

District I
1625 N. French Dr., Hobbs, NM 88240
District II
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
March 12, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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 or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☐

Operator: Dugan Production Corp. Telephone: 505-325-1321 e-mail address: MARTY FORTZ @ Dugan Production . Com
Address: P.O. Box 420 Farmington N.M. 87499
Facility or well name: SLY Slav Cim 35 API #: 30045-3946 U/L or Qtr/Qtr F Sec 13 T 30N R 15W
County: Santa Fe Co Latitude 36° 81' 58.3 Longitude 108° 81' 58.3 NAD: 1927 ☐ 1983 ☐ Surface Owner Federal ☐ State ☒ Private ☐ Indian ☐

Pit	Below-grade tank
Type: Drilling ☒ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ Liner type: Synthetic ☒ Thickness <u>12</u> mil Clay ☐ Volume _____ bbl	Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes ☐ If not, explain why not: _____
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet (20 points) 50 feet or more, but less than 100 feet (10 points) 100 feet or more (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes (20 points) No (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet (20 points) 200 feet or more, but less than 1000 feet (10 points) 1000 feet or more (0 points)
Ranking Score (Total Points) <u>10</u>	

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:

onsite ☒ offsite ☐ If offsite, name of facility _____ (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.

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 ☐.

Date: 9-7-04

Printed Name/Title MARTY FORTZ Production Manager Signature M. Fortz

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: OCT 26 2004

Date: DEPUTY DIR. & GAS RESOURCES DIST. #3

Printed Name/Title _____ Signature Denny Fortz

30-045-31946

State

CLIENT: DUGAN
PROD. CORP.BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: _____

COCR NO: 11686

FIELD REPORT: PIT CLOSURE VERIFICATION

PAGE No: 1 of 1LOCATION: NAME: SLX SLAV COM WELL #: 3S TYPE: RESERVEDATE STARTED: 7-14-04

DATE FINISHED: _____

QUAD/UNIT: F SEC: 13 TWP: 30N RNG: 15 W PM: NM CNTY: SJ ST: NM

QTR/FOOTAGE: _____

CONTRACTOR: _____

ENVIRONMENTAL
SPECIALIST: JCBEXCAVATION APPROX. NA FT. x NA FT. x NA FT. DEEP. CUBIC YARDAGE: 0

DISPOSAL FACILITY: _____

REMEDATION METHOD: _____

LAND USE: RANGELEASE: FEE

FORMATION: _____

FIELD NOTES & REMARKS:

PIT LOCATED APPROXIMATELY 24 FT. N43W FROM WELLHEAD.DEPTH TO GROUNDWATER: >50 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION:

OVM CALIB. READ. = _____ ppm
OVM CALIB. GAS = _____ ppm RF = 0.52
TIME: _____ am/pm DATE: _____

SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____

SOIL COLOR: _____

COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE

CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED

DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - _____

HC ODOR DETECTED: YES / NO EXPLANATION - _____

SAMPLE TYPE: GRAB COMPOSITE # OF PTS. 4

ADDITIONAL COMMENTS: _____

PVC LINED DRILLING RESERVE PIT. LIQUIDS REMOVED.
COLLECT 4 POINT COMPOSITE SAMPLE OF MUD.
75' x 12' x 6' DEEP

SCALE

0
↑
N
1
FT

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

PIT PERIMETER

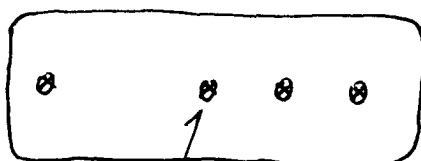
PIT PROFILE

OVM
READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @	
2 @	
3 @	
4 @	
5 @	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
4-PE	TPH-BTEL	1450
	B RCRA	
	CL	
	EC-ESP-SAR	

COMPOSITE
SAMPLE
LOCATION

E-W

10'

FAILS ON SALTS

P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW
T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM

TRAVEL NOTES:

CALLOUT: _____

ONSITE: 7-14-04

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

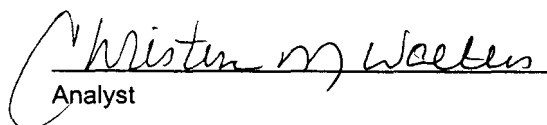
Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Sly Slav Com 3S	Date Reported:	07-16-04
Laboratory Number:	29560	Date Sampled:	07-14-04
Chain of Custody No:	11686	Date Received:	07-15-04
Sample Matrix:	Soil	Date Extracted:	07-15-04
Preservative:	Cool	Date Analyzed:	07-16-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

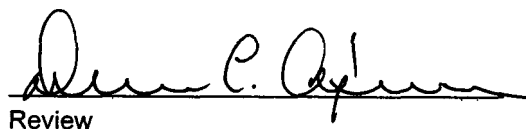
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.5	0.2
Diesel Range (C10 - C28)	49.2	0.1
Total Petroleum Hydrocarbons	51.7	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Reserve Pits.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Sly Slav Com 3S	Date Reported:	07-16-04
Laboratory Number:	29560	Date Sampled:	07-14-04
Chain of Custody:	11686	Date Received:	07-15-04
Sample Matrix:	Soil	Date Analyzed:	07-16-04
Preservative:	Cool	Date Extracted:	07-15-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	17.5	1.7
Ethylbenzene	8.4	1.5
p,m-Xylene	14.8	2.2
o-Xylene	1.7	1.0
Total BTEX	42.4	

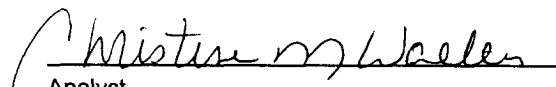
ND - Parameter not detected at the stated detection limit.

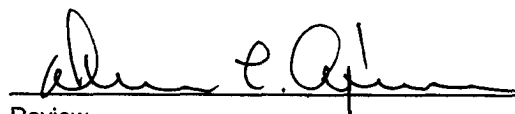
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	100 %
	1,4-difluorobenzene	100 %
	Bromochlorobenzene	100 %

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: Reserve Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

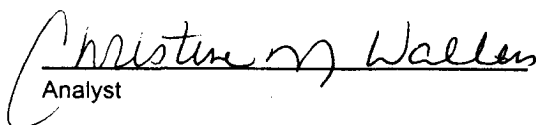
EC, SAR, ESP, CI Analysis

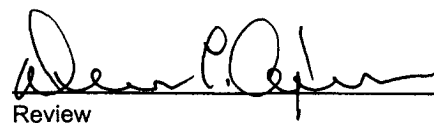
Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Sly Slav Com 3S	Date Reported:	07-16-04
Laboratory Number:	29560	Date Sampled:	07-14-04
Chain of Custody:	11686	Date Received:	07-15-04
Sample Matrix:	Soil	Date Extracted:	07-15-04
Preservative:	Cool	Date Analyzed:	07-16-04
Condition:	Cool & Intact		

Parameter	Analytical Result	Units
Conductivity @ 25° C	3.210	mmhos/cm
Calcium	24.8	mg/Kg
Magnesium	<0.1	mg/Kg
Sodium	1,160	mg/Kg
Sodium Absorption Ratio (SAR)	64.0	ratio
Exchangeable Sodium Percent (ESP)	48.0	percent
Chloride	587	mg/Kg

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments: Reserve Pit, 4 - Point Composite.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Sly Slav Com 3 S	Date Reported:	07-19-04
Laboratory Number:	29560	Date Sampled:	07-14-04
Chain of Custody:	11686	Date Received:	07-15-04
Sample Matrix:	Soil	Date Analyzed:	07-19-04
Preservative:	Cool	Date Digested:	07-16-04
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.004	0.001	5.0
Barium	0.144	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.001	0.001	5.0
Lead	0.001	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.002	0.001	1.0
Silver	ND	0.001	5.0

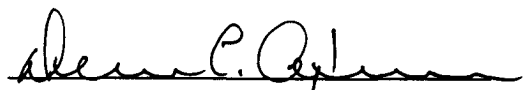
ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Reserve Pit 4-Point Composite.**


Analyst


Review

CHAIN OF CUSTODY RECORD

11686

Client / Project Name		Project Location		ANALYSIS / PARAMETERS										Remarks					
BLAGG / DUGAN		RESERVE PIT																	
Sampler:		Client No.		Lab Number		Sample Matrix		No. of Containers		TPH	BO15	BTEX	BO21	8 RCA	CHLORIDE	EC, ESP, SAR			
Sample No./ Identification	Sample Date	Sample Time																	
CAMP DAVID COM 18	7-14-04	1200	29554	SOLID				1	X	X	X	X	X	X	X	X	4-Point Composite		
POLES PARADISE 90	"	1305	29555	"				1	X	X	X	X	X	X	X	X	"		
NICE COM 90	"	1320	29556	"				1	X	X	X	X	X	X	X	X	"		
POLES PARADISE 91	"	1355	29557	"				1	X	X	X	X	X	X	X	X	"		
SLV SLAV COM 90S	"	1420	29558	"				1	X	X	X	X	X	X	X	X	"		
SLV SLAV COM 90	"	1440	29559	"				1	X	X	X	X	X	X	X	X	"		
SLV SLAV COM 3S	"	1450	29560	"				1	X	X	X	X	X	X	X	X	"		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Time		Date		Time		Date		Time		Date		Time	
Jeff Blagg		7/15/04	0931	[Signature]		0931		7/15/04		9:31		7/15/04		9:31		7/15/04		9:31	
Relinquished by: (Signature)				Received by: (Signature)															
Relinquished by: (Signature)				Received by: (Signature)															
Relinquished by: (Signature)				Received by: (Signature)															

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt			
Y	N	N/A	
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-16-TPH QA/QC	Date Reported:	07-16-04
Laboratory Number:	29551	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-16-04
Condition:	N/A	Analysis Requested:	TPH

	Lab Date	Lab Result	Client Result	% Difference	Accept. Range
Gasoline Range C5 - C10	02-19-04	1.8591E-002	1.8572E-002	0.10%	0 - 15%
Diesel Range C10 - C28	02-19-04	1.5507E-002	1.5492E-002	0.10%	0 - 15%

Blank Conc. (mg/L)	mg/L/Kg	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

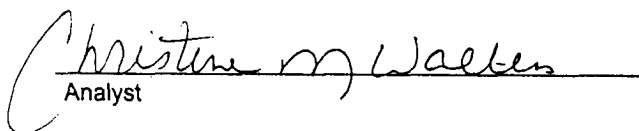
Duplicate Conc. (mg/L)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

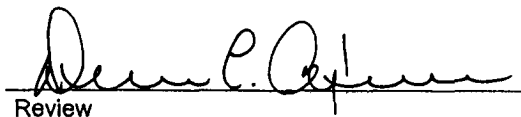
Spike Conc. (mg/L)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for samples 29551 - 29552 and 29554 - 29560.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	07-16-BTEX QA/QC	Date Reported:	07-16-04
Laboratory Number:	29551	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-16-04
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	GC/MS	GC/MS	%RSD	Blank	Detect
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Benzene	4.2776E-002	4.2905E-002	0.3%	ND	0.2
Toluene	4.8966E-002	4.9064E-002	0.2%	ND	0.2
Ethylbenzene	7.4036E-002	7.4259E-002	0.3%	ND	0.2
p,m-Xylene	6.8275E-002	6.8480E-002	0.3%	ND	0.2
o-Xylene	5.5866E-002	5.5978E-002	0.2%	ND	0.1

Duplicate Conc. (ug/L)	Sample	Duplicate	%RSD	Acceptable Range	Detect Limit
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Benzene	3.2	3.3	3.1%	0 - 30%	1.8
Toluene	38.9	38.2	1.8%	0 - 30%	1.7
Ethylbenzene	35.9	35.2	1.9%	0 - 30%	1.5
p,m-Xylene	73.2	75.4	3.0%	0 - 30%	2.2
o-Xylene	30.3	31.2	3.0%	0 - 30%	1.0

Spike Conc. (ug/L)	Sample	Spiked Sample	Spiked Sample	% Recovery	Acceptable Range
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Benzene	3.2	50.0	53.1	99.8%	39 - 150
Toluene	38.9	50.0	88.7	99.8%	46 - 148
Ethylbenzene	35.9	50.0	85.8	99.9%	32 - 160
p,m-Xylene	73.2	100	173	100.0%	46 - 148
o-Xylene	30.3	50.0	80.1	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for samples 29551 - 29552 and 29554 - 29560.

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-19-04 QA/AC	Date Reported:	07-19-04
Laboratory Number:	29554	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	07-19-04
Condition:	N/A	Date Digested:	07-16-04

Blank (ppm)	Method	Blank	Blank	Sample	Sample	Blank	Acceptable
Concentration	Blank	Blank	Blank	Sample	Sample	Blank	Range
Arsenic	ND	ND	0.001	0.004	0.004	0.0%	0% - 30%
Barium	ND	ND	0.001	0.136	0.135	0.7%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Lead	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

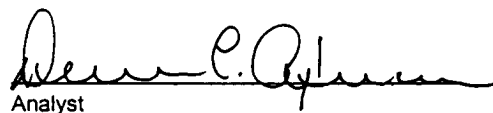
Spike	Spiked	Spiked	Spiked	Recovery	Acceptable
Concentration	Spiked	Spiked	Spiked	Recovery	Range
Arsenic	0.500	0.004	0.503	99.8%	80% - 120%
Barium	0.500	0.136	0.635	99.8%	80% - 120%
Cadmium	0.500	ND	0.500	100.0%	80% - 120%
Chromium	0.500	0.001	0.501	100.0%	80% - 120%
Lead	0.500	0.001	0.500	99.8%	80% - 120%
Mercury	0.050	ND	0.050	100.0%	80% - 120%
Selenium	0.500	0.002	0.501	99.8%	80% - 120%
Silver	0.500	ND	0.500	100.0%	80% - 120%

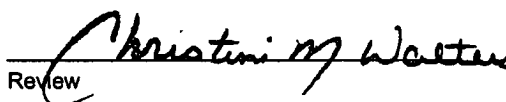
ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Comments: QA/QC for samples 29554 - 29560.


Analyst


Review