PRODUCT ID	(A3A0810-01) T-50-01202023-6		

	TEST	REPORTING	TEST
PARAMETER	METHOD	LIMIT	RESULT
Heat of combustion, BTU/Lb.,	D-240	2,150	15,258

Daniel Zabihi QA Manager Date: 02-07-2023



ARIZONA LICENSE # AZ0630

QUALIFIERS & ABBREVIATIONS: BRL - Below Reporting Limit; SCL - Test performed by an approved subcontract laboratory; B - Analyte was detected in the associated method blank; Matrix spike/matrix spike duplicate (M), Laboratory control sample (L), Calibration criteria (C), and Surrogate (S) recoveries were outside acceptance limits. Test deviation applied to Method 8260 (VOCS). Sample date analyzed for each test is available upon request. *Not on laboratory's field of accreditation.

COMMENTS: This certificate is Confidential Business Information and will only be provided to designated customer point-of-contact(s). Other production of this report requires prior authorization from the customer. There were no quality assurance anomalies associated with these tests.

PRECISION PETROLEUM LABS, INC.'S RESPONSIBILITY FOR THE ABOVE ANALYSIS, OPINIONS OR INTERPRETATIONS IS LIMITED TO THE INVOICE AMOUNT. RESULTS ARE REPORTED ON AN "AS IS" BASIS, UNLESS OTHERWISE NOTED. THE TEST RESULTS RELATE ONLY TO THE SUBMITTED SAMPLE IDENTIFIED ON THIS REPORT. TEST RESULTS MEET ALL REQUIREMENTS OF NELAC FOR TESTS LISTED ON THE LABORATORY'S CURRENT FIELDS OF ACCREDITATION (EPA 1010, 6010, 8082, 8260, and 9075).

SUBCONTRACT ORDER

10

Apex Laboratories

A3A0810

SENDING LABORATORY:	RECEIVING LABORATORY:
Apex Laboratories	Precision Petroleum Labs
6700 S.W. Sandburg Street	5915 Star Lane
Tigard, OR 97223	Houston, TX 77057
Phone: (503) 718-2323	Phone :(713) 680-9425
Fax: (503) 336-0745	Fax: (713) 680-9564
Project Manager: Darwin Thomas	
Fax: (503) 336-0745 Project Manager: Darwin Thomas	Fax: (713) 680-9564

Sample Name: T-50-DNAPL-01202023	8	Liquid	Sampled: 01/20/23 10:15	(A3A0810-01)
Analysis	Due	Expires	Comments	
Subcontract Outside Containers Supplied:	02/10/23 17:00	07/19/23 10:15	Heat of combustion-btu/L	b by D-240
(A)8 oz Glass Jar				

3-day TAT

		PRECISI	B 07 2023 ON PETROLEUM ABS, INC.	
InAL	2/1/23	UPS (Shipper)	10=10 N.L.	
Released By UPS (Shipper)	Date	Received By	Date	
Released By	Date	Received By	Date	Page 1 of 1

2x8oz Jars received 2/3/23@1145 by ESJ & tim

RECEIVED