District I 1625 N. French Dr., Hobbs, NM 88240 District 11 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Form C-144

1220 South St. Francis Dr. Santa Fe, NM 87505. Mas

Oil Conservation Division 4 15 16 For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration of Closure

Is pit or below-grade tank covered by a "general plan"? Ves \(\subseteq \) No \(\subseteq \)

Type of action: Registration of a pit or below-grade tank \(\subseteq \) Closure of a pit or below-grade tank \(\subseteq \) e-mail address. Operator: Burlington Resources Telephone: (505) 326-9841 LHasely@br-inc.com Address: 3401 East 30th Street, Farmington, New Mexico, 87402 Facility or well name: Howell C Well No. 1 API #: 30045088110000 U/L or Qtr/Qtr B Sec 01 T 29N R 8W Longitude -107.9699 NAD: 1927 ☐ 1983 🔯 County: San Juan Latitude 36.50707 Surface Owner: Federal State Private Indian Pit Below-grade tank Type: Drilling Production Disposal Volume: 60 bbl Type of fluid: Produced Water and Incidental Oil Workover ☐ Emergency ☐ Construction material: Fiberglass Double-walled, with leak detection? Yes If not, explain why not. Lined Unlined Liner type: Synthetic Thickness mil Clay No. Tank in place prior to Rule 50. Pit Volume Less than 50 feet (20 points) Depth to ground water (vertical distance from bottom of pit to seasonal 50 feet or more, but less than 100 feet (10 points) high water elevation of ground water.) 0 100 feet or more (0 points) Yes (20 points) Wellhead protection area: (Less than 200 feet from a private domestic Nο (0 points) 20 water source, or less than 1000 feet from all other water sources.) Less than 200 feet (20 points) Distance to surface water: (horizontal distance to all wetlands, playas, 200 feet or more, but less than 1000 feet (10 points) irrigation canals, ditches, and perennial and ephemeral watercourses.) 1000 feet or more (0 points) 10 30 Ranking Score (Total Points) If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite 🛛 offsite 🔼 If offsite, name of facility <u>*Industrial Ecosystems Landfarm</u>. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No 🖾 Yes 🔲 If yes, show depth below ground surface______ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations. Additional Comments: Please note that Total Petroleum Hydrocarbons analyses by USEPA Methods 418.1 and 8021 are attached. * A total of 1740 cubic yards of soil were disposed of both onsite and offsite. Approximately 820 cubic yards of contaminated soil were disposed of onsite in two (2) onsite landfarms. Approximately 920 cubic yards of soil were disposed of offsite at Industrial Ecosystems Landfarm. I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines 🔲, a general permit 🔲, or an (attached) alternative OCD-approved plan 🗀. 3/14/05 Signature Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations. Approval: **GEPUTY OIL** & GAS INSPECTOR, DIST, 1888 Printed Name/Title Signature_

CLIENT: Burlington Resources	ENVIRONM 575 FARM	VIROTECH INC. ENTAL SCIENTISTS & ENGINEER 6 U.S. HIGHWAY 64-3014 INGTON, NEW MEXICO 87401 HONE: (505) 632-0615	s s	LOCATION NE	
FIELD REPOR	CT: CLOSU	JRE VERIF	ICATION	PAGE No:	of <u>61</u>
LOCATION: <u>name: Howel</u> QUAD/UNIT: SEC: QTR/FUUTAGE: 990 N	1 TWP: 29 N RNC	: 8 W PM: C		DATE STARTED: 2 DATE FINISHED: 2 ENVIRONMENTAL SPECIALIST:	1/27/05
EXCAVATION APPROX. 20 DISPOSAL FACILITY: On LAND USE:	site (see map)	REMEDIA	TION METHO	D: Landfar	
FIELD NOTES & REMAR DEPTH TO GROUNDWATER: \$\frac{30}{20}\$ NMOCD RANKING SCORE: 20	NEAREST WATER NMOCD TPH CLOSU	SOURCE: 2 1 000	_ NEAREST SURFAC		<u>o'</u> E_:
End of day 1 - excava	End of day 1 - excavation was 20' x 30' and 20' deep- totaling approx. 400 yd3 soil in NE comer and E wall of excavation still gray.				
Y			CALCULATIONS		
SCALE 0 FT	TIME SAMPLE I.C	LAB No: WEIGHT (g) ml. FREON DI	LUTION READING	CALC. ppm
PIT PERIMI	ETER-DAY	OVM RESULTS		PROFILE	1
zo' bench	15') 2 E 3 Nv 4 li' li 5 l5 7 ni 6 N 8 N 8 N 9 N 9 N 9 N 9 N 9 N 9 N 9 N 9	1011 207 1011. 948 bott. 570 1015 bott. 1015 bott. 765 Wall 15 1 bott 1000 2 bott 650		20'	20'
TRAVEL NOTES: CALLOUT:	···	ONSITE			

7	Envirotech Inc.	141
CLIENT: Burlington		LOCATION NO: CTT
Klsowies	ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64-3014 FARMINCTON, NEW MEXICO 87401 PHONE: (505) 632-0615	C.O.C. NO:
FIELD REPOF	T: CLOSURE VERIFICATION	ON PAGE No: Z of 67
LOCATION: NAME: HOWEL	C WELL #: PIT:	DATE STARTED: 1/20/05 DATE FINISHED: 0/27/05
QUAD/UNIT: SEC:	TWP: 79N RNG: 8W PM: CNTY: 8J S	ENVIRONMENTAL JLB
QTR/FOOTAGE: 410 N	1650E CONTRACTOR:	SPECIALIST: JLD
EXCAVATION APPROX. 49		CUBIC YARDAGE: 700 total
DISPOSAL FACILITY: <u>O</u>	SITE REMEDIATION M	ETHOD: Cana 15/1/1
	LEASE:	
FIELD NOTES & REMAR DEPTH TO GROUNDWATER: ~ 3		FT. 5 FROM WELLHEAD. SURFACE WATER: 300
NMOCD RANKING SCORE:	NMOCD TPH CLOSURE STD: <u>100</u> PPM	CHECK ONE :
SOIL AND EXCAVATION	N DESCRIPTION:	FIT ABANDONED STEEL TANK INSTALLED
Excavotion. Day 2 SCALE O FT PIT PERIM No dear to dear bench	SAMPLE FIELD HEADSPACE ID PID (ppm) :	the sidewalls at 20 10' depth searching for ONS
TRAVEL NOTES:		
CALLOUT:	ONSITE.	

Envirotech Inc. LOCATION NO. C# CLIENT: Bur lington VIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64-3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615 Resources C.D.C. ND: 351.2 FIELD REPORT: CLOSURE VERIFICATION PAGE No: 3 of DATE STARTED: 1/20/05 LOCATION: NAME: HOWELL C WELL #: 1 DATE FINISHED: 1/27/05 TWP: 24N RNG: 3W PM: CNTY: SJ STNM SEC: / QUAD/UNIT: ENVIRONMENTAL JLB QTR/FOOTAGE: 990 N 1650 E CONTRACTOR: SINER STAR EXCAVATION APPROX. 30 FT. x 55 FT. x 20 (Varies) DEEP. CUBIC YARDAGE: 1100 (total) DISPOSAL FACILITY: Onsite METHOD: Land Firm REMEDIATION LEASE: SF 074596 FORMATION: LAND USE: ... PIT LOCATED APPROXIMATELY 140 FT. FIELD NOTES & REMARKS: DEPTH TO GROUNDWATER: ~ 40 NEAREST WATER SOURCE: >1003 NEAREST SURFACE WATER: ~ 300 NMOCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD: 100 PPM SOIL AND EXCAVATION DESCRIPTION: approx. 300 yd 4/24/05 T STEEL TANK INSTALLED bench Soil in NW and SW corners still gray, soil in middle of east wall still gray at and of day. bench FIELD 418.1 CALCULATIONS TIME SAMPLE I.D. LAB No: WEIGHT (g) ml. FREON DILUTION READING CALC. ppm Clean bench 30 10:00 center (-23' 10.0 20 54 3240 SCALE 42 10:20 SW cor. (-23) 10.0 20 30 2520 10.0 20 38 11:45 South Wall FT OVM PIT PERIMETER PIT PROFILE RESULTS 4 depicts locations of SAMPS W COT (PROBATE) N .TPH Samples Ounter 1 through 5. EPFS PL LAB SAMPLES Depicts locations of TPH samples 14Mnugh 5. ANALYSIS 8201 B 8201B TRAVEL NOTES. CALLOUT: ONSITE:

CLIENT: Burlington		2.12	ROTEC	H INC.		FDC	N NOITA	D C #1
Resources	E	5796 U FARMING	AL SCIENTIST: J.S. HIGHWAY FON, NEW ME E: (505) 633	XICO 87401			C.O.C. N	D: 45
FIELD REPOR	RT: CLO	DSUF	RE V	ERIFIC	CATION	PAGE	= No: _	1 of 7
LOCATION: NAME: HOWELL							STARTED:	
QUAD/UNIT: SEC:						<u>M</u>	TINISHED: _ ONMENTAL ALIST:	1/27/05
QTR/FDDTAGE: 990N								
EXCAVATION APPROX34								•
DISPOSAL FACILITY: <u>Or</u> LAND USE:								
FIELD NOTES & REMAR								
DEPTH TO GROUNDWATER: ~ 86								
NMOCD RANKING SCORE: 20							ECK ON	
SOIL AND EXCAVATION	IN DESCRIPT	IDN:			1		ABANDON	
Continuation of	1/24/05-	Z add	litional	TPH S	iamples	V 51E.E	L TANK	INSTALLED
Locations sho					•			
of contamina	,	•	•					
OI COITAININA	TON TEACH	v a.						
¥			FIE	_D_418.1_CAI	LCULATIONS			
			LAB No:		mL. FREON			
SCALE	13:30 N-Wa		<u>4</u> 5	10.0	20.4	10	57	1140
O FT	101 20 14 100							
PIT PERIMI	ETER	R	OVM ESULT	S	PI	ΓPR	OFILE	i
A TOUC	1.1.1.1.	SAMPLE		EADSPACE (ppm)	a la .	<u> </u>	. 1	
IPH So	imple locations	1 2 3			See Pit	c Prof	ile o	n
N	/	4			pa	ge 3	of 7 ,	
		5			. 1	O		
् भ								
								<u> </u>
		LA:	B SAMPL	ES				
-	ļ	SAMPLE ID	ANALYSIS	TIME				•
	- - -							
TRAVEL NOTES: CALLOUT:				NSITE.				

DATE STATEC 0/2012 QUAD/UNIT: SEC: 1 TWP 29N RNG & N PM: CNTY: S.J. ST. NAM QUAD/UNIT: SEC: 1 TWP 29N RNG & N PM: CNTY: S.J. ST. NAM QUAD/UNIT: SEC: 1 TWP 29N RNG & N PM: CNTY: S.J. ST. NAM QUAD/UNIT: SEC: 1 TWP 29N RNG & N PM: CNTY: S.J. ST. NAM QUAD/UNIT: SEC: 1 TWP 29N RNG & N PM: CNTY: S.J. ST. NAM QUAD/UNIT: SEC: 1 TWP 29N RNG & N PM: CNTY: S.J. ST. NAM QUAD/UNIT: SEC: 1 TWP 29N RNG & N PM: CNTY: S.J. ST. NAM QUAD/UNIT: SEC: 1 TWP 29N RNG & N PM: CNTY: S.J. ST. NAM QUAD/UNIT: SEC: 1 TWP 29N RNG & NEW EXCAVATION APPROX. 50 FT. x 55 FT. x 20 FT. DEEP. CUBIC YARDAGE: 1500 th. DISPOSAL FACILITY: Onsite LEASE: SF 078596 FORMATION: FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 180 FT. 5° FROM WELLH DEPTH TO GROUNDWATER 500 NEAREST VATER SQURCE: 71000 NEAREST SUFFACE VATER 500' NMOCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD. 100 PPM SOIL AND EXCAVATION DESCRIPTION: Onsite landfarm filed today. Loads of contaminated soil have been taken to a landfarm located in Crouch Mesa: Farmington, NM. Soil will also taken to another well-located approx. 14 mix to the west- taken to another well-located approx. 14 mix to the west- taken to another well-located approx. 14 mix to the west- TIME SAMPLE ID LAB No: WEIGHT (3) Inc. FREON DILUTION READING CALC. P 10 SO EMAIL (15') 6 10.02 20.0 - S 10 O FT PIT PERIMETER OVM PIT PERIMETER OVM PIT PROFILE SAMPLE ID LAB No: WEIGHT (3) Inc. FREON DILUTION READING CALC. P 10 SO EMAIL (15') 1.6 NAME TO THE PROFILE SAMPLE ID LAB No: WEIGHT (3) Inc. FREON DILUTION READING CALC. P 11 YS WAIL 15' 1.6 NAME TO THE PROFILE A SAMPLE ID LAB No: WEIGHT (3) Inc. FREON DILUTION READING CALC. P 10 SO EMAIL (15') 6 10.02 20.0 - S 10 NAME TO THE PROFILE A SAMPLE ID LAB NO: WEIGHT (3) Inc. FREON DILUTION READING CALC. P 10 SO EMAIL (15') 1.6 NAME TO THE PROFILE A SAMPLE ID LAB NO: WEIGHT (3) Inc. TO THE PROFILE A SAMPLE ID LAB NO: WEIGHT (3) Inc. TO THE PROFILE A SAMPLE ID LAB NO: WEIGHT (3) Inc. TO THE PROFILE A SAMPLE ID LAB NO: WEIGHT (3) Inc. TO THE PROFILE A SAMPLE	CLIENT: Burlington Resources	ENVIRONMENTAI 5796 U. FARMINGT	COTECH INC. SCIENTISTS & ENGINEERS S. HIGHWAY 64-3014 N, NEW MEXICO 87401 : (505) 632-0615		C.O.C. NO:	<u></u>
QUAD/UNIT: SEC: TWP 29N RNG: 8 N PM: CNTY: SJ ST NM OTTO PRINCIPLE CONTRACTOR: SITY STATE CNTY: SJ ST NM OTTO PRINCIPLE CNTRACTOR: SITY STATE CNTY: SJ ST NM OTTO PRINCIPLE CNTRACTOR: SITY STATE CNTY: SJ ST NM OTTO PRINCIPLE CNTRACTOR: SITY STATE CNTY: SJ ST NM OTTO PRINCIPLE CNTY: SITY CNTY: SJ ST NM OTTO PRINCIPLE CNTY: SITY CNTY: SJ ST NM OTTO PRINCIPLE CNTY: SJ ST NM OTTO PRINCIPL	FIELD REPOR	T: CLOSUR	E VERIFICA	TION	PAGE No:	
EXCAVATION APPROX. 50 FT. x 55 FT. x 20 FT. DEEP CUBIC YARDAGE: 1500 to DISPOSAL FACILITY: Onsite REMEDIATION METHOD: Landfarm LAND USE: LEASE: SF 074596 FORMATION: FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 160 FT. 5° FROM WELLH DEPTH TO GROUNDWATER: 80° NEAREST VATER SOURCE: > 1000 NEAREST SUFFACE VATER: 300° NMOCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD: 100 PPH SOIL AND EXCAVATION DESCRIPTION: Onsite landfarm filked today. Loads of contaminated soil have been taken to a landfarm located in Crouch Mesa; Farmington, NM. Soil will also taken to another well- located apport. 14 mix to the west- Approx 400 ya3-01/25105, N, E, W walls at less than 100 ppm TPH at end of day. SCALE 10 SO EMAIL (15') 6 10.02 20.0 - 5 10 O FT PIT PERIMETER OVM RESULTS PIT PROFILE SAMPLE ID LAB NO: WEIGHT (g) mt. FREON DILUTION READING CALC. P 10 SO EMAIL (15') 6 10.02 20.0 - 5 10 O FT PIT PERIMETER OVM RESULTS PIT PROFILE SAMPLE ID LAB NO: WEIGHT (g) mt. FREON DILUTION READING CALC. P 10 SO EMAIL (15') 6 10.02 20.0 - 5 10 O FT PIT PERIMETER OVM RESULTS PIT PROFILE SAMPLE ID LAB NO: WEIGHT (g) mt. FREON DILUTION READING CALC. P 10 SO EMAIL (15') 6 10.02 20.0 - 5 10 O FT PIT PERIMETER OVM RESULTS PIT PROFILE SAMPLE ID LAB NO: WEIGHT (g) mt. FREON DILUTION READING CALC. P 10 SO EMAIL (15') 6 10.02 20.0 - 5 10 O FT PIT PERIMETER OVM RESULTS PIT PROFILE SAMPLE ID LAB NO: WEIGHT (g) mt. FREON DILUTION READING CALC. P 10 SO EMAIL (15') 6 10.02 20.0 - 5 10 O FT PIT PERIMETER OVM RESULTS PIT PROFILE				SJ ST:NM	DATE STARTED: 01/20/0	5 7
DISPOSAL FACILITY: Onsite LEASE: SF 078596 FORMATION: FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 160 FT. 5° FROM WELLH DEPTH TO GROUNDWATER ~ 80' NEAREST VATER SOURCE: 71000 NEAREST SUPFACE VATER: ~ 300' NMOCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD 100 PPM SOIL AND EXCAVATION DESCRIPTION: Onsite landfarm filled today. Loads of contaminated soil have been taken to a landfarm located in Crouch Mesa; farmington, NM. Soil will also taken to another well-located approx. '14 mik to the west- Approx 400 ya3-01/25105, N.E.W walls at less them 100 ppm TPH at end of day. SCALE 10:50 EMMI (15') 6 10:02 20.0 - 5 10 PIT PERIMETER RESULTS PIT PROFILE PIT PROFILE SMAPLE I.D. LAB NO: WEIGHT (9) mil FREON DILUTION READING CALC. P RESULTS PIT PROFILE SMAPLE I.D. LAB NO: WEIGHT (9) mil FREON DILUTION READING CALC. P RESULTS PIT PROFILE PIT PROFILE SMAPLE I.D. LAB NO: WEIGHT (9) mil FREON DILUTION READING CALC. P RESULTS PIT PROFILE SMAPLE I.D. LAB NO: WEIGHT (9) mil FREON DILUTION READING CALC. P RESULTS PIT PROFILE PIT PROFILE SMAPLE I.D. LAB NO: WEIGHT (9) mil FREON DILUTION READING CALC. P RESULTS PIT PROFILE SMAPLE I.D. LAB NO: WEIGHT (9) mil FREON DILUTION READING CALC. P RESULTS PIT PROFILE SMAPLE I.D. LAB NO: WEIGHT (9) mil FREON DILUTION READING CALC. P PIT PERIMETER RESULTS PIT PROFILE	QTR/FOOTAGE: 990 N	1 1650E CONTRA	CTOR: Silver Star		SPECIALIST: JLB	
DEPTH TO GROUNDWATER: ~80' NEAREST VATER SQURCE: > 1000 NEAREST SUPFACE VATER: ~300' NMOCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD: 100 PPM SDIL AND EXCAVATION DESCRIPTION: Onsite landfarm filled today. Loads of contaminated soil have been taken to a landfarm located in Croudh Mesa; Farmington, NM. Soil will also taken to another well-located approx. ' 4 mik to the west-laken to another well-located approx. ' 4 mik to the west-laken to another well-located approx. ' 4 mik to the west-laken to another well-located approx. ' 4 mik to the west-laken 100 ppm TPH at end of day. Approx 400 yd3- alloslos, N, E, W walls at less than 100 ppm TPH at end of day. SCALE 10:50 EMAII (15') 6 10:02 20:0 - 5 10 II'45 WWall 7 10:0 20:0 - 0 0 PT PIT PERIMETER RESULTS PIT PROFILE SAMPLE ID LOB NO: WEIGHT (g) mL FREON DILUTION READING CALC. P 10:50 EMAII (15') 6 10:02 20:0 - 5 10 II'45 WWall 7 10:0 20:0 - 0 0 A generation To a contaminated soil have PIT PROFILE PIT PROFILE OVM RESULTS PIT PROFILE OVM RESULTS PIT PROFILE	DISPOSAL FACILITY: Onsi	te	REMEDIATION	METHO:	D: Landfarm	\ <u>2</u>
SOIL AND EXCAVATION DESCRIPTION: Onsite landfarm filled today. Loads of contaminated soil have been taken to a landfarm located in Crouch Mesa; Farmington, NM. Soil will also taken to another well-located approx. ' 4 mik to the west- Approx 400 yd3-01/25/05, N.E.W walls at less than 100 gpm TPH at end of day. FIELD 418.1 CALCULATIONS FIELD 418.1 CALCULATIONS FIELD 418.1 CALCULATIONS FIELD 418.1 CALCULATIONS OFT OVM PIT PERIMETER RESULTS OVM PIT PROFILE RESULTS PIT PROFILE OVM PIT PROFILE OVM RESULTS PIT PROFILE OVM RESULTS PIT PROFILE						IAD.
been taken to a landfarm located in Crouch Mesa, farmington, NM. Soil will also taken to another well-located approx. '14 mile to the west. Approx 400 yd3-01/25/05, N.E.W walls at less than 100 ppm TPH at end of day. FIELD 418.1 CALCULATIONS TIME SAMPLE 1.D. LAB NO: WEIGHT (g) ml. FREON DILUTION READING CALC. p 10.50 EWall (15') 6 10.02 20.0 - 5 10 OFT PIT PERIMETER OVM RESULTS PIT PROFILE SAMPLE PROSPACE PRO (ppm) 1 E Well (15') 1.0 2 N Wall 1 10.0 THE PROFILE SAMPLE PROSPACE PRO (ppm) 1 E Well (15') 1.0 2 N Wall 15' 1.0 3 TO THE PROFILE	SOIL AND EXCAVATIO	N DESCRIPTION:		<u> </u>	PIT ABANDONED	_ED
SAMPLE FIELD HEADSPACE PID (ppm) IE Well (15) 1.0 2N Wall (15) 1.6 3 excavation 20 X 20 X 20 X 30 X 4 5 X 4 5 X A A A B B C C C C C C C C C C C	taken to another we Approx 400 ya3-oil. SCALE O FT	TIME SAMPLE I.D. I 10:50 EWall 11:45 NWall	FIELD 418.1 CALCUAB No: WEIGHT (g) ml 6 10.02 2 OVM	JLATIONS FREON DIE 20.0	LUTION READING CALC. PR	
tank Still hot Sample Analysis Time 50' Relineal day TRAVEL NOTES:	GET SEL	SAMPLE SAMPLE 1E Wall 2N Wall 3 4 5	FIELD HEADSPACE PID (ppm) 1. O	N 755'	•	

		•
CLIENT: Burlington	Envirotech Inc	LOCATION NO: C#1
Resources	ENVIRONMENTAL SCIENTISTS & ENGINEE 5796 U.S. HIGHWAY 64-3014	9
	FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615	O.B.C. N.B.
FIELD REPOF	CT: CLOSURE VERIF	ICATION PAGE No: 6 of 7
LOCATION: NAME: HOWELL		DATE STARTED: 01/20/05
QUAD/UNIT: SEC:	_	
	11,50E CONTRACTOR: Silver	
EXCAVATION APPROX. 55	FT. x 55 FT. x 20 (Value)	DEEP. CUBIC YARDAGE: 1700 TOTAL
DISPOSAL FACILITY: On	site (full) - 3 Crouch Mesa REMEDIA	ATION METHOD: AND Landfarm
LAND USE:	Landfarm SF 07859 LEASE: SF 07859	6 FORMATION:
FIELD NOTES & REMAR	CKS: PIT LOCATED APPROXIMATELY	140 FT. 5° FROM WELLHEAD.
DEPTH TO GROUNDWATER: - 80		
NMOCD RANKING SCORE: 20	NMOCD TPH CLOSURE STD: PPN	CHECK ONE :
SOIL AND EXCAVATION	N_DESCRIPTION:	PIT ABANDONED STEEL TANK INSTALLED
· Clean soil is being st	ock-piled to the East of the excav	ation.
· Belly dumps 3 a tam	lem are hauling contaminated soil	to Crouch Mesa landfarm.
. At healinning of day, W	ost wall 3. SW corner still hot,	
3 114	1	
200 yd3 excavated to	day	
		CALCULATIONS (g) ml. FREON DILUTION READING CALC. ppm
SCALE	TIME SAMPLE I.D. LAB No: WEIGHT 10:50 W Wall 8 10.0	
SCALE	12:20 NW Corner 9 10.0	
O FT	SW corner 10	
PIT PERIM	ETER OVM RESULTS	PIT PROFILE
	SAMPLE FIELD HEADSPACE ID PID (ppm)	
B	N 2NW CO	*
TO THE PARTY OF TH		N
bench!	Sample 35W cor 5	8 . 9 55
	2 8 P/L	
excavation	bench 31	20
still hut at and	(back- Filled)	
pump of day	LAB SAMPLES SAMPLE S ANALYSIS TIME	
bench ;		+
(tank)		55′
1 Q Well head		
TRAVEL NOTES: CALLOUT:	ONSITE.	

CLIENT: BUYlington		Enviro	ECH INC.		LOCATION N	0.C#1
Resources		ENVIRONMENTAL SCI	ENTISTS & ENGINEERS		C.O.C. N	
		FARMINGTON, N	GHWAY 64-3014 EW MEXICO 87401 5) 632-0615		C.U.C. IV	U'
FIELD REPOR	eT: CL	OSURE	VERIFIC	CATION	PAGE No:	7 of _ 7
LOCATION: NAME: Howell	2	WELL #:	PIT:		DATE STARTED:	
QUAD/UNIT: SEC:	1 TWP:291	V RNG: 8W	PM: CNT	MY:SJ ST:NM		11/21/05
QTR/FOOTAGE: 990N	1650 E	CONTRACTO	R: Silver Sta	ar	ENVIRONMENTAL SPECIALIST:	JLB_
EXCAVATION APPROX 50	7 FT. x	55_ FT. x	20 Varies	CEP CUBIC	YARDAGE. A	740 Tota
DISPOSAL FACILITY: On			ch) PEMEDIAT		D: Landfari	
LAND USE:					RMATION:	<u>·</u>
					TOWN	
FIELD NOTES & REMAR DEPTH TO GROUNDWATER: _ \$0	KS: PIT L	DCATED APPR	ROXIMATELY _/	180 FT.		, WELLHEAD
				NEAREST SURFAC		
NMOCD RANKING SCORE: 20					CHECK ON PIT ABANDON	
SOIL AND EXCAVATION	N DESCRIP	TION:			_ STEEL TANK	
				L		
,			FIELD 418.1 CA			T
,		IPLE I.D. LAB		 	LUTION READING	CALC. ppm
SCALE	13.40 SW	corner 10	10.0	20.0		1
O FT						
PIT PERIMI	TTER		VM_	PIT	PROFILE	!
	11310	RESU		1 1 1	TROFILE	,
	.	15W corner	FIELD HEADSPACE PID (ppm) 2 (15')	N		
weter .	1	2			55'	
· E	1	4				
	,	5		Ť		7
	i					
8 / 8	7/-			Ze'		
ALLESS	EPPS P/L-			1)	
10/	ia Ia	SAMPLE ANA	AMPLES LYSIS TIME	(10	<i>y</i>	\bigvee
	ا	JD ANA	LIME	ا ا	— 55' <u>—</u>	
TPH So	imbr ;	 			ਹ) —	٦
1 QWH						
TRAVEL NOTES:			ONGITE			
CALLOUT:			ONSITE.			



Client:

Burlington Resources

Project #:

92115-023

Sample No.:

1

Date Reported:

2/11/2005

Sample ID:

Center, 3' Below Maximum

Date Sampled:

1/24/2005

Depth @ 23'

Date Analyzed:

1/24/2005

Sample Matrix:

Soil

Analysis Needed:

TPH-418.1

Preservative:

Cool

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

3,240

150

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Howell C # 1

Instrument callibrated to 200 ppm standard. Zeroed before each measurement.

Anadyst



Client:

Burlington Resources

Project #:

92115-023

Sample No.:

2

Date Reported:

2/11/2005

Sample ID:

Southwest Corner, 3' Below Maximum Depth @ 23'

Date Sampled:

1/24/2005

Sample Matrix:

Soil

Date Analyzed: Analysis Needed: 1/24/2005 TPH-418.1

Preservative:

- .

rvative: Cool

Condition:

Cool and Intact

		Det.
,	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

2,520

150

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Howell C # 1

Instrument callibrated to 200 ppm standard. Zeroed before each measurement.

Analyst



Client:

Burlington Resources

Project #:

92115-023

Sample No.:

3

Date Reported:

2/11/2005

Sample ID:

Southwest Wall @ 12' Soil

Date Sampled: Date Analyzed:

1/24/2005

Sample Matrix: Preservative:

Cool

Analysis Needed:

1/24/2005 TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

38.0

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Howell C # 1

t BA

Instrument callibrated to 200 ppm standard. Zeroed before each measurement.

Analyst



Client:

Burlington Resources

Project #:

92115-023

Sample No.:

4

Date Reported:

2/11/2005

Sample ID:

North Wall @ 15' Soil Date Sampled:

1/24/2005

Sample Matrix: Preservative:

Cool

Date Analyzed:
Analysis Needed:

1/24/2005 TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

1,140

50

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Howell C # 1

£ \$ A

Instrument callibrated to 200 ppm standard. Zeroed before each measurement.

Analyst



Client:

Burlington Resources

Project #:

92115-023

Sample No.:

5

Date Reported:

2/11/2005

Sample ID:

North Wall @ 15' Soil Date Sampled: Date Analyzed:

1/24/2005

Sample Matrix: Preservative:

Cool

Analysis Needed:

1/24/2005 TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

20.0

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Howell C # 1

Instrument callibrated to 200 ppm standard. Zeroed before each measurement.

Analyst



Client:

Burlington Resources

Project #:

92115-023

Sample No.:

6

Date Reported:

2/11/2005

Sample ID:

East Wall @ 15'

Date Sampled:

1/25/2005

Sample Matrix:

Soil

Date Analyzed:

1/25/2005

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
·	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

10.0

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Howell C # 1

Instrument callibrated to 200 ppm standard. Zeroed before each measurement.

Analyst



Client:

Burlington Resources

Project #:

92115-023

Sample No.:

7

Date Reported:

2/11/2005

Sample ID:

North Wall @ 15'

Date Sampled:

1/25/2005

Sample Matrix:

Soil

Date Analyzed:

1/25/2005

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

ND

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Howell C # 1

Instrument callibrated to 200 ppm standard. Zeroed before each measurement.

Analyst



Client:

Burlington Resources

Project #:

92115-023

Sample No.:

8

Date Reported:

2/11/2005

Sample ID:

West Wall @ 15'

Date Sampled:

1/26/2005

Sample Matrix:

Soil

Date Analyzed:

1/26/2005

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

ND

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Howell C # 1

Instrument callibrated to 200 ppm standard. Zeroed before each measurement.

Analyst



Client:

Burlington Resources

Project #:

92115-023

Sample No.:

9

Date Reported:

2/11/2005

Sample ID:

Northwest Corner @ 15'

Date Sampled:

1/26/2005

Sample Matrix:

Soil

Date Analyzed:

1/26/2005

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

ND

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Howell C # 1

Instrument callibrated to 200 ppm standard. Zeroed before each measurement.

Analyst



Client:

Burlington Resources

Project #:

92115-023

Sample No.:

10

Date Reported:

2/11/2005

Sample ID:

Southwest Corner @ 15'

Date Sampled:

1/27/2005

Sample Matrix:

Soil

Date Analyzed:

1/27/2005

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

ND

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Howell C # 1

Instrument callibrated to 200 ppm standard. Zeroed before each measurement.

Analyst



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

			٠
Client:	Burlington Resources	Project #:	92115-023
Sample ID:	Center of Pit	Date Reported:	01-25-05
Laboratory Number:	31746	Date Sampled:	01-24-05
Chain of Custody:	13512	Date Received:	01-24-05
Sample Matrix:	Soil	Date Analyzed:	01-25-05
Preservative:	Cool	Date Extracted:	01-25-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	109	2.1	
Toluene	218	1.8	
Ethylbenzene	3,580	1.7	
p,m-Xylene	1,410	1.5	
o-Xylene	484	2.2	
Total BTEX	5,800		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	94.0 %
	1,4-difluorobenzene	94.0 %
	Bromochlorobenzene	94.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Gobernador - Howell C #1 23' depth.

Musline of Walt

Analyst



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

			•
Client:	Burlington Resources	Project #:	92115-023
Sample ID:	Corner of Pit	Date Reported:	01-25-05
Laboratory Number:	31747	Date Sampled:	01-24-05
Chain of Custody:	13512	Date Received:	01-24-05
Sample Matrix:	Soil	Date Analyzed:	01-25-05
Preservative:	Cool	Date Extracted:	01-25-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

		Det.	
Parameter	Concentration	Limit	
	(ug/Kg)	(ug/Kg)	
Benzene	110	2.1	
Toluene	1,360	1.8	
Ethylbenzene	9,550	1.7	
p,m-Xylene	3,770	1.5	
o-Xylene	1,510	2.2	
Total BTEX	16,300		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
,	Fluorobenzene	94.0 %
	1,4-difluorobenzene	94.0 %
	Bromochlorobenzene	94.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Gobernador - Howell C #1 23' depth.

Analyst C. Cal

/ Mixture of Wasters