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OFFICE DEC - 2 1989
OIL CON. DIV.
DIST. 3

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APPROVED

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Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	<u>0</u>
Distance to an Ephemeral Stream: (Downgradient dry wash greater than ten feet in width)	Less than 100 feet Greater than 100 feet	(10 points) (0 points)	<u>0</u>
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet Greater than 100 feet	(10 points) (0 points)	<u>0</u>
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources)	Yes No	(20 points) (0 points)	<u>0</u>
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet 100 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 8/24/98 Date Completed: 8/26/98

Remediation Method: Excavation X

Approx. cubic yards 1050 CY

(Check all appropriate sections)

Landfarmed X

In situ Bioremediation _____

Other _____

Remediation Location: Onsite X Offsite _____
(i.e. landfarmed onsite,
name and location of
offsite facility)

General Description of Remedial Action: REMOVED CONTAMINATED SOIL USING
EXCAVATOR, SPREAD ON LOCATION IN SOIL FARM

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Pit Bottom - CENTER 4 BANKS N, S, E, W
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) GAS ND PPM
Sample depth 24' DIE ND PPM
Sample date 8/26/98 Sample time 8:30 AM METHOD 8015 m
PID = 18.3 PPM

Sample Results

Soil: Benzene (ppm) N/A Water: Benzene (ppb) N/A

Total BTEX (ppm) N/A Toluene (ppb) N/A

Field Headspace (ppm) 27.0 Ethylbenzene (ppb) N/A

TPH 8015 m (ppm) GAS ND PPM Total Xylenes (ppb) N/A
DIE ND PPM

Groundwater Sample: Yes _____ No X (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 11/24/98 PRINTED NAME SHAWN ADAMS

SIGNATURE [Signature] AND TITLE ENV. CONSULTANT

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON) _____

SIGNED: [Signature] DATE: 11-25-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 10-Sep-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #61
Work Order:	9808058	Client Sample ID:	MW61-200; Pit Floor
Lab ID:	9808058-01A	Matrix:	SOIL
Project:	Pit Remediation	Collection Date:	8/26/98 8:30:00 AM
		COC Record:	4391

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/4/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	8/31/98

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

TECHNOLOGY BLENDING INDUSTRY APPLICATIONS

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 10-Sep-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #61
Work Order:	9808058	Client Sample ID:	MW61-201; 4 Wall Comp
Lab ID:	9808058-02A	Matrix:	SOIL
Project:	Pit Remediation	Collection Date:	8/26/98 8:40:00 AM
		COC Record:	4391

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/4/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	8/31/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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- TECHNOLOGY BECOMING INTEGRATED WITH THE FARMING SECTOR

1 of 1

CONTRACT ENVIRONMENTAL

Daily Site Sheet

Site Name: Martin Whitaker No 61

Date: 8-24-98

Time Started: 11:15

Time Finished: 8:30 8-26-98

Pit starting size: 15x20x4

Pit size when finished: 30x40x24 DEEP

Land farm size: _____

Distance to wash > or < 100': _____

Distance to lake or pond: _____

Distance to private or domestic water source > or < 1000': _____

P.I.D. Readings

North wall: _____

South wall: _____

East wall: _____

West wall: _____

Land farm: _____

Equipment used: PSD, PID EXCAVATOR JAMES KIRBY LINN WILSON

Remarks: Extremely Dirty P.T. Practical Extent on 3 walls + P.T. Floor
2 402 Samples To Lab ~~MWEL-200~~ MWEL-200 P.T. Floor 27.0 PPM
MWEL-201 4 Wall Comp 18.3 PPM.

Site Diagram

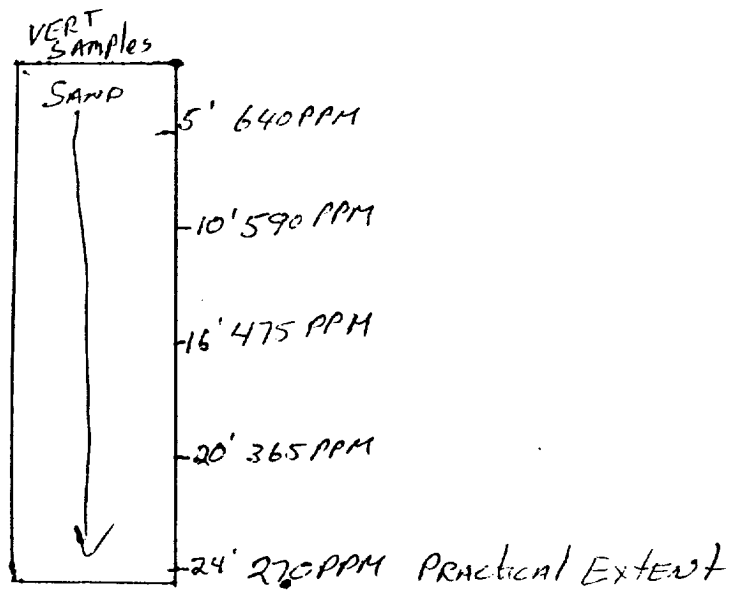


SEP

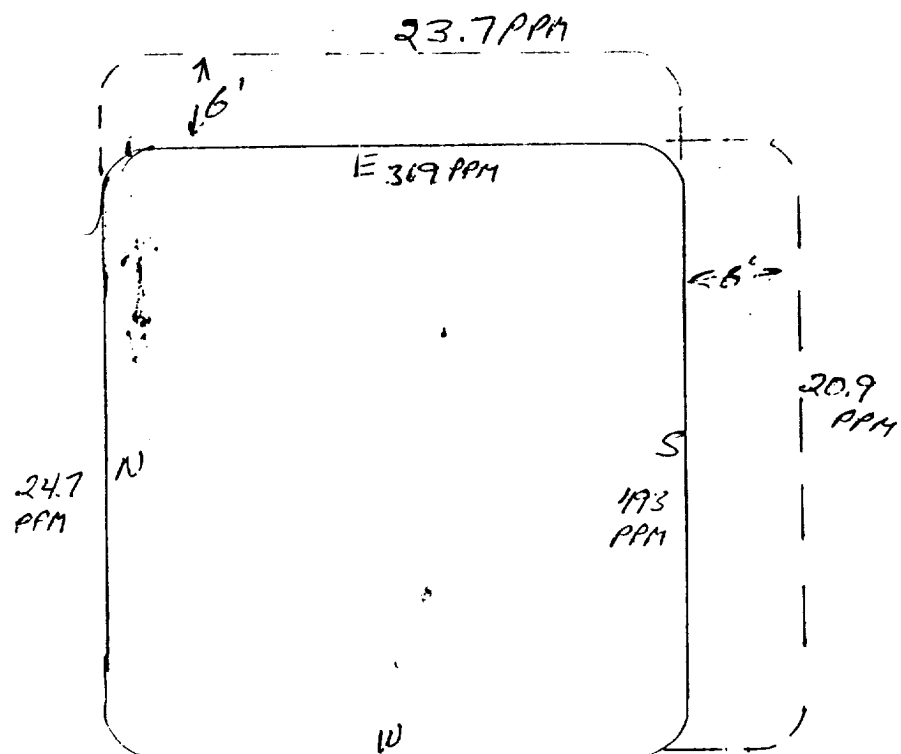


PUMP SACK

*WELL
HEAD



PIT FLOOR MW61-200 27.0 PPM
 4 WALL Comp MW61-201 18.3 PPM



PRACTICAL EXTENT
 15' TO 400 BBL
 STEEL STORAGE TANK

Distribution: V/white – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

SUBMIT TO:
NATURAL RESOURCE
AND OIL & GAS ADMINISTRATION

RECEIVED

DEC - 2 1999

ON-SITE SOIL REMEDIATION REPORT

APPROVED

Operator: ELM RIDGE RESOURCES * Telephone: (505) 326-7099
Address: 312 W. LAPLATA STREET, FARMINGTON, NM 87401
Facility or Well Name: MARTIN WHITTAKER #61 LANDFARM
Location: Unit or Qtr/Qtr Sec NE/NW Sec 21 T 23N R 4W County SANDOVAL
Land Type: _____

Date Remediation Started: 8/24/97 Date Completed: 8/26/97
Remediation Method: Landfarmed X Approx. cubic yards 1050
Composted _____
Other _____

Depth To Groundwater: (pts.) 0
Distance to an Ephemeral Stream (pts.) 0
Distance to Nearest Lake, Playa, or Watering Pond (pts.) 0
Wellhead Protection Area: (pts.) 0
Distance To Surface Water: (pts.) 0

Final Closure Sampling:

Sampling Date: 7/24/98 Time: 2:32

Sample Results:

Field Headspace (ppm) 1.6 PPM

TPH (ppm) GAS - ND Method 8015M
DIE - ND

Other _____

RANKING SCORE (TOTAL POINTS): 0

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 12/22/98 PRINTED NAME SHAWN ADAMS
SIGNATURE Shawn Adams AND TITLE ENV. CONSULTANT

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON) May be used as backfill, if needed.

SIGNED: Karena S. Callado DATE: 22 DEC 98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 07-Aug-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker 61
Work Order:	9807082	Client Sample ID:	MW61-104 M. Whittaker 61 LF
Lab ID:	9807082-05A	Matrix:	SOIL
Project:	Pit Remediation	Collection Date:	7/24/98 2:32:00 PM
		COC Record:	6991

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	Analyst: HR 8/5/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	Analyst: HR 7/29/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING ENVIRONMENT WITH THE ENVIRONMENT

1 of 1

CONTRACT ENVIRONMENTAL

Daily Site Sheet

Site Name: MW 61 Martin Whitaker

Date: 7.24.98

Time Started: 14:10

Time Finished: 14:50

Pit starting size: N/A

Pit size when finished: N/A

Land farm size: 50X75

Distance to wash > or < 100': > 100'

Distance to lake or pond: > 1000'

Distance to private or domestic water source > or < 1000': > 1000'

P.I.D. Readings

North wall: N/A

South wall: N/A

East wall: N/A

West wall: N/A

Land farm: 1.6

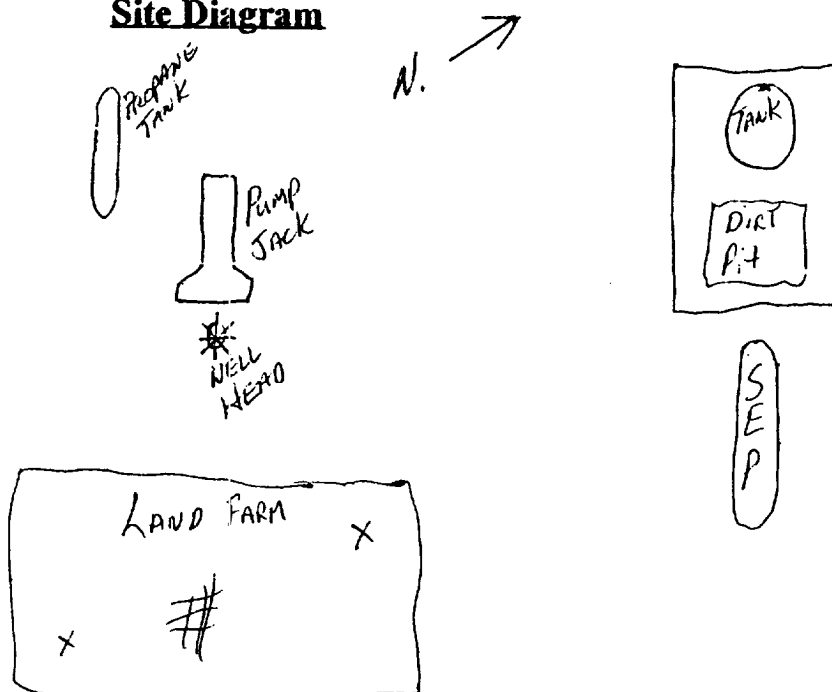
Equipment used: P.S.D. Tractor, P.I.D., James Kirby Lin Wilson

Remarks: TURNED LAND FARM TWO TIMES, TOOK 2 PID SAMPLE READINGS

SAMPLE # MW 61 - 104

Site Diagram

X = Samples



CHAIN OF CUSTODY RECORD

ON SITE

TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Purchase Order No.:		Job No.	
Name: ADAMS			
Company: Contract Environmental Services		Dept.:	
Address: PO Box 3376			
City, State, Zip: Farmington NM 87499			

SEND INVOICE TO		Name: ADAMS		Title:	
Company: Contract Environmental Services		Company:			
Address: PO Box 3376		Mailing Address:			
City, State, Zip: Farmington NM 87499		City, State, Zip:			
Telephone No.:		Telephone No.:		Telefax No.:	

Sampling Location: Jic. Ap. H T2 W1, T2 W3, T1 W3, T1 W3, T2 W3		ANALYSIS REQUESTED	
Sampler: James K.			

SAMPLE IDENTIFICATION	SAMPLE		MATRIX	PRES.	Number of Containers	RESULTS TO	Name
	DATE	TIME					
T2 W1 100	7/24/94	9:35	Soil	W3	1	X	SA
T413-101	"	10:05	"	"	1	X	
T413-102	"	10:07	"	"	1	X	
T413-103	"	10:30	"	"	1	X	
W61-104 W61-105 W61-106 W61-107 W61-108 W61-109 W61-110 W61-111 W61-112 W61-113 W61-114 W61-115 W61-116 W61-117 W61-118 W61-119 W61-120 W61-121 W61-122 W61-123 W61-124 W61-125 W61-126 W61-127 W61-128 W61-129 W61-130 W61-131 W61-132 W61-133 W61-134 W61-135 W61-136 W61-137 W61-138 W61-139 W61-140 W61-141 W61-142 W61-143 W61-144 W61-145 W61-146 W61-147 W61-148 W61-149 W61-150 W61-151 W61-152 W61-153 W61-154 W61-155 W61-156 W61-157 W61-158 W61-159 W61-160 W61-161 W61-162 W61-163 W61-164 W61-165 W61-166 W61-167 W61-168 W61-169 W61-170 W61-171 W61-172 W61-173 W61-174 W61-175 W61-176 W61-177 W61-178 W61-179 W61-180 W61-181 W61-182 W61-183 W61-184 W61-185 W61-186 W61-187 W61-188 W61-189 W61-190 W61-191 W61-192 W61-193 W61-194 W61-195 W61-196 W61-197 W61-198 W61-199 W61-200 W61-201 W61-202 W61-203 W61-204 W61-205 W61-206 W61-207 W61-208 W61-209 W61-210 W61-211 W61-212 W61-213 W61-214 W61-215 W61-216 W61-217 W61-218 W61-219 W61-220 W61-221 W61-222 W61-223 W61-224 W61-225 W61-226 W61-227 W61-228 W61-229 W61-230 W61-231 W61-232 W61-233 W61-234 W61-235 W61-236 W61-237 W61-238 W61-239 W61-240 W61-241 W61-242 W61-243 W61-244 W61-245 W61-246 W61-247 W61-248 W61-249 W61-250 W61-251 W61-252 W61-253 W61-254 W61-255 W61-256 W61-257 W61-258 W61-259 W61-260 W61-261 W61-262 W61-263 W61-264 W61-265 W61-266 W61-267 W61-268 W61-269 W61-270 W61-271 W61-272 W61-273 W61-274 W61-275 W61-276 W61-277 W61-278 W61-279 W61-280 W61-281 W61-282 W61-283 W61-284 W61-285 W61-286 W61-287 W61-288 W61-289 W61-290 W61-291 W61-292 W61-293 W61-294 W61-295 W61-296 W61-297 W61-298 W61-299 W61-300 W61-301 W61-302 W61-303 W61-304 W61-305 W61-306 W61-307 W61-308 W61-309 W61-310 W61-311 W61-312 W61-313 W61-314 W61-315 W61-316 W61-317 W61-318 W61-319 W61-320 W61-321 W61-322 W61-323 W61-324 W61-325 W61-326 W61-327 W61-328 W61-329 W61-330 W61-331 W61-332 W61-333 W61-334 W61-335 W61-336 W61-337 W61-338 W61-339 W61-340 W61-341 W61-342 W61-343 W61-344 W61-345 W61-346 W61-347 W61-348 W61-349 W61-350 W61-351 W61-352 W61-353 W61-354 W61-355 W61-356 W61-357 W61-358 W61-359 W61-360 W61-361 W61-362 W61-363 W61-364 W61-365 W61-366 W61-367 W61-368 W61-369 W61-370 W61-371 W61-372 W61-373 W61-374 W61-375 W61-376 W61-377 W61-378 W61-379 W61-380 W61-381 W61-382 W61-383 W61-384 W61-385 W61-386 W61-387 W61-388 W61-389 W61-390 W61-391 W61-392 W61-393 W61-394 W61-395 W61-396 W61-397 W61-398 W61-399 W61-400 W61-401 W61-402 W61-403 W61-404 W61-405 W61-406 W61-407 W61-408 W61-409 W61-410 W61-411 W61-412 W61-413 W61-414 W61-415 W61-416 W61-417 W61-418 W61-419 W61-420 W61-421 W61-422 W61-423 W61-424 W61-425 W61-426 W61-427 W61-428 W61-429 W61-430 W61-431 W61-432 W61-433 W61-434 W61-435 W61-436 W61-437 W61-438 W61-439 W61-440 W61-441 W61-442 W61-443 W61-444 W61-445 W61-446 W61-447 W61-448 W61-449 W61-450 W61-451 W61-452 W61-453 W61-454 W61-455 W61-456 W61-457 W61-458 W61-459 W61-460 W61-461 W61-462 W61-463 W61-464 W61-465 W61-466 W61-467 W61-468 W61-469 W61-470 W61-471 W61-472 W61-473 W61-474 W61-475 W61-476 W61-477 W61-478 W61-479 W61-480 W61-481 W61-482 W61-483 W61-484 W61-485 W61-486 W61-487 W61-488 W61-489 W61-490 W61-491 W61-492 W61-493 W61-494 W61-495 W61-496 W61-497 W61-498 W61-499 W61-500 W61-501 W61-502 W61-503 W61-504 W61-505 W61-506 W61-507 W61-508 W61-509 W61-510 W61-511 W61-512 W61-513 W61-514 W61-515 W61-516 W61-517 W61-518 W61-519 W61-520 W61-521 W61-522 W61-523 W61-524 W61-525 W61-526 W61-527 W61-528 W61-529 W61-530 W61-531 W61-532 W61-533 W61-534 W61-535 W61-536 W61-537 W61-538 W6							

Distribution:	White - On Site	Yellow - LAB	Pink - Sampler	Goldenrod - Client
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