

HUNGRY HORSE, LLC
ENVIRONMENTAL SERVICES

Dirt Work * On-Site Remediation * Soil Testing * Excavation

31Oct08

DENIED

TO: Sherry Bonham
NMOCD District II, Artesia
REFERENCE: Remediation Work Plan

OPERATOR: OXY USA
LOCATION: Pure Gold A Federal #8
API: 30-015-35296
LEGALS: UL F, SEC. 21, T23S, R31E
GPS: N32 17.508 W103 47.118
DEPTH to GROUND WATER: 100' (According Eddy to Depth to Ground Water Map)

General Site Characteristics: The release from the tank battery at this location affected areas in the pasture to the south and to the west of the battery as well as the area inside the berm. The area to the south has very low contaminant levels and is contained to a small area (approx 40' x 40'). The area to the west of the road was contained to a very small area (approx 30' x 30') due to the contour of the land.

Site ranking Score: 0 Depth to groundwater is >100', There is not a water source or domestic well within 1000'. There is no surface body of water within 1000'.

Soil Remediation Action Levels: Since Benzene, BTEX, and TPH are good according to the ranking criteria, remediation of the contaminants to the OCD acceptable level can be easily achieved. In the delineation process, chloride levels are shown to drop rather quickly due the presence of clay at approximately 10'BGS.

Delineation: Lab results are included with this plan.

Sketch of Affected Area: A sketch (not drawn to scale) is included to be used in conjunction with the lab results and sample points.

Work Plan Proposal: For the affected area south of the battery: Sample point #1-due to very low concentrations, we propose to blend the surface soil with the deeper soil to eliminate discoloration. Sample #2- due to contaminant concentration at the surface only, we propose to blend this soil in with the deeper soil until we achieve a chloride concentration of <250ppm. For the area west of the battery: Sample point #3- due to the chloride level dropping rather quickly from the surface downward, we propose excavating two feet from this area, lining it with a 20mil liner, and backfilling with like material.



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For the area inside the battery, Sample points 4&5: Since this is an active battery and through delineation we have determined the depth to which the contaminants traveled, we propose to remove one foot of soil from inside the entire battery, backfill with clean caliche, line it with a 20mil liner, up to the tanks and around all lines and obstacles, and backfill with gravel.

Notes/Comments: _____

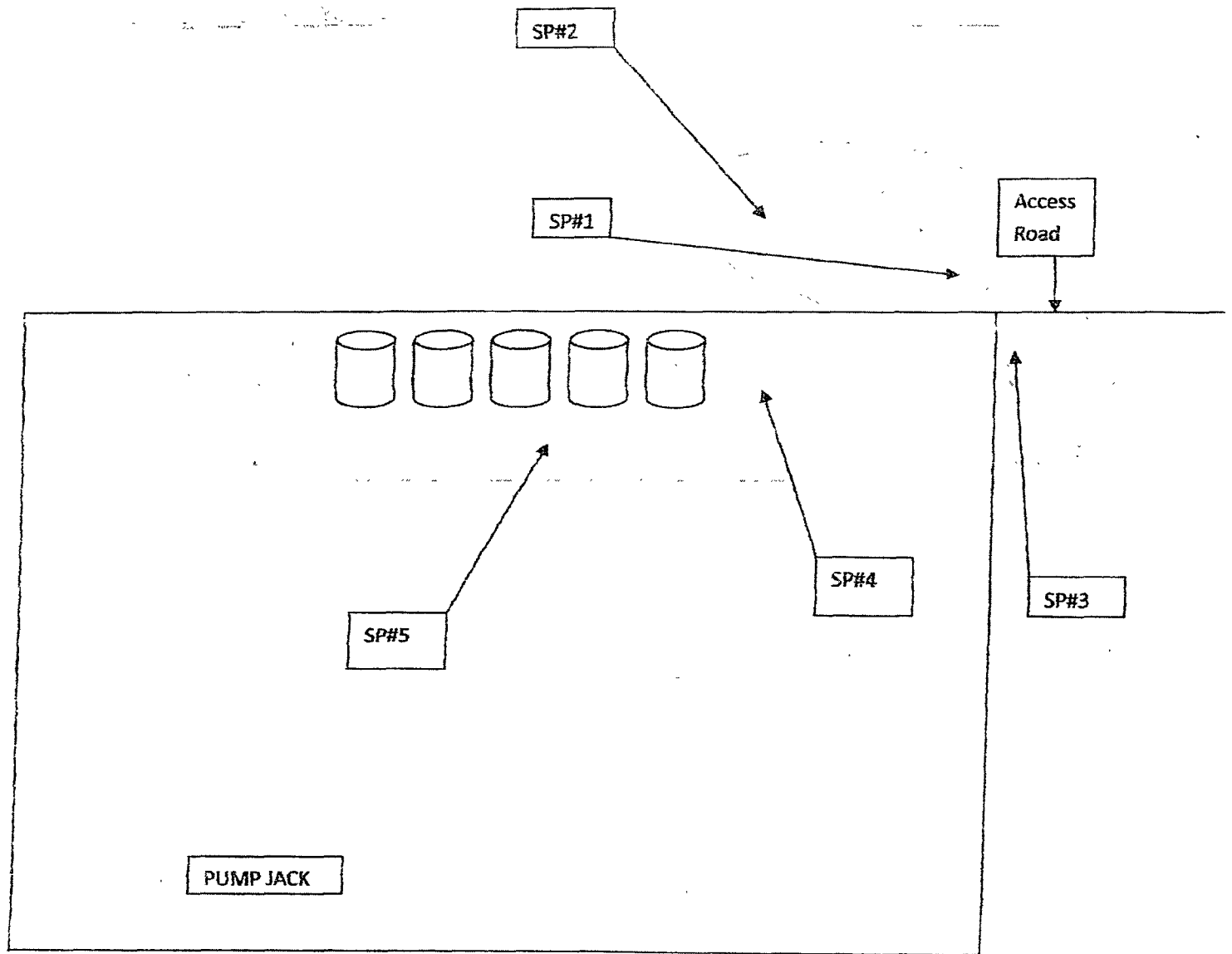
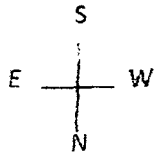
Submitted By: Vernon K. Black, Hungry Horse Environmental Services

Signature: 

OCD Approval By: _____

Signature: _____

Date: _____



Note: Drawing note to Scale



ARDINAL LABORATORIES

PHONE (575) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

HUNGRY HORSE ENVIRONMENTAL SERVICES
ATTN: VERNON K. BLACK
P.O. BOX 1058
HOBBS, NM 88241
FAX TO: (575) 391-4585

Receiving Date: 10/22/08
Reporting Date: 10/29/08
Project Owner: OXY USA
Project Name: PURE GOLD A FED #8
Project Location: EDDY COUNTY, NM

Sampling Date: 10/20/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

LAB NUMBER SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE	10/28/08	10/28/08	10/28/08	10/28/08
H16185-9 SP#3 13' BGS	<0.050	<0.050	<0.050	<0.300
H16185-10 SP#4 SURFACE	<0.050	0.068	0.063	0.476
H16185-11 SP#4 5' BGS	<0.050	<0.050	<0.050	0.304
H16185-12 SP#4 8' BGS	<0.050	<0.050	<0.050	0.383
H16185-13 SP#4 10' BGS	<0.050	<0.050	<0.050	<0.300
H16185-14 SP#5 SURFACE	2.08	26.5	18.1	76.4
H16185-15 SP#5 1' BGS	<0.050	0.143	0.122	0.683
H16185-18 SP#5 3' BGS	<0.050	<0.050	<0.050	<0.300
H16185-17 SP#5 5' BGS	<0.050	<0.050	<0.050	<0.300
Quality Control	0.045	0.050	0.051	0.156
True Value QC	0.050	0.050	0.050	0.150
% Recovery	90.0	100	102	104
Relative Percent Difference	16.3	1.0	0.8	1.3

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.

Chemist

Date

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ANALYTICAL RESULTS FOR
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HOBBS, NM 88241
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Project Location: EDDY COUNTY, NM

Sampling Date: 10/20/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (C ₁₀ -C ₂₈) (mg/kg)	CI* (mg/kg)
		10/23/08	10/23/08	10/23/08
H16185-14	SP#5 SURFACE	4,240	15,800	1,480
H16185-15	SP#5 1' BGS	<10.0	<10.0	2,360
H16185-16	SP#5 3' BGS	<10.0	<10.0	80
H16185-17	SP#5 5' BGS	<10.0	<10.0	48
Quality Control		559	518	510
True Value QC		500	500	500
% Recovery		112	103	102
Relative Percent Difference		9.0	4.7	2.0

METHODS: TPH GRO & DRO, EPA SW-846 8015 M; CI* Std. Methods 4500-CIB

*Analyses performed on 1:4 w.v aqueous extracts.


Chemist


Date

H16185 TCL HHE

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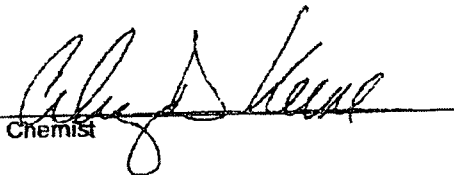
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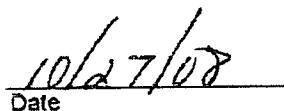
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Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	CI ^a (mg/kg)
		10/23/08	10/23/08	10/23/08
H16165-1	SP#1 SURFACE	<10.0	<10.0	98
H16165-2	SP#1 2' BGS	<10.0	30.1	48
H16165-3	SP#2 SURFACE	427	14,800	2,240
H16165-4	SP#2 2' BGS	28.8	31.3	32
H16165-5	SP#3 SURFACE	<10.0	37.6	9,800
H16165-6	SP#3 5' BGS	<10.0	<10.0	5,840
H16165-7	SP#3 10' BGS	<10.0	<10.0	3,920
H16165-8	SP#3 12' BGS	<10.0	<10.0	432
H16165-9	SP#3 13' BGS	<10.0	78.8	432
H16165-10	SP#4 SURFACE	10.9	46.4	4,720
H16165-11	SP#4 5' BGS	<10.0	10.2	1,410
H16165-12	SP#4 8' BGS	27.8	341	2,280
H16165-13	SP#4 10' BGS	<10.0	<10.0	288
Quality Control		538	486	510
True Value QC		500	500	500
% Recovery		108	97.2	102
Relative Percent Difference		4.5	1.7	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI^a Std. Methods 4500-CI^B
^aAnalyses performed on 1:4 w/v aqueous extracts.


Chemist


Date

H16165 TCL HHE

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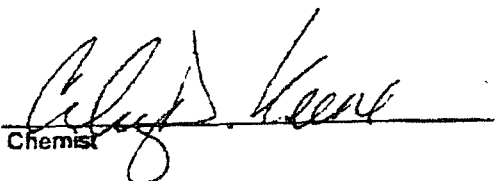
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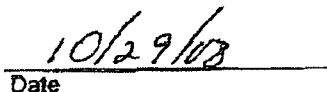
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		(mg/kg)	(mg/kg)	BENZENE (mg/kg)	XYLENES (mg/kg)
ANALYSIS DATE		10/28/08	10/28/08	10/28/08	10/28/08
H16165-1	SP#1 SURFACE	<0.050	<0.050	<0.050	<0.300
H16165-2	SP#1 2' BGS	<0.050	<0.050	<0.050	<0.150
H16165-3	SP#2 SURFACE	<0.050	0.104	0.335	2.37
H16165-4	SP#2 2' BGS	<0.050	<0.050	<0.050	<0.300
H16165-5	SP#3 SURFACE	<0.050	<0.050	<0.050	<0.300
H16165-6	SP#3 5' BGS	<0.050	<0.050	<0.050	<0.300
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Cheryl Keene
Chemist


10/29/08
Date

ANALYTICAL RESULTS FOR

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